



Hochschulbibliografie 2020



Hochschulbibliografie der Medizinischen Hochschule Hannover

Berichtsjahr 2020

erstellt in der Bibliothek
der Medizinischen Hochschule Hannover

MHH-Hochschulbibliografie 2020

Sehr geehrte Damen und Herren,

wie jedes Jahr möchten wir Ihnen auch dieses Jahr nun bereits mit der dreizehnten Jahreskumulation der Publikationen von MHH-Autoren, die im Rahmen der Datenerhebung zur Berechnung der leistungsorientierten Mittelvergabe (LOM) der Bibliothek gemeldet wurden, die Hochschulbibliografie des Jahres 2020 vorlegen.

Die Ihnen hier vorliegende Liste des Berichtszeitraumes 2020 enthält auch Publikationen mit Drucklegung des Jahres 2021 sofern die elektronische Erstveröffentlichung bereits 2020 stattfand.

Neben der für die LOM-Berechnung relevanten Publikationen enthält die Sammlung auch die an die Bibliothek abgelieferten MHH-Hochschulschriften (Habilitationen, Dissertationen etc.) sowie weitere Publikationsarten, die für die LOM-Berechnung nicht herangezogen werden, wie Case reports, Comments, Abstracts, Poster und Vorträge.

Die Sortierung nach Abteilungen folgt der Darstellung des Gliederungsplans der MHH. Die Veröffentlichungen sind den Abteilungen zugeordnet, in denen sie entstanden sind bzw. für die die LOM-Berechnung erfolgt. Die Abteilungszuordnung und die Auswahl des Publikationstyps wurde von den Meldenden in den jeweiligen Abteilungen vorgenommen.

Die gesamte Datenbank umfasst im Jahr 2020 inzwischen fast 39.061 Einträge. Der Verlauf der Einträge stellt sich über die Jahre 2008 bis 2020 wie folgt dar:

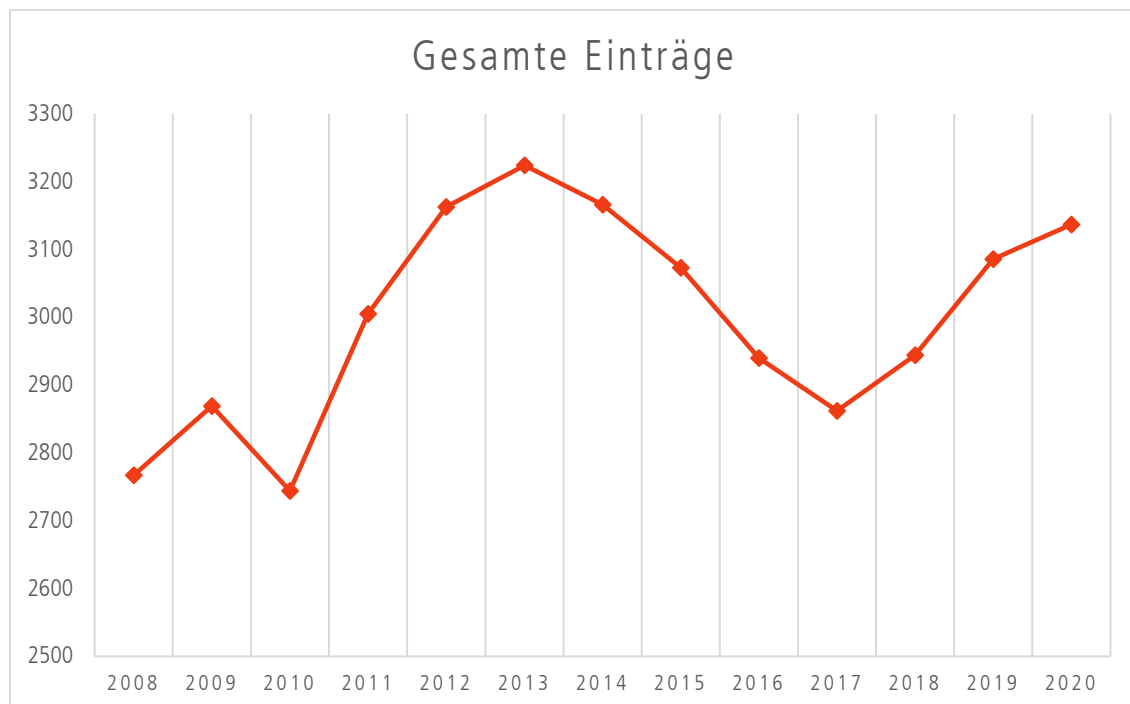


Abb. 1: Gesamte Einträge 2008 - 2020

Nachdem die Anzahl an Einträgen seit dem Jahr 2010 deutlich stiegen, ließ sich seit 2013 eine deutliche Abnahme an Einträgen verzeichnen. Die Anzahl an Einträgen nahmen seit 2017 jedoch wieder merklich zu.

Publikationsarten im Jahr 2020

Die Verteilung auf die verschiedenen Publikationsarten stellt sich im Jahr 2020 wie folgt dar:

Tab. 1: Publikationsarten 2020

Publikationsarten	2020
Zeitschriftenliteratur	
Originalpublikationen	1839
Übersichten	278
Letter	46
Comments	17
Editorials	67
Case Report	52
Leitlinie von Fachgesellschaften	35
Kongressbeiträge	
Vorträge	6
Abstracts	156
Poster	8
Hochschulschriften	
Dissertationen	377
Habilitationen	29
Masterarbeiten	43
Diplomarbeiten	0
Bachelorarbeiten	6
Buchveröffentlichungen	
Buchbeiträge, Monografien	100
Herausgeberschaften	8

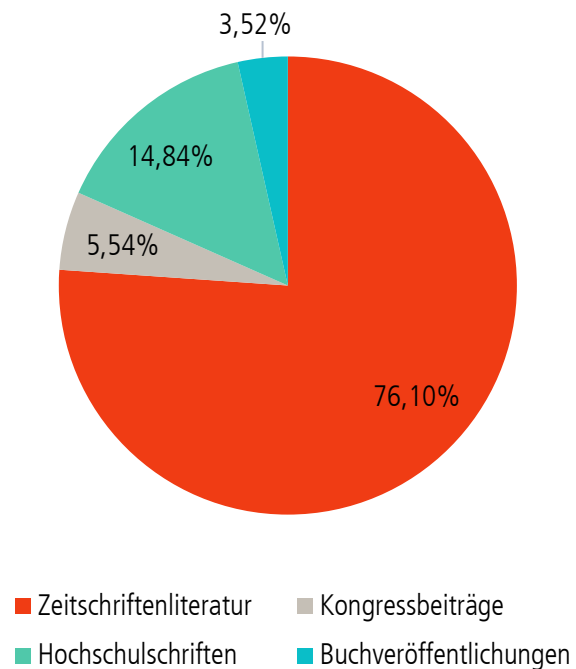


Abb. 2: Publikationsarten 2020

Einen großen Teil der Einträge nimmt die Zeitschriftenliteratur mit 76,10 % ein. Darauf folgend die Hochschulschriften mit 14,84 %. Buchveröffentlichungen machen 3,52 % der Einträge aus und Kongressbeiträge 5,54 %.

Publikationsarten Verteilung

Den Verlauf der Verteilung dieser verschiedenen Publikationsarten zwischen den Jahren 2008 bis 2020 stellt sich wie folgt dar:

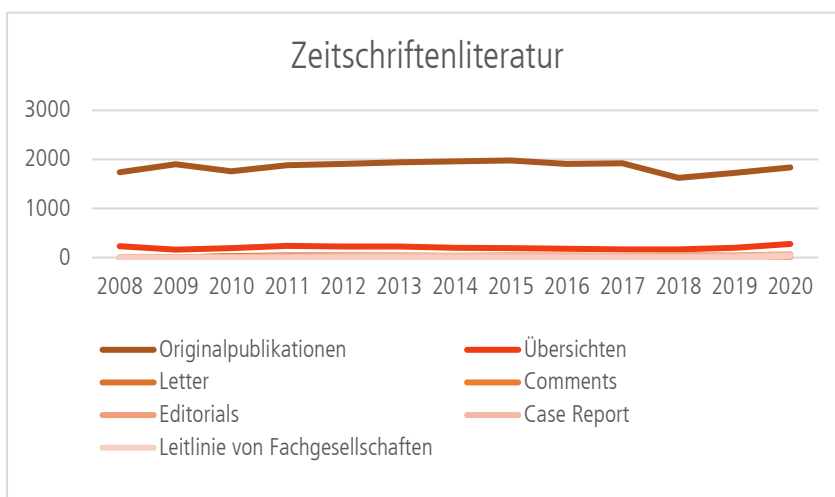


Abb. 3: Zeitschriftenliteratur 2008 - 2020

Die Verteilung der Zeitschriftenliteratur zeigt über die letzten 13 Jahre kaum Veränderungen. Lediglich bei den Originalpublikationen ließ sich im Jahr 2017 eine Abwärtstendenz erkennen, welche im Jahr 2019 gestoppt werden konnte und auch im Jahr 2020 steigende Tendenzen zeigt.

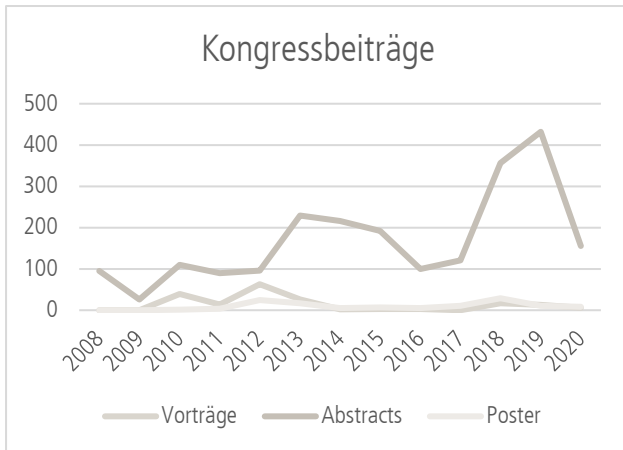


Abb. 4: Kongressbeiträge 2008 - 2020

Auch die Verteilung der Vorträge sowie Poster zeigt über die letzten Jahre kaum Veränderungen. Indessen die Verteilung der Abstracts über die letzten 13 Jahre schwankt. Nach dem Abwärtstrend im Jahr 2014 ließ sich ab dem Jahr 2017 ein deutlicher Anstieg verzeichnen, welcher im Jahr 2020 jedoch wieder einbrach.

Der Anstieg im Jahr 2019 lässt sich damit begründen, dass in diesem Jahr von Seiten der Bibliothek darum gebeten wurde, alle Abstracts des letzten Jahres zu melden.

Desgleichen zeigt auch die Verteilung der Hochschulschriften einen konstanten Verlauf. Einzig bei den Dissertationen lässt sich seit 2019 ein leichter Anstieg verzeichnen.

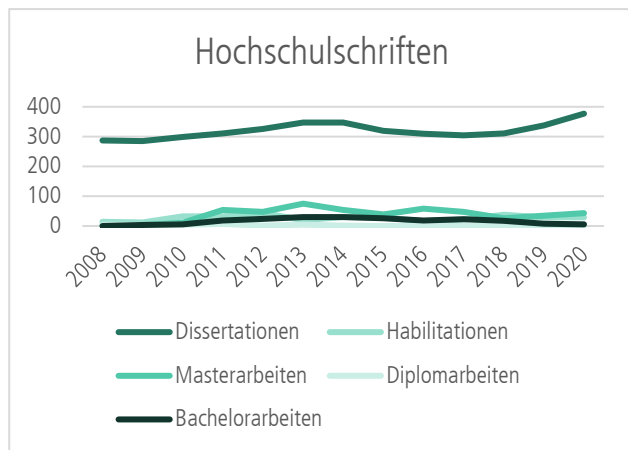


Abb. 5: Hochschulschriften 2008 - 2020

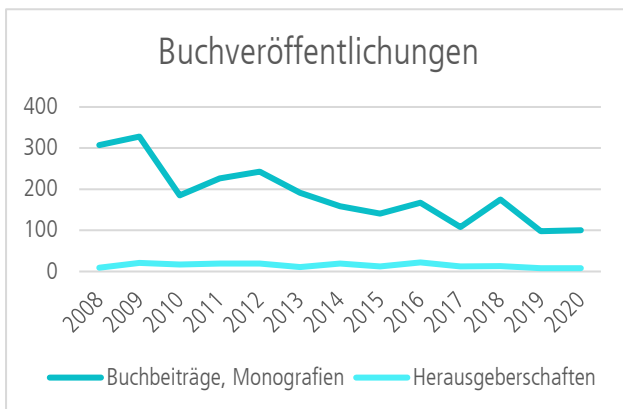


Abb. 6: Buchveröffentlichungen 2008 - 2020

Herausgeberschaften zeigen bereits seit dem Beginn der Datenerhebung der Publikationen von MHH-Autoren im Jahr 2008 einen konstanten Verlauf. Hingegen der Verlauf der Buchbeiträge sowie Monografien seit Beginn an schwankt.

Während alle in der Hochschulbibliografie verzeichneten Publikationen von der Bibliothek im Rahmen des Datentransfers und der Verifikation in verschiedenen Datenbanken geprüft wurden, entstammen die Zuordnungen zu einem Publikationstyp sowie der beteiligten Abteilungen den Publikationsmeldungen an die Bibliothek.

Zeitschriften

Die folgende Übersicht zeigt eine Wortwolke der im Jahr 2020 am häufigsten zur Publikation genutzten Zeitschriften unabhängig vom Publikationstyp:

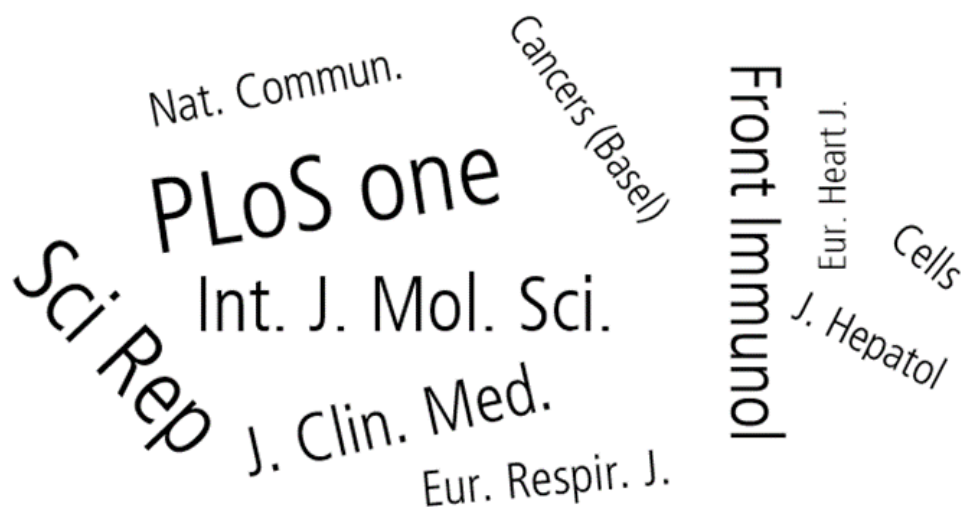


Abb. 7: Häufigst genutzte Zeitschriften zur Publikation 2020

Im Rahmen der Datenerfassung für die Hochschulbibliografie werden auch Informationen erfasst, die für die LOM-Berechnung von Relevanz sind. Dazu gehören der Impact Faktor sowie Informationen über weibliche MHH-Autoren:

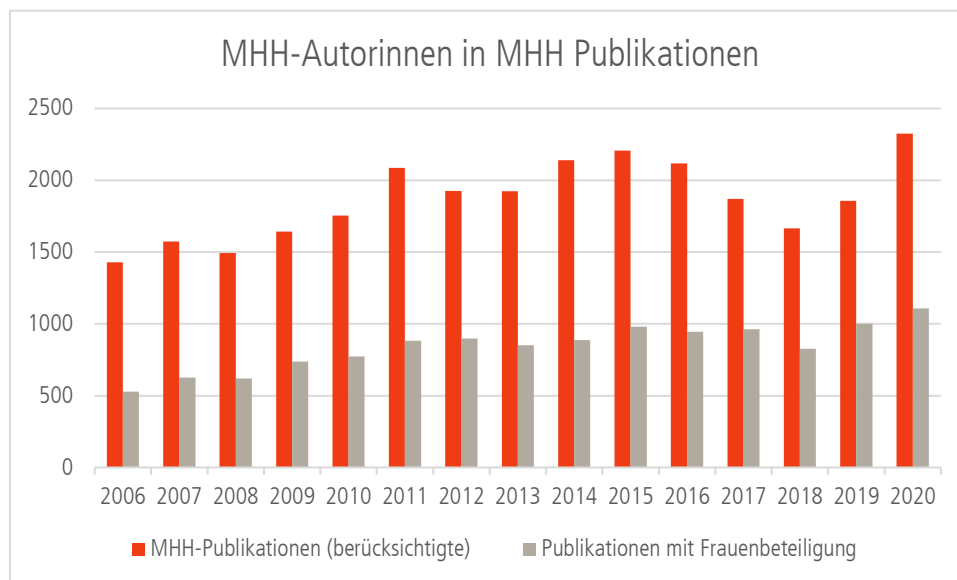


Abb. 8: Publikationen mit Frauenbeteiligung

Der Anteil an Publikationen mit Frauenbeteiligung schwankt minimal über den Verlauf der Jahre, grundsätzlich lässt sich jedoch ein Anstieg der Beteiligung von Frauen an Publikationen verzeichnen.

Open Access

Die MHH hat Ihren Anteil an Open Access Publikationen über die vergangenen Jahre stark ausbauen können. Unabhängig vom Publikationstyp erscheinen ca. 35% aller Publikationen Open Access:

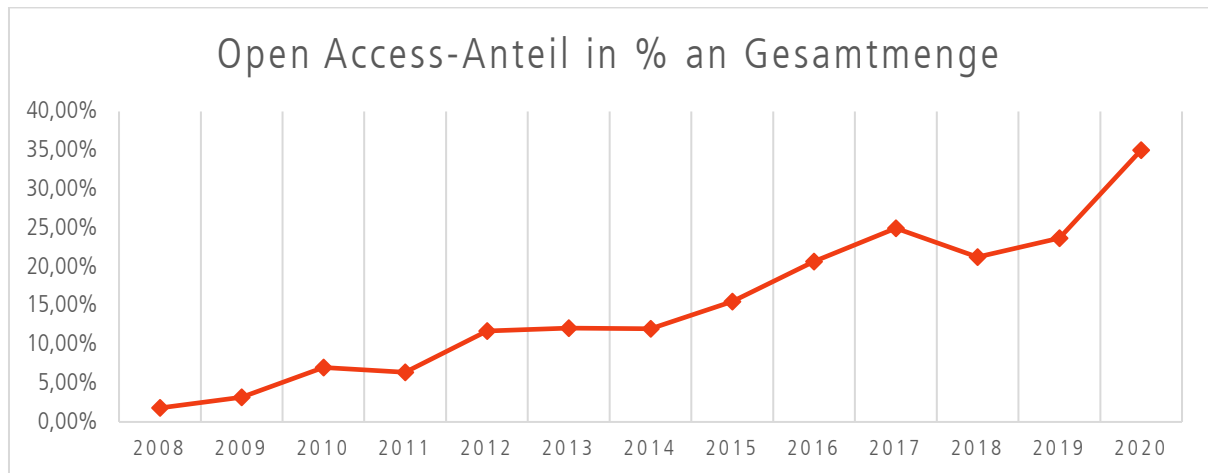


Abb. 9: Open Access-Anteil der MHH Publikationen 2008 - 2020

Trotz des Einbruches im Jahr 2018 lässt sich seit dem Jahr 2019 ein Aufwärtstrend der Open Access veröffentlichten Publikationen in der MHH erkennen. Grundsätzlich ist der Trend seit 2008 eher steigend. Vergleichend mit den Open Access Output von Publikationen in Deutschland lässt sich der steigende Trend sowohl in der MHH als auch generell in Deutschland verzeichnen. Die Daten lassen sich jedoch nur bedingt miteinander vergleichen, da sich die Grafik der Untersuchung „Open Access in Deutschland 2005 – 2019“ auf den Open-Access Anteil aller Fachgebiete in Deutschland bezieht. Allerdings besagt diese Untersuchung zudem, dass durchschnittlich 19% der deutschen Publikationen des Fachgebietes „Medizin und Gesundheitswissenschaften“ zwischen den Jahren 2005 bis 2019 Open Access veröffentlicht wurden.¹ In der MHH liegt dieser Wert bei durchschnittlich 15% für die Jahre 2008 bis 2020.

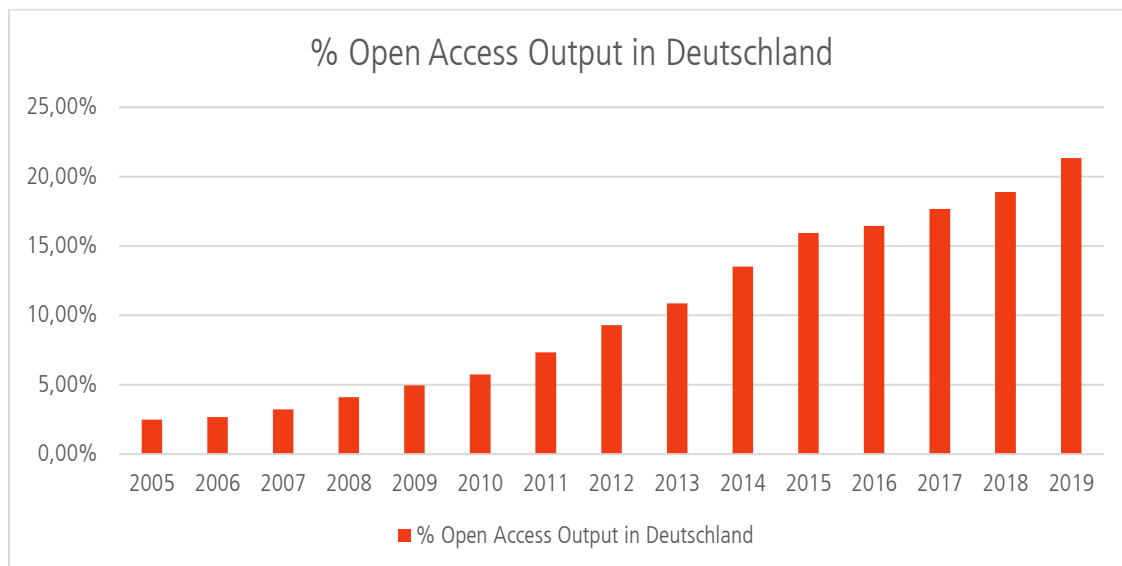


Abb. 10: % Open Access Output von Publikationen in Deutschland 2005 - 2019¹

¹ Barbers, I., and Pollack, P. (2021). Open Access in Deutschland 2005 - 2019.

Die folgende Darstellung zeigt Ihnen die Anzahl der Open Access Veröffentlichungen bei den, in der MHH, meist genutzten Verlagen. Besonders bei dem Verlag MDPI nahm die Rate an Open Access Veröffentlichungen im Jahr 2020 deutlich zu. Sowohl bei dem Verlag BioMed Central als auch bei den Verlagen Frontiers Research Foundation, Elsevier und PLoS gab es ein weiteres Wachstum an Open Access Veröffentlichungen der MHH.

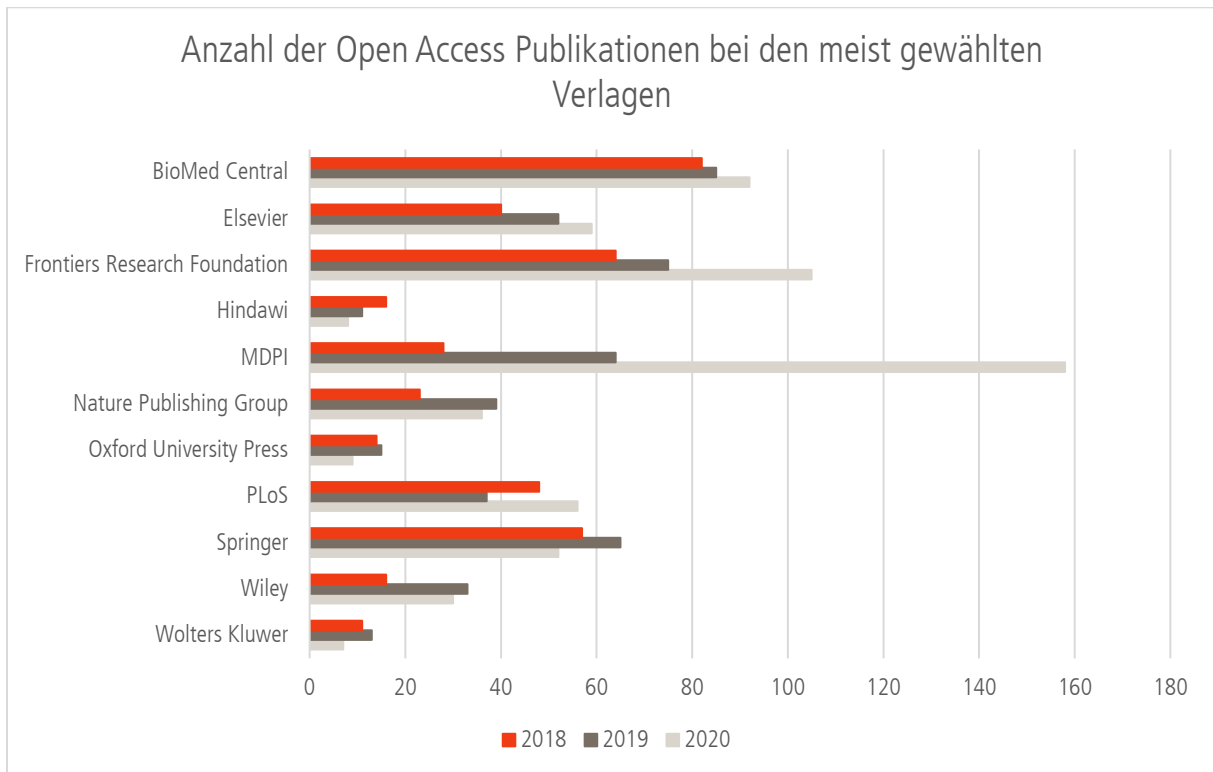


Abb. 11: Open Access Veröffentlichungen bei meist gewählten Verlagen

Bei den im Jahr 2020 Open Access veröffentlichten Publikationen haben bei den meist gewählten Verlagen die Verlage MDPI, Frontiers und BioMed Central den größten Anteil.

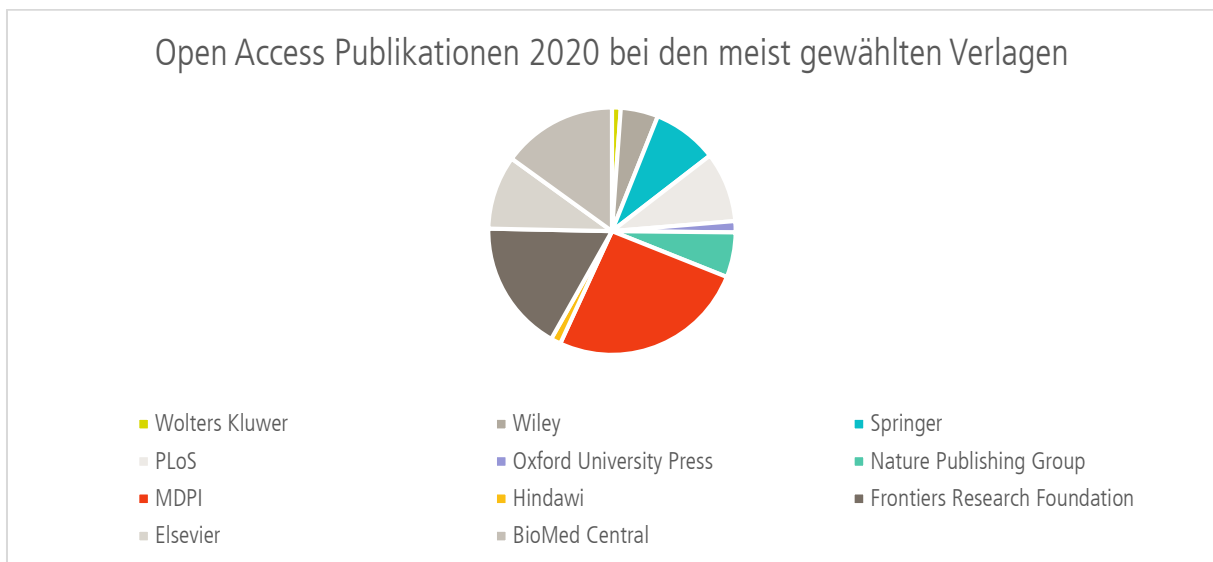


Abb. 12: Open Access Veröffentlichungen bei meist gewählten Verlagen im Jahr 2020

Mit ausschlaggebend für die Publikation in einer Zeitschrift ist für viele Autoren der Impact Faktor. Folgende Grafik zeigt die Zeitschriften mit den höchsten Impact Faktoren für die MHH-Veröffentlichungen der letzten vier Jahre.

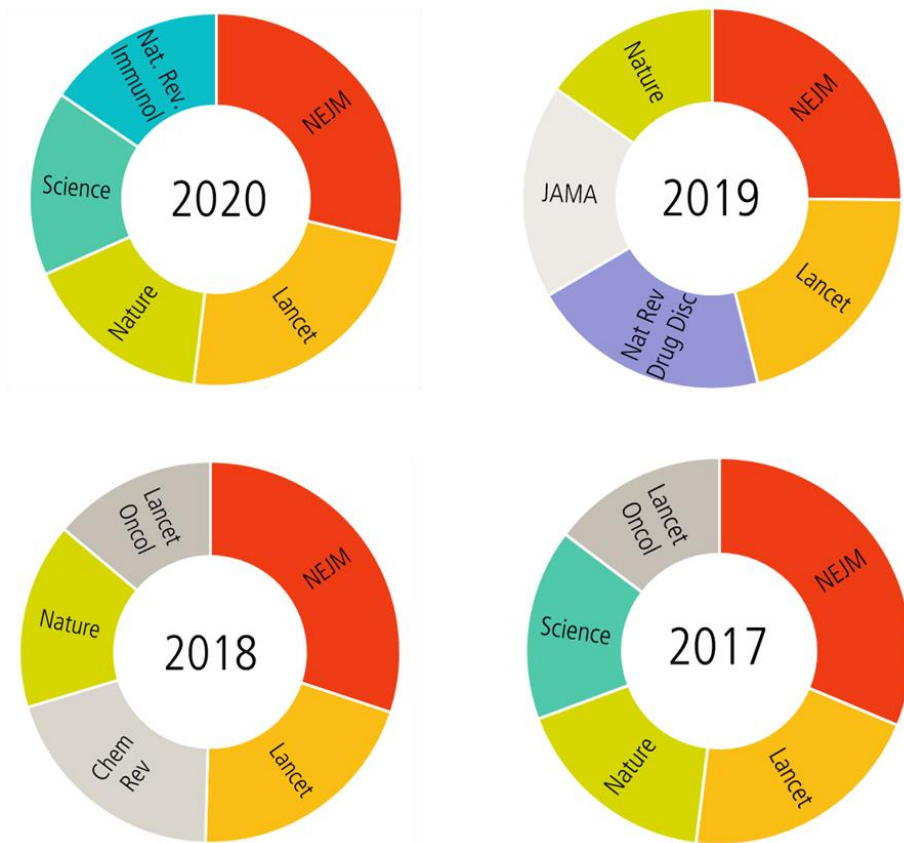


Abb. 13: Zeitschriften mit den höchsten Impact Faktoren

Im Zeitraum der letzten vier Jahre wurden konstant die Zeitschriften NEJM, Lancet und Nature mit hohem Impact Faktoren zum Publizieren verwendet.

Die folgende Grafik zeigt für die MHH-Veröffentlichungen der Jahre 2012 bis 2020, dass sich die Impact Faktoren von Open Access Zeitschriften und lizenzbasierten Zeitschriften im Mittel ein „Kopf-an-Kopf-Rennen“ liefern.

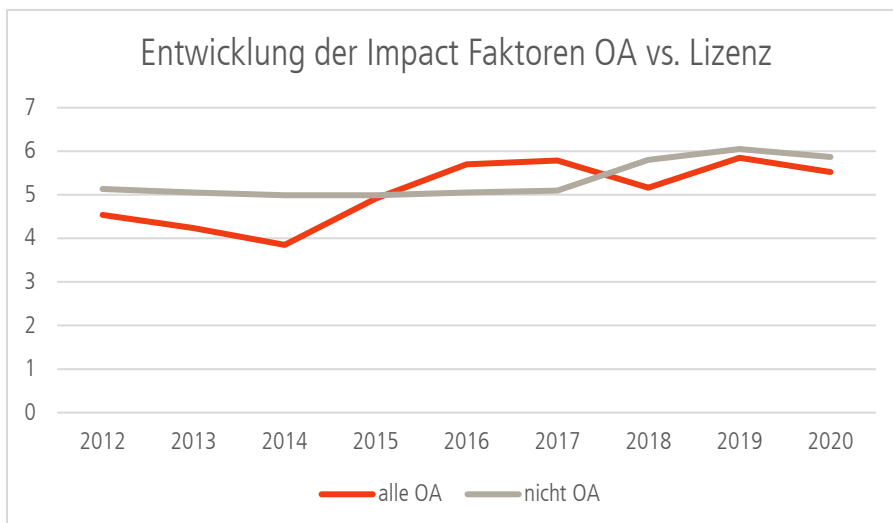


Abb. 14: Entwicklung Impact Faktoren OA vs. Lizenz 2012 - 2020

Auffällig ist hier aber, dass Open Access Publikationen in Lizenz-Journals (hybrid Open Access) im Jahr 2019 von einem überdurchschnittlichen Impact Faktor profitiert haben:

Tab. 2: Mittlere Impact Faktoren der Jahre 2018 - 2020

Mittlere Impact Faktoren	2018	2019	2020
Open-Content-Lizenz			
alle OA	5,16	5,85	5,52
nicht OA	5,80	6,05	5,87
Gold	5,00	5,23	5,16
hybrid	6,60	12,21	6,84

Weitere Informationen

Diese statistischen Auswertungen der bibliografischen Daten sind nur Momentaufnahmen. Die Bibliografie wächst nicht nur mit neuen Berichtszeiträumen, sondern auch retrospektiv, durch Nachmeldungen und Korrekturen an Daten vergangener Jahrgänge.

Ergänzend sei an dieser Stelle an die tagesaktuelle und jahrgangsübergreifende Datenbankversion der Hochschulbibliografie erinnert. Sie ist über das [Internet](#) zugänglich. Hier sind auch komplexere Recherchen, Datenexport, bibliografische Aufbereitung etc. für die Öffentlichkeit möglich. Einen schnellen Einstieg bietet [PuDalys](#). Das Publikations-Datenbank und Analyse-Tool der MHH-Bibliothek bietet einen übersichtlichen Zugriff auf die hochschulbibliografischen Daten. Darüber hinaus sind hier auch verschiedene Auswertungen (z.B. nach hochschulinternen Kooperationen etc.) möglich.

Weitere Informationen zum Komplex Hochschulbibliografie finden Sie auf der [Homepage](#) der MHH-Bibliothek.

Die Bibliothek dankt allen Mitarbeiterinnen und Mitarbeitern in den Abteilungen für ihre Kooperation nicht nur bei den Meldungen neuer Publikationen, sondern auch für die Hinweise zu einzelnen Einträgen oder der generellen Nutzbarkeit der Bibliografie.

MHH-Bibliothek im Dezember 2021

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Kliniken/Institute der Sektion I

Zentrum Anatomie und Zellbiologie

Institut für Funktionelle und Angewandte Anatomie – 4120

Originalpublikation

Ahrendt, N., Steingrüber, T., Rajces, A., Lopez-Rodriguez, E., Eisenberg, T., Magnes, C., Madeo, F., Sedej, S., Schmiedl, A., Ochs, M., Mühlfeld, C., Schipke, J. (2020). Spermidine supplementation and voluntary activity differentially affect obesity-related structural changes in the mouse lung *Am J Physiol Lung Cell Mol Physiol* *319*,L312-L324. DOI: 10.1152/ajplung.00423.2019

Albert, K., Krischer, J.M., Pfaffenroth, A., Wilde, S., Lopez-Rodriguez, E., Braun, A., Smith, B.J., Knudsen, L. (2020). Hidden Microatelectases Increase Vulnerability to Ventilation-Induced Lung Injury. *Front Physiol* *11*,530485. DOI: 10.3389/fphys.2020.530485

Auxerre-Plantie, E., Nielsen, T., Grunert, M., Olejniczak, O., Perrot, A., Özcelik, C., Harries, D., Matinmehr, F., Dos Remedios, C., Mühlfeld, C., Kraft, T., Bodmer, R., Vogler, G., Sperling, S.R. (2020). Identification of MYOM2 as a candidate gene in hypertrophic cardiomyopathy and Tetralogy of Fallot, and its functional evaluation in the Drosophila heart *Dis Model Mech* *13*,DOI: 10.1242/dmm.045377

Beckers, A., Adis, C., Schuster-Gossler, K., Tveriakhina, L., Ott, T., Fuhl, F., Hegermann, J., Boldt, K., Serth, K., Rachev, E., Alten, L., Kremmer, E., Ueffing, M., Blum, M., Gossler, A. (2020). The FOXJ1 target Cfap206 is required for sperm motility, mucociliary clearance of the airways and brain development. *Development* *147*,dev188052. DOI: 10.1242/dev.188052

Boesch, M., Baty, F., Brutsche, M.H., Tamm, M., Roux, J., Knudsen, L., Gazdhar, A., Geiser, T., Khan, P., Hostettler, K.E. (2020). Transcriptomic profiling reveals disease-specific characteristics of epithelial cells in idiopathic pulmonary fibrosis *Respir Res* *21*,165. DOI: 10.1186/s12931-020-01414-z

Brinkert, K., Hedtfeld, S., Burhop, A., Gastmeier, R., Gad, P., Wedekind, D., Kloth, C., Roths Schuh, J., Lachmann, N., Hetzel, M., Jirno, A.C., Lopez-Rodriguez, E., Brandenberger, C., Hansen, G., Schambach, A., Ackermann, M., Tümmeler, B., Munder, A. (2021). Rescue from *Pseudomonas aeruginosa* airway infection via stem cell transplantation *Mol Ther* *29*,1324-1334. DOI: 10.1016/j.jymthe.2020.12.003

Dillard, K.J., Ochs, M., Niskanen, J.E., Arumilli, M., Donner, J., Kyöstila, K., Hytönen, M.K., Anttila, M., Lohi, H. (2020). Recessive missense LAMP3 variant associated with defect in lamellar body biogenesis and fatal neonatal interstitial lung disease in dogs *PLoS Genet* *16*e1008651. DOI: 10.1371/journal.pgen.1008651

Duerr, J., Leitz, D.H.W., Szczygiel, M., Dvornikov, D., Fraumann, S.G., Kreutz, C., Zadora, P.K., Seyhan Agircan, A., Konietzke, P., Engelmann, T.A., Hegermann, J., Mulugeta, S., Kawabe, H., Knudsen, L., Ochs, M., Rotin, D., Muley, T., Kreuter, M., Herth, F.J.F., Wielpütz, M.O., Beers, M.F., Klingmüller, U., Mall, M.A. (2020). Conditional deletion of Nedd4-2 in lung epithelial cells causes progressive pulmonary fibrosis in adult mice *Nat Commun* *11*,2012. DOI: 10.1038/s41467-020-15743-6

Grothausmann, R., Labode, J., Hernandez-Cerdan, P., Haberthür, D., Hlushchuk, R., Lobachev, O., Brandenberger, C., Gie, A.G., Salaets, T., Toelen, J., Wagner, W.L., Mühlfeld, C. (2021). Combination of microCT and light microscopy for generation-specific stereological analysis of pulmonary arterial branches: a proof-of-concept study *Histochem Cell Biol* *155*,227-239. DOI: 10.1007/s00418-020-01946-x

Jansing, J.C., Fiedler, J., Pich, A., Viereck, J., Thum, T., Mühlfeld, C., Brandenberger, C. (2020). miR-21-KO Alleviates Alveolar Structural Remodeling and Inflammatory Signaling in Acute Lung Injury *Int J Mol Sci* *21*,E822. DOI: 10.3390/ijms21030822

Kang, M.H., van Lieshout, L.P., Xu, L., Domm, J.M., Vadivel, A., Renesme, L., Mühlfeld, C., Hurskainen, M., Mizikova, I., Pei, Y., van Vloten, J.P., Thomas, S.P., Milazzo, C., Cyr-Depauw, C., Whittsett, J.A., Noguee, L.M., Wootton, S.K., Thebaud, B. (2020). A lung tropic AAV vector improves survival in a mouse model of surfactant B deficiency *Nat Commun* *11*,3929. DOI: 10.1038/s41467-020-17577-8

Koop, C.F.A., Marschollek, M., Schmiedl, A., Proskynitopoulos, P.J., Behrends, M. (2021). Does an Audiovisual Dissection Manual Improve Medical Students' Learning in the Gross Anatomy Dissection Course? *Anat Sci Educ* *14*,615-628. DOI: 10.1002/ase.2012

Krempaska, K., Barnowski, S., Gavini, J., Hobi, N., Ebener, S., Simillion, C., Stokes, A., Schliep, R., Knudsen, L., Geiser, T.K., Funke-Chambour, M. (2020). Azithromycin has enhanced effects on lung fibroblasts from idiopathic pulmonary fibrosis (IPF) patients compared to controls [corrected *Respir Res* *21*,25. DOI: 10.1186/s12931-020-1275-8

- Krischer, J.M., Albert, K., Pfaffenroth, A., Lopez-Rodriguez, E., Ruppert, C., Smith, B.J., Knudsen, L. (2021). Mechanical ventilation-induced alterations of intracellular surfactant pool and blood-gas barrier in healthy and pre-injured lungs *Histochem Cell Biol* *155*,183-202. DOI: 10.1007/s00418-020-01938-x
- Lobachev, O. (2020). The Tempest in a Cubic Millimeter: Image-Based Refinements Necessitate the Reconstruction of 3D Microvasculature From a Large Series of Damaged Alternately-Stained Histological Sections. *IEEE Access* *8*,13489-13506. DOI: 10.1109/ACCESS.2020.2965885
- Ljutenski, S., Erfurt, P., Ochs, M., Lenarz, T. (2020). Reprint of Corrosion casting of the temporal bone: Review of the technique *Ann Anat* *230*,151518. DOI: 10.1016/j.aanat.2020.151518
- Mirastschijski, U., Schwenke, C., Schwab, I., Buchhorn, A., Schmiedl, A. (2020). Midline raphe scroti artery flap for penile shaft reconstruction. *Plastic and Aesthetic Research* *7*,45-45. DOI: 10.20517/2347-9264.2020.44
- Mühlfeld, C., Pfeiffer, C., Schneider, V., Bornemann, M., Schipke, J. (2021). Voluntary activity reverses spermidine-induced myocardial fibrosis and lipid accumulation in the obese male mouse *Histochem Cell Biol* *155*,75-88. DOI: 10.1007/s00418-020-01926-1
- Mühlfeld, C., Wrede, C., Molnar, V., Rajces, A., Brandenberger, C. (2021). The plate body: 3D ultrastructure of a facultative organelle of alveolar epithelial type II cells involved in SP-A trafficking *Histochem Cell Biol* *155*,261-269. DOI: 10.1007/s00418-020-01912-7
- Muller, H., Schmiedl, A., Weiss, C., Ai, M., Jung, S., Renner, M. (2020). DMBT1 is upregulated in lung epithelial cells after hypoxia and changes surfactant ultrastructure. *Pediatr Pulmonol* *55*,2964-2969. DOI: 10.1002/ppul.25018
- Niehaus, M., Straube, H., Künzler, P., Rugen, N., Hegermann, J., Giavalisco, P., Eubel, H., Witte, C.P., Herde, M. (2020). Rapid Affinity Purification of Tagged Plant Mitochondria (Mito-AP) for Metabolome and Proteome Analyses *Plant Physiol* *182*,1194-1210. DOI: 10.1104/pp.19.00736
- Ruwisch, J., Sehmeyer, K., Roldan, N., Garcia-Alvarez, B., Perez-Gil, J., Weaver, T.E., Ochs, M., Knudsen, L., Lopez-Rodriguez, E. (2020). Air Space Distension Precedes Spontaneous Fibrotic Remodeling and Impaired Cholesterol Metabolism in the Absence of Surfactant Protein C. *Am J Respir Cell Mol Biol* *62*,466-478. DOI: 10.1165/rcmb.2019-0358OC
- Schimmel, K., Jung, M., Foinquinos, A., Jose, G.S., Beaumont, J., Bock, K., Grote-Levi, L., Xiao, K., Bär, C., Pfanne, A., Just, A., Zimmer, K., Ngoy, S., Lopez, B., Ravassa, S., Samolovac, S., Janssen-Peters, H., Remke, J., Scherf, K., Dangwal, S., Piccoli, M.T., Kleemiss, F., Kreutzer, F.P., Kenneweg, F., Leonardy, J., Hobuss, L., Santer, L., Do, Q.T., Geffers, R., Braesen, J.H., Schmitz, J., Brandenberger, C., Muller, D.N., Wilck, N., Kaefer, V., Bahre, H., Batkai, S., Fiedler, J., Alexander, K.M., Wertheim, B.M., Fisch, S., Liao, R., Diez, J., Gonzalez, A., Thum, T. (2020). Natural Compound Library Screening Identifies New Molecules for the Treatment of Cardiac Fibrosis and Diastolic Dysfunction. *Circulation* *141*,751-767. DOI: 10.1161/CIRCULATIONAHA.119.042559
- Schipke, J., Jütte, D., Brandenberger, C., Autilio, C., Perez-Gil, J., Bernhard, W., Ochs, M., Mühlfeld, C. (2021). Dietary Carbohydrates and Fat Induce Distinct Surfactant Alterations in Mice *Am J Respir Cell Mol Biol* *64*,379-390. DOI: 10.1165/rcmb.2020-0335OC
- Schmiedl, A., Bokel, K., Huhn, V., Ionescu, L., Zscheppang, K., Dammann, C.E.L. (2020). Bone marrow stem cells accelerate lung maturation and prevent the LPS-induced delay of morphological and functional fetal lung development in the presence of ErbB4 *Cell Tissue Res* *380*,547-564. DOI: 10.1007/s00441-019-03145-0
- Schneider, J.P., Wrede, C., Mühlfeld, C. (2020). The Three-Dimensional Ultrastructure of the Human Alveolar Epithelium Revealed by Focused Ion Beam Electron Microscopy *Int J Mol Sci* *21*,DOI: 10.3390/ijms21031089
- Schröder, M.L., Angrisani, N., Fadeeva, E., Hegermann, J., Reifenrath, J. (2020). Laser-structured spike surface shows great bone integrative properties despite infection in vivo *Mater Sci Eng C Mater Biol Appl* *109*,110573. DOI: 10.1016/j.msec.2019.110573
- Smith, B.J., Roy, G.S., Cleveland, A., Mattson, C., Okamura, K., Charlebois, C.M., Hamlington, K.L., Novotny, M.V., Knudsen, L., Ochs, M., Hite, R.D., Bates, J.H.T. (2020). Three Alveolar Phenotypes Govern Lung Function in Murine Ventilator-Induced Lung Injury *Front Physiol* *11*,660. DOI: 10.3389/fphys.2020.00660
- Steiniger, B.S., Pfeffer, H., Guthe, M., Lobachev, O. (2021). Exploring human splenic red pulp vasculature in virtual reality: details of sheathed capillaries and the open capillary network *Histochem Cell Biol* *155*,341-354. DOI: 10.1007/s00418-020-01924-3
- Streich, K., Smoczek, M., Hegermann, J., Dittrich-Breiholz, O., Bornemann, M., Siebert, A., Bleich, A., Buettner, M. (2020). Dietary lipids accumulate in macrophages and stromal cells and change the microarchitecture of mesenteric lymph nodes *J Adv Res* *24*,291-300. DOI: 10.1016/j.jare.2020.04.020

Szepes, M., Melchert, A., Dahlmann, J., Hegermann, J., Werlein, C., Jonigk, D., Haverich, A., Martin, U., Olmer, R., Gruh, I. (2020). Dual Function of iPSC-Derived Pericyte-Like Cells in Vascularization and Fibrosis-Related Cardiac Tissue Remodeling In Vitro. *Int J Mol Sci* 21,8947. DOI: 10.3390/ijms21238947

van Bömmel, L., Könneker, S., Sonnow, L., Krezdorn, N., Schmiedl, A., Vogt, P.M. (2020). Bone Tunnel Orientation in Suspension Arthroplasty of the Thumb Carpometacarpal Joint: An Anatomical Cadaver Study Hand (N Y) DOI: 10.1177/1558944719897137

Wrede, C., Hegermann, J., Mühlfeld, C. (2020). Novel cell contact between podocyte microprojections and parietal epithelial cells analyzed by volume electron microscopy *Am J Physiol Renal Physiol* 318,F1246-F1251. DOI: 10.1152/ajprenal.00097.2020

Yazicioglu, T., Mühlfeld, C., Autilio, C., Huang, C.K., Bär, C., Dittrich-Breiholz, O., Thum, T., Perez-Gil, J., Schmiedl, A., Brandenberger, C. (2020). Aging impairs alveolar epithelial type II cell function in acute lung injury *Am J Physiol Lung Cell Mol Physiol* 319,L755-L769. DOI: 10.1152/ajplung.00093.2020

Übersichtsarbeiten

Knudsen, L., Brandenberger, C., Ochs, M. (2021). Stereology as the 3D tool to quantitate lung architecture. *Histochem Cell Biol* 155,163-181. DOI: 10.1007/s00418-020-01927-0

Ochs, M., Hegermann, J., Lopez-Rodriguez, E., Timm, S., Nouailles, G., Matuszak, J., Simmons, S., Witzenrath, M., Kuebler, W.M. (2020). On Top of the Alveolar Epithelium: Surfactant and the Glycocalyx *Int J Mol Sci* 21,DOI: 10.3390/ijms21093075

Schneider, J.P., Hegermann, J., Wrede, C. (2021). Volume electron microscopy: analyzing the lung *Histochem Cell Biol* 155,241-260. DOI: 10.1007/s00418-020-01916-3

Sehlmeyer, K., Ruwisch, J., Roldan, N., Lopez-Rodriguez, E. (2020). Alveolar Dynamics and Beyond - The Importance of Surfactant Protein C and Cholesterol in Lung Homeostasis and Fibrosis *Front Physiol* 11,386. DOI: 10.3389/fphys.2020.00386

Abstracts

Brandenberger, C., Yazicioglu, T., Autilio, C., Huang, C.K., Bär, C., Thum, T., Perez-Gil, J., Schmiedl, A., Mühlfeld, C. (2020). Aging causes alveolar epithelial type II cell dysfunction in acute lung injury. *ERJ Open Res* 6,67.

Promotionen

Fumy, M.M. (2020). Anatomische Variationen der Insertion der langen Fußmuskulatur am Fuß. Dissertation, Medizinische Hochschule Hannover, 2020

Hohn, I. (2020). Der Einfluss des mesenterialen Lymphknotens auf eine durch Adipositas ausgelöste Immunantwort. Dissertation, Medizinische Hochschule Hannover, 2020

Jütte, D. (2020). Differentielle Effekte von zucker- oder fettinduziertem Übergewicht auf Alveolarepithelzellen Typ II der Maus. Dissertation Medizinische Hochschule Hannover 2020

Opitz, L. (2018). Vorkommen von Lipofibroblasten in den Inter-alveolarsepten verschiedener Mausstämmen Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Rühl, N. (2020). Zusammenspiel von alveolärer Mikromechanik, Flüssigkeitseigenschaften und Epithelschaden im Surfactant Protein B (SP-B) knock-out Maus-Modell. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Schliep, R. (2020). Wachstumsfaktoren und deren Einfluss auf die Regeneration der Lunge im Fibrosemodell: Effekte auf Stammzellen. Dissertation, Medizinische Hochschule Hannover, 2020

Steffen, L.M. (2019). Surfactant als Therapeutikum im Bleomycin-Modell der Lungenschädigung und -fibrose eine stereologische Analyse Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Niedersachsenprofessur Immunmorphologie – 4160

Originalpublikationen

Tschernig, T., Pabst, R. (2021). Macrophage activating lipopeptide 2 is effective in mycobacterial lung infection *Ann Anat* 233,151605. DOI: 10.1016/j.aanat.2020.151605

Übersichtsarbeiten

Pabst, R. (2020). The pig as a model for immunology research *Cell Tissue Res* 380,287-304. DOI: 10.1007/s00441-020-03206-9

Pabst, R., Miller, L.A., Schelegle, E., Hyde, D.M. (2020). Organized lymphatic tissue (BALT) in lungs of rhesus monkeys after air pollutant exposure *Anat Rec (Hoboken)* 303,2766-2773. DOI: 10.1002/ar.24456

Buchbeiträge, Monografien

Pabst, R. (2020). *Konsequent modern : die Anfänge der Medizinischen Hochschule Hannover* (Köln: Lehmanns).

Pabst, R., Brandtzeag, P. (2020). Overview of the mucosal immune system structure. In: *Principles of mucosal immunology*, Smith P.D., eds. (New York: Garland Science) pp. 3-21

Institut für Neuroanatomie und Zellbiologie – 4140

Originalpublikationen

Ahlskog, N., Hayler, D., Krueger, A., Kubinski, S., Claus, P., Hammond, S.M., Wood, M.J.A., Yanez-Munoz, R.J., Bowerman, M. (2019). Muscle overexpression of Klf15 via an AAV8-Spc5-12 construct does not provide benefits in spinal muscular atrophy mice *Gene Ther* 27,505-515. DOI: 10.1038/s41434-020-0146-8

Allardyce, H., Kuhn, D., Hernandez-Gerez, E., Hensel, N., Huang, Y.T., Faller, K., Gillingwater, T.H., Quondamatteo, F., Claus, P., Parson, S.H. (2020). Renal pathology in a mouse model of severe Spinal Muscular Atrophy is associated with downregulation of Glial Cell-Line Derived Neurotrophic Factor (GDNF) *Hum Mol Genet* 29,2365-2378. DOI: 10.1093/hmg/ddaa126

Böckers, A., Claassen, H., Haastert-Talini, K., Westermann, J. (2021). Teaching anatomy under COVID-19 conditions at German universities: recommendations of the teaching commission of the anatomical society. *Ann Anat* 234,151669. DOI: 10.1016/j.aanat.2020.151669

Bora, G., Hensel, N., Rademacher, S., Koyunoglu, D., Sunguroglu, M., Aksu-Menges, E., Balci-Hayta, B., Claus, P., Erdem-Yurter, H. (2021). Microtubule associated protein 1B dysregulates microtubule dynamics and neuronal mitochondrial transport in Spinal Muscular Atrophy *Hum Mol Genet* 29,3935-3944. DOI: 10.1093/hmg/ddaa275

Dietzmeyer, N., Huang, Z., Schüning, T., Rochkind, S., Almog, M., Nevo, Z., Lieve, T., Kankowski, S., Haastert-Talini, K. (2020). In Vivo and In Vitro Evaluation of a Novel Hyaluronic Acid-Laminin Hydrogel as Luminal Filler and Carrier System for Genetically Engineered Schwann Cells in Critical Gap Length Tubular Peripheral Nerve Graft in Rats *Cell Transplant* 29,963689720910095. DOI: 10.1177/0963689720910095

Findeisen, K., Morticelli, L., Goecke, T., Kolbeck, L., Ramm, R., Höffler, H.K., Brandes, G., Korossis, S., Haverich, A., Hilfiker, A. (2020). Toward acellular xenogeneic heart valve prostheses: Histological and biomechanical characterization of decellularized and enzymatically deglycosylated porcine pulmonary heart valve matrices *Xenotransplantation* 27,e12617. DOI: 10.1111/xen.12617

Hensel, N., Brickwedde, H., Tsaknakis, K., Grages, A., Braunschweig, L., Lüders, K.A., Lorenz, H.M., Lippross, S., Walter, L.M., Tavassol, F., Lienenklaus, S., Neunaber, C., Claus, P., Hell, A.K. (2020). Altered bone development with impaired cartilage formation precedes neuromuscular symptoms in spinal muscular atrophy *Hum Mol Genet* 29,2662-2673. DOI: 10.1093/hmg/ddaa145

Hensel, N., Raker, V., Förthmann, B., Buch, A., Sodeik, B., Pich, A., Claus, P. (2020). The Proteome and Secretome of Cortical Brain Cells Infected With Herpes Simplex Virus. *Front Neurol* 11,844. DOI: 10.3389/fneur.2020.00844

Rademacher, S., Detering, N.T., Schüning, T., Lindner, R., Santonicola, P., Wefel, I.M., Dehus, J., Walter, L.M., Brinkmann, H., Niewienda, A., Janek, K., Varela, M.A., Bowerman, M., Di Schiavi, E., Claus, P. (2020). A Single Amino Acid Residue Regulates PTEN-Binding and Stability of the Spinal Muscular Atrophy Protein SMN Cells *9,2405*. DOI: 10.3390/cells9112405

Ronchi, G., Gambarotta, G., Morano, M., Fregnan, F., Pugliese, P., Tos, P., Geuna, S., Haastert-Talini, K. (2020). Critical analysis of the value of the rabbit median nerve model for biomedical research on peripheral nerve grafts *J Tissue Eng Regen Med* 14,736-740. DOI: 10.1002/term.3036

Schilling, T., Bauer, M., Hartung, D., Brandes, G., Tudorache, I., Cebotari, S., Meyer, T., Wacker, F., Haverich, A., Hassel, T. (2020). Stabilisation of a Segment of Autologous Vascularised Stomach as a Patch for Myocardial Reconstruction with Degradable Magnesium Alloy Scaffolds in a Swine Model. *Crystals* 10,438. DOI: 10.3390/cryst10060438

Schöttelndreier, D., Langejürgen, A., Lindner, R., Genth, H. (2020). Low Density Lipoprotein Receptor-Related Protein-1 (LRP1) Is Involved in the Uptake of Clostridioides difficile Toxin A and Serves as an Internalizing Receptor *Front Cell Infect Microbiol* 10,565465. DOI: 10.3389/fcimb.2020.565465

Übersichtsarbeiten

Frein von Hövel, F., Kefalakes, E., Grothe, C. (2020). What Can We Learn from FGF-2 Isoform-Specific Mouse Mutants? Differential Insights into FGF-2 Physiology *In Vivo*. *Int J Mol Sci* 22,E390 [pii]. DOI: 10.3390/ijms22010390

Hensel, N., Kubinski, S., Claus, P. (2020). The Need for SMN-Independent Treatments of Spinal Muscular Atrophy (SMA) to Complement SMN-Enhancing Drugs. *Front Neurol* 11,45. DOI: 10.3389/fneur.2020.00045

Huang, Z., Powell, R., Phillips, J.B., Haastert-Talini, K. (2020). Perspective on Schwann Cells Derived from Induced Pluripotent Stem Cells in Peripheral Nerve Tissue Engineering *Cells* 9,2497. DOI: 10.3390/cells9112497

Kaltenborn, A., Krezdorn, N., Hoffmann, S., Gutcke, A., Haastert-Talini, K., Vogt, P.M., Haverich, A., Wiegmann, B. (2020). Ex vivo limb perfusion for traumatic amputation in military medicine. *Mil Med Res* 7,21. DOI: 10.1186/s40779-020-00250-y

Abstracts

Huang, Z., Kankowski, S., Haastert-Talini, K. (2020). Characterizing Schwann cell precursors (SCPs) derived from human induced pluripotent stem cells (iPSCs) for their future application in translational research. ZSN Graduate School Day, 2020.

Teschner, M., Nuss, W., Brandes, G., Warnecke, A., Lenarz, T., Wissel, K. (2020). Effekte von Omega-3-Fettsäuren und L-Carnitin auf die Stoffwechsellaktivität der humanen Neuroblastom- (SH-SY5Y) und der murinen Corti-Organ (HEI-OC1) Zelllinie. *Laryngorhinootologie* 99,Suppl.2-S203. DOI: 10.1055/s-0040-1711780

Wissel, K., Brandes, G., Paasche, G., Lenarz, T., Durisin, M. (2020). Einfluss der Platin-Nanopartikel auf die Zellviabilität der Corti-Organ Zelllinie der Maus (HEI-OC1) und der Spiralganglienzellen postnataler Ratten. *Laryngorhinootologie* 99,S207. DOI: 10.1055/s-0040-1711791

Wissel, K., Brandes, G., Paasche, G., Lenarz, T., Durisin, M. (2020). Impact of platinum nanoparticles on the organ of Corti cell line HEI-OC1 and on rat spiral ganglion neurons. *Laryngorhinootologie* 99,Suppl.2-S282. DOI: 10.1055/s-0040-1711170

Vorträge

Hensel, N., Tapken, I., Schüning, T., Cieri, F., Santonicola, P., Fischer, S., Heidrich, N., Brinkmann, H., Kubinski, S., Jung, K., Di Schiavi, E., Claus, P. (2020). An impaired neurotrophic signaling hub drives motoneuron degeneration in Spinal Muscular Atrophy. 2nd International Scientific Congress on Spinal Muscular Atrophy, SMA Europe, 5.-7. Februar 2020, Evry (France).

Rademacher, S., Detering, N.T., Schüning, T., Lindner, R., Santonicola, P., Wefel, I.M., Dehus, J., Walter, L.M., Brinkmann, H., Niewienda, A., Janek, K., Varela, M.A., Bowerman, M., Di Schiavi, E., Claus, P. (2020). The phosphorylation state of the Survival of Motoneuron (SMN) protein regulates PTEN binding and modulates SMN function. UK SMA Research Online Conference, 10.-11. September 2020.

Poster

Detering, N.T., Schüning, T., Rademacher, S., Hensel, N., Lindner, R., Claus, P. (2020). Modulation of the phosphorylation state of the Survival of Motoneuron (SMN) protein: impact on intracellular localization, oligomerization and stability. 2nd International Scientific Congress on Spinal Muscular Atrophy, SMA Europe, 5.-7. Februar 2020, Evry (France).

Melcher, C., Walter, L.M., Claus, P., Lindner, R. (2020). Reduced levels of Survival of Motor Neuron (SMN) protein enhance micropinocytosis. 2nd International Scientific Congress on Spinal Muscular Atrophy, SMA Europe, 5.-7. Februar 2020, Evry (France).

Schüning, T., Hensel, N., Zeug, A., Claus, P. (2020). Molecular mechanisms of cytoskeletal dysregulation in Spinal Muscular Atrophy (SMA). 2nd International Scientific Congress on Spinal Muscular Atrophy, SMA Europe, 5.-7. Februar 2020, Evry (France).

Promotionen

Brickwedde, H. (2020). Intrinsische Dysregulation im Knochen eines Mausmodells der Spinalen Muskelatrophie (SMA). Dissertation, Medizinische Hochschule Hannover, 2020

Donert, M. (2020). Analyse konservierter Progenitorzellen des ventralen Mesencephalons von TH-GFP-Mäusen *in vitro* und nach der intrastriatalen Transplantation in ein Rattenmodell des Morbus Parkinson. Dissertation, Medizinische Hochschule Hannover, 2020

Walter, L.M. (2020). Dynamics and regulation of the actin cytoskeleton in the motoneuron disease Spinal Muscular Atrophy (SMA). Dissertation, Tierärztliche Hochschule Hannover, 2020

Bachelorarbeiten

Sölmann, J. (2020). Etablierung einer PCR-Methode zur Detektion von Zika-Viren. Bachelorarbeit, Medizinische Hochschule Hannover, 2020

Zentrum Physiologie

Institut für Molekular- und Zellphysiologie – 4210

Originalpublikationen

Amrute-Nayak, M., Pegoli, G., Holler, T., Lopez-Davila, A.J., Lanzuolo, C., Nayak, A. (2021). Chemotherapy triggers cachexia by deregulating synergetic function of histone-modifying enzymes *J Cachexia Sarcopenia Muscle* *12*,159-176. DOI: 10.1002/jcsm.12645

Auxerre-Plantie, E., Nielsen, T., Grunert, M., Olejniczak, O., Perrot, A., Özcelik, C., Harries, D., Matinmehr, F., Dos Remedios, C., Mühlfeld, C., Kraft, T., Bodmer, R., Vogler, G., Sperling, S.R. (2020). Identification of MYOM2 as a candidate gene in hypertrophic cardiomyopathy and Tetralogy of Fallot, and its functional evaluation in the Drosophila heart *Dis Model Mech* *13*,DOI: 10.1242/dmm.045377

Foinquinos, A., Batkai, S., Genschel, C., Viereck, J., Rump, S., Gyöngyösi, M., Traxler, D., Riesenhuber, M., Spannauer, A., Lukovic, D., Weber, N., Zlabinger, K., Hasimbegovic, E., Winkler, J., Fiedler, J., Dangwal, S., Fischer, M., de la Roche, J., Wojciechowski, D., Kraft, T., Garamvölgyi, R., Neitzel, S., Chatterjee, S., Yin, X., Bär, C., Mayr, M., Xiao, K., Thum, T. (2020). Preclinical development of a miR-132 inhibitor for heart failure treatment *Nat Commun* *11*,633. DOI: 10.1038/s41467-020-14349-2

Franz, P., Gassl, V., Topf, A., Eckelmann, L., Iorga, B., Tsiavaliaris, G. (2020). A thermophoresis-based biosensor for real-time detection of inorganic phosphate during enzymatic reactions *Biosens Bioelectron* *169*,112616. DOI: 10.1016/j.bios.2020.112616

Groen, M., Lopez-Davila, A.J., Zittrich, S., Pfitzer, G., Stehle, R. (2020). Hypertrophic and Dilated Cardiomyopathy-Associated Troponin T Mutations R130C and DeltaK210 Oppositely Affect Length-Dependent Calcium Sensitivity of Force Generation *Front Physiol* *11*,516. DOI: 10.3389/fphys.2020.00516

Lopez Davila, A.J., Zhu, L., Fritz, L., Kraft, T., Chalovich, J.M. (2020). The Positively Charged C-Terminal Region of Human Skeletal Troponin T Retards Activation and Decreases Calcium Sensitivity *Biochemistry* *59*,4189-4201. DOI: 10.1021/acs.biochem.0c00499

Lopez-Davila, A.J., Chalovich, J.M., Zittrich, S., Piep, B., Matinmehr, F., Malnasi-Csizmadia, A., Rauscher, A.A., Kraft, T., Brenner, B., Stehle, R. (2020). Cycling Cross-Bridges Contribute to Thin Filament Activation in Human Slow-Twitch Fibers. *Front Physiol* *11*,144. DOI: 10.3389/fphys.2020.00144

Montag, J., Kraft, T. (2020). Stochastic allelic expression as trigger for contractile imbalance in hypertrophic cardiomyopathy. *Biophys Rev* *12*,1055-1064. DOI: 10.1007/s12551-020-00719-z

Nayak, A., Wang, T., Franz, P., Steffen, W., Chizhov, I., Tsiavaliaris, G., Amrute-Nayak, M. (2020). Single-molecule analysis reveals that regulatory light chains fine-tune skeletal myosin-II function. *J Biol Chem* *295*,7046-7059. DOI: 10.1074/jbc.RA120.012774

Rose, J., Kraft, T., Brenner, B., Montag, J. (2020). Hypertrophic cardiomyopathy MYH7 mutation R723G alters mRNA secondary structure. *Physiol Genomics* *52*,15-19. DOI: 10.1152/physiolgenomics.00100.2019

Viereck, J., Bührke, A., Foinquinos, A., Chatterjee, S., Kleeberger, J.A., Xiao, K., Janssen-Peters, H., Batkai, S., Ramanujam, D., Kraft, T., Cebotari, S., Gueler, F., Beyer, A.M., Schmitz, J., Bräsen, J.H., Schmitto, J.D., Gyöngyösi, M., Löser, A., Hirt, M.N., Eschenhagen, T.,

Engelhardt, S., Bär, C., Thum, T. (2020). Targeting muscle-enriched long non-coding RNA H19 reverses pathological cardiac hypertrophy. *Eur Heart J* 41,3462-3474. DOI: 10.1093/eurheartj/ehaa519

Wang, T., Brenner, B., Nayak, A., Amrute-Nayak, M. (2020). Acto-Myosin Cross-Bridge Stiffness Depends on the Nucleotide State of Myosin II *Nano Lett* 20,7506-7512. DOI: 10.1021/acs.nanolett.0c02960

Weber, N., Kowalski, K., Holler, T., Radocaj, A., Fischer, M., Thiemann, S., de la Roche, J., Schwanke, K., Piep, B., Peschel, N., Krumm, U., Lingk, A., Wendland, M., Greten, S., Schmitto, J.D., Ismail, I., Warnecke, G., Zywiets, U., Chichkov, B., Meissner, J., Haverich, A., Martin, U., Brenner, B., Zweigerdt, R., Kraft, T. (2020). Advanced Single-Cell Mapping Reveals that in hESC Cardiomyocytes Contraction Kinetics and Action Potential Are Independent of Myosin Isoform. *Stem Cell Reports* 14,788-802. DOI: 10.1016/j.stemcr.2020.03.015

Übersichtsarbeiten

Nayak, A., Amrute-Nayak, M. (2020). SUMO system - a key regulator in sarcomere organization *FEBS J* 287,2176-2190. DOI: 10.1111/febs.15263

Abstracts

Weber, N., Holler, T., Meißner, J., Montag, J., Fischer, M., de la Roche, J., Thiemann, S., Peschel, N., Kathrin Mayer, A., Schwanke, K., Piep, B., Martin, U., Zweigerdt, R., Kraft, T. (2020). Hypertrophic Cardiomyopathy: Prolonged Twitch, Calcium Transients and Action

Potentials in Human Stem Cell-Derived Cardiomyocytes with β -Myosin Mutation R723G. *Biophys J* 118,257a. DOI: 10.1016/j.bpj.2019.11.1496

Promotionen

Aldag-Niebling, D. (2019). Familiäre Hypertrophe Kardiomyopathie Haploinsuffizienz und Zell- zu Zell-Variabilität in Funktion und Proteinexpression bei einer Mutation im kardialen Myosin-bindenden Protein C Dissertation, Medizinische Hochschule Hannover, 2020

Ernstberger, P. (2019). Ungleiche allelische Expression bei Mutationen im MYH7-Gen bei Hypertropher Kardiomyopathie : mRNA-Quantifizierung der A200V-Mutation. Dissertation, Medizinische Hochschule Hannover, 2020

Kowalski, K. (2019). Nachweis einer burst-like Transkription von MYH6 und MYH7 in humanen Kardiomyozyten Dissertation, Medizinische Hochschule Hannover, 2020

Lesch, E. (2019). Auswirkungen der krankheits-assoziierten Tau-Protein-Mutation Δ K280 auf die Kinesinfunktion Dissertation, Medizinische Hochschule Hannover, 2020

Mayer, A. (2019). Allelische Imbalance der MYH7-mRNA von Zelle zu Zelle in humanen Kardiomyozyten. Dissertation, Medizinische Hochschule Hannover, 2020

Weber, N. (2020). Kardiomyozyten aus humanen induzierten pluripotenten Stammzellen als ein In-vitro-Modell der hypertrophen Kardiomyopathie. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Institut für Neurophysiologie – 4230

Originalpublikationen

Arlt, E., Fraticelli, M., Tsvilovskyy, V., Nadolni, W., Breit, A., O'Neill, T.J., Resenberger, S., Wennemuth, G., Wahl-Schott, C., Biel, M., Grimm, C., Freichel, M., Gudermann, T., Klugbauer, N., Boekhoff, I., Zierler, S. (2020). TPC1 deficiency or blockade augments systemic anaphylaxis and mast cell activity. *Proc Natl Acad Sci U S A* 117,18068-18078. DOI: 10.1073/pnas.1920122117

Böhm, S., Splith, V., Riedmayr, L.M., Rötzer, R.D., Gasparoni, G., Nordström, K.J.V., Wagner, J.E., Hinrichsmeyer, K.S., Walter, J., Wahl-Schott, C., Fenske, S., Biel, M., Michalakis, S., Becirovic, E. (2020). A gene therapy for inherited blindness using dCas9-VPR-mediated transcriptional activation. *Sci Adv* 6,eaba5614. DOI: 10.1126/sciadv.aba5614

Chen, C.C., Krogsaeter, E., Butz, E.S., Li, Y., Puertollano, R., Wahl-Schott, C., Biel, M., Grimm, C. (2020). TRPML2 is an osmo/mechanosensitive cation channel in endolysosomal organelles. *Sci Adv* 6,eabb5064 [pii]. DOI: 10.1126/sciadv.abb5064

Fenske, S., Hennis, K., Rötzer, R.D., Brox, V.F., Becirovic, E., Scharr, A., Gruner, C., Ziegler, T., Mehlfeld, V., Brennan, J., Efimov, I.R., Pauza, A.G., Moser, M., Wotjak, C.T., Kupatt, C., Gonner, R., Zhang, R., Zhang, H., Zong, X., Biel, M., Wahl-Schott, C. (2020). cAMP-dependent regulation of HCN4 controls the tonic entrainment process in sinoatrial node pacemaker cells. *Nat Commun* 11,5555. DOI: 10.1038/s41467-020-19304-9

Gerndt, S., Chen, C.C., Chao, Y.K., Yuan, Y., Burgstaller, S., Scotto Rosato, A., Krogsaeter, E., Urban, N., Jacob, K., Nguyen, O.N.P., Miller, M.T., Keller, M., Vollmar, A.M., Gudermann, T., Zierler, S., Schredelseker, J., Schaefer, M., Biel, M., Malli, R., Wahl-Schott, C., Bracher, F., Patel, S., Grimm, C. (2020). Agonist-mediated switching of ion selectivity in TPC2 differentially promotes lysosomal function. *Elife* 9,54712. DOI: 10.7554/eLife.54712

Gorinski, N., Wojciechowski, D., Guseva, D., Abdel Galil, D., Mueller, F.E., Wirth, A., Thiemann, S., Zeug, A., Schmidt, S., Zareba-Kozioł, M., Włodarczyk, J., Skryabin, B.V., Glage, S., Fischer, M., Al-Samir, S., Kerkenberg, N., Hohoff, C., Zhang, W., Endeward, V., Ponimaskin, E. (2020). DHHC7-mediated palmitoylation of the accessory protein barttin critically regulates the functions of ClC-K chloride channels. *J Biol Chem* 295,5970-5983. DOI: 10.1074/jbc.RA119.011049

Guseva, D., Rüdrieh, U., Kotnik, N., Gehring, M., Patsinakidis, N., Agelopoulos, K., Ständer, S., Homey, B., Kapp, A., Gibbs, B.F., Ponimaskin, E., Raap, U. (2020). Neuronal branching of sensory neurons is associated with BDNF-positive eosinophils in atopic dermatitis. *Clin Exp Allergy* 50,577-584. DOI: 10.1111/cea.13560

Hahn, M.A., Jin, S.G., Li, A.X., Liu, J., Huang, Z., Wu, X., Kim, B.W., Johnson, J., Bilbao, A.V., Tao, S., Yim, J.A., Fong, Y., Goebels, S., Schwab, M.H., Lu, Q., Pfeifer, G.P. (2019). Reprogramming of DNA methylation at NEUROD2-bound sequences during cortical neuron differentiation. *Sci Adv* 5,eaax0080. DOI: 10.1126/sciadv.aax0080

King, C.M., Bohmbach, K., Minge, D., Delekate, A., Zheng, K., Reynolds, J., Rakers, C., Zeug, A., Petzold, G.C., Rusakov, D.A., Henneberger, C. (2020). Local Resting Ca(2+) Controls the Scale of Astroglial Ca(2+) Signals. *Cell Rep* 30,3466-3477.e4. DOI: 10.1016/j.celrep.2020.02.043

Olusakin, J., Moutkine, I., Dumas, S., Ponimaskin, E., Paizanis, E., Soiza-Reilly, M., Gaspar, P. (2020). Implication of 5-HT7 receptor in prefrontal circuit assembly and detrimental emotional effects of SSRIs during development. *Neuropsychopharmacology* 45,2267-2277. DOI: 10.1038/s41386-020-0775-z

Pfeffer, T.J., Herrmann, J., Berliner, D., König, T., Winter, L., Ricke-Hoch, M., Ponimaskin, E., Schuchardt, S., Thum, T., Hilfiker-Kleiner, D., Bauersachs, J., Kahl, K.G. (2020). Assessment of major mental disorders in a German peripartum cardiomyopathy cohort. *ESC Heart Fail* 7,4394-4398. DOI: 10.1002/ehf2.12967

Schill, Y., Bijata, M., Kopach, O., Cherkas, V., Abdel-Galil, D., Bohm, K., Schwab, M.H., Matsuda, M., Compan, V., Basu, S., Bijata, K., Włodarczyk, J., Bard, L., Cole, N., Dityatev, A., Zeug, A., Rusakov, D.A., Ponimaskin, E. (2020). Serotonin 5-HT4 receptor boosts functional maturation of dendritic spines via RhoA-dependent control of F-actin. *Commun Biol* 3,76. DOI: 10.1038/s42003-020-0791-x

Weber, N., Kowalski, K., Holler, T., Radocaj, A., Fischer, M., Thiemann, S., de la Roche, J., Schwanke, K., Piep, B., Peschel, N., Krumm, U., Lingk, A., Wendland, M., Greten, S., Schmitto, J.D., Ismail, I., Warnecke, G., Zywiets, U., Chichkov, B., Meissner, J., Haverich, A., Martin, U., Brenner, B., Zweigerdt, R., Kraft, T. (2020). Advanced Single-Cell Mapping Reveals that in hESC Cardiomyocytes Contraction Kinetics and Action Potential Are Independent of Myosin Isoform. *Stem Cell Reports* 14,788-802. DOI: 10.1016/j.stemcr.2020.03.015

Xu, J., Zeug, A., Riederer, B., Yeruva, S., Griesbeck, O., Daniel, H., Tuo, B., Ponimaskin, E., Dong, H., Seidler, U. (2020). Calcium-sensing receptor regulates intestinal dipeptide absorption via Ca(2+) signaling and IKCa activation. *Physiol Rep* 8,e14337. DOI: 10.14814/phy2.14337

Abstracts

Weber, N., Holler, T., Meißner, J., Montag, J., Fischer, M., de la Roche, J., Thiemann, S., Peschel, N., Kathrin Mayer, A., Schwanke, K., Piep, B., Martin, U., Zweigerdt, R., Kraft, T. (2020). Hypertrophic Cardiomyopathy: Prolonged Twitch, Calcium Transients and Action Potentials in Human Stem Cell-Derived Cardiomyocytes with β -Myosin Mutation R723G. *Biophys J* 118,257a. DOI: 10.1016/j.bpj.2019.11.1496

Promotionen

Langschwager, K. (2020). Die Nukleotidabhängigkeit der Chlorid-Protonen-Antiporter ClC-4 und ClC-5: Welche Rolle spielt der C-Terminus? Dissertation, Medizinische Hochschule Hannover, 2020

Masterarbeiten

Kocdölü, Ö. (2020). Functional characterization of TPC2 in membrane compartments. Masterarbeit, Medizinische Hochschule Hannover, 2020

Zentrum für Biochemie

Institut für Biophysikalische Chemie – 4350

Originalpublikation

Abou-Ghali, M., Kusters, R., Körber, S., Manzi, J., Faix, J., Sykes, C., Plastino, J. (2020). Capping protein is dispensable for polarized actin network growth and actin-based motility *J Biol Chem* *295*,15366-15375. DOI: 10.1074/jbc.RA120.015009

Damiano-Guercio, J., Kurzawa, L., Mueller, J., Dimchev, G., Schaks, M., Nemethova, M., Pokrant, T., Brühmann, S., Linkner, J., Blanchoin, L., Sixt, M., Rottner, K., Faix, J. (2020). Loss of Ena/VASP interferes with lamellipodium architecture, motility and integrin-dependent adhesion *Elife* *9*,e55351. DOI: 10.7554/eLife.55351

Dimchev, G., Amiri, B., Humphries, A.C., Schaks, M., Dimchev, V., Stradal, T.E.B., Faix, J., Krause, M., Way, M., Falcke, M., Rottner, K. (2020). Lamellipodin tunes cell migration by stabilizing protrusions and promoting adhesion formation *J Cell Sci* *133*,jcs239020. DOI: 10.1242/jcs.239020

Ecke, M., Prassler, J., Tanribil, P., Müller-Taubenberger, A., Körber, S., Faix, J., Gerisch, G. (2020). Formins specify membrane patterns generated by propagating actin waves *Mol Biol Cell* *31*,373-385. DOI: 10.1091/mbc.E19-08-0460

Ewert, W., Franz, P., Tsiavaliaris, G., Preller, M. (2020). Structural and Computational Insights into a Blebbistatin-Bound Myosin*ADP Complex with Characteristics of an ADP-Release Conformation along the Two-Step Myosin Power Stroke *Int J Mol Sci* *21*,7417. DOI: 10.3390/ijms21197417

Fiebig, T., Cramer, J.T., Bethe, A., Baruch, P., Curth, U., Führung, J.I., Buettner, F.F.R., Vogel, U., Schubert, M., Fedorov, R., Mühlhoff, M. (2020). Structural and mechanistic basis of capsule O-acetylation in *Neisseria meningitidis* serogroup A *Nat Commun* *11*,4723. DOI: 10.1038/s41467-020-18464-y

Franz, P., Ewert, W., Preller, M., Tsiavaliaris, G. (2020). Unraveling a Force-Generating Allosteric Pathway of Actomyosin Communication Associated with ADP and Pi Release *Int J Mol Sci* *22*,DOI: 10.3390/ijms22010104

Franz, P., Gassl, V., Topf, A., Eckelmann, L., Iorga, B., Tsiavaliaris, G. (2020). A thermophoresis-based biosensor for real-time detection of inorganic phosphate during enzymatic reactions *Biosens Bioelectron* *169*,112616. DOI: 10.1016/j.bios.2020.112616

Giese, S., Reindl, T., Reinke, P.Y.A., Zattelman, L., Fedorov, R., Henn, A., Taft, M.H., Manstein, D.J. (2021). Mechanochemical properties of human myosin 1C are modulated by isoform-specific differences in the N-terminal extension *J Biol Chem* *296*,100128. DOI: 10.1074/jbc.RA120.015187

Kovalev, K., Volkov, D., Astashkin, R., Alekseev, A., Gushchin, I., Haro-Moreno, J.M., Chizhov, I., Siletsky, S., Mamedov, M., Rogachev, A., Balandin, T., Borshchevskiy, V., Popov, A., Bourenkov, G., Bamberg, E., Rodriguez-Valera, F., Büldt, G., Gordeliy, V. (2020). High-resolution structural insights into the heliorhodopsin family *Proc Natl Acad Sci U S A* *117*,4131-4141. DOI: 10.1073/pnas.1915888117

Latham, S.L., Weiss, N., Schwanke, K., Thiel, C., Croucher, D.R., Zweigerdt, R., Manstein, D.J., Taft, M.H. (2020). Myosin-18B Regulates Higher-Order Organization of the Cardiac Sarcomere through Thin Filament Cross-Linking and Thick Filament Dynamics *Cell Rep* *32*,108090. DOI: 10.1016/j.celrep.2020.108090

Machtens, D.A., Willerding, J.M., Eschenburg, S., Reubold, T.F. (2020). Crystal structure of the metaeffector MesI (Lpg2505) from *Legionella pneumophila* *Biochem Biophys Res Commun* *527*,696-701. DOI: 10.1016/j.bbrc.2020.05.027

Nayak, A., Wang, T., Franz, P., Steffen, W., Chizhov, I., Tsiavaliaris, G., Amrute-Nayak, M. (2020). Single-molecule analysis reveals that regulatory light chains fine-tune skeletal myosin-II function. *J Biol Chem* *295*,7046-7059. DOI: 10.1074/jbc.RA120.012774

Osmanovic, A., Widjaja, M., Förster, A., Weder, J., Wattjes, M.P., Lange, I., Sarikidi, A., Auber, B., Raab, P., Christians, A., Preller, M., Petri, S., Weber, R.G. (2020). SPG7 mutations in amyotrophic lateral sclerosis: a genetic link to hereditary spastic paraplegia *J Neurol* *267*,2732-2743. DOI: 10.1007/s00415-020-09861-w

Pfützner, S., Hofmann-Sieber, H., Bosse, J.B., Franken, L.E., Grünewald, K., Dobner, T. (2020). Fluorescent protein tagging of adenoviral proteins pV and pIX reveals 'late virion accumulation compartment'. *PLoS Pathog* *16*,e1008588. DOI: 10.1371/journal.ppat.1008588

Riba, A., Hassani, K., Walker, A., van Best, N., von Zeschwitz, D., Anslinger, T., Sillner, N., Rosenhain, S., Eibach, D., Maiga-Ascofare, O., Rolle-Kampczyk, U., Basic, M., Binz, A., Mocek, S., Sodeik, B., Bauerfeind, R., Mohs, A., Trautwein, C., Kiessling, F., May, J., Klingenspor, M., Gremse, F., Schmitt-Kopplin, P., Bleich, A., Torow, N., von Bergen, M., Hornef, M.W. (2020). Disturbed gut microbiota and bile homeostasis in Giardia-infected mice contributes to metabolic dysregulation and growth impairment *Sci Transl Med* *12*, DOI: 10.1126/scitranslmed.aay7019

Tumpara, S., Martinez-Delgado, B., Gomez-Mariano, G., Liu, B., DeLuca, D.S., Korenbaum, E., Jonigk, D., Jugert, F., Wurm, F.M., Wurm, M.J., Welte, T., Janciauskiene, S. (2020). The Delivery of alpha1-Antitrypsin Therapy Through Transepidermal Route: Worthwhile to Explore *Front Pharmacol* *11*,983. DOI: 10.3389/fphar.2020.00983

Viswanathan, M.C., Schmidt, W., Franz, P., Rynkiewicz, M.J., Newhard, C.S., Madan, A., Lehman, W., Swank, D.M., Preller, M., Cammarato, A. (2020). A role for actin flexibility in thin filament-mediated contractile regulation and myopathy *Nat Commun* *11*,2417. DOI: 10.1038/s41467-020-15922-5

Wollenberg, R.D., Donau, S.S., Taft, M.H., Balazs, Z., Giese, S., Thiel, C., Sorensen, J.L., Nielsen, T.T., Giese, H., Manstein, D.J., Wimmer, R., Sondergaard, T.E. (2020). Undeclared - Changing the phenamacril scaffold is not enough to beat resistant *Fusarium* *PLoS One* *15*,e0235568. DOI: 10.1371/journal.pone.0235568

Zabelskii, D., Alekseev, A., Kovalev, K., Rankovic, V., Balandin, T., Soloviov, D., Bratanov, D., Savelyeva, E., Podolyak, E., Volkov, D., Vaganova, S., Astashkin, R., Chizhov, I., Yutin, N., Rulev, M., Popov, A., Eria-Oliveira, A.S., Rokitskaya, T., Mager, T., Antonenko, Y., Rosselli, R., Armeev, G., Shaitan, K., Vivaudou, M., Büldt, G., Rogachev, A., Rodriguez-Valera, F., Kirpichnikov, M., Moser, T., Offenhäuser, A., Willbold, D., Koonin, E., Bamberg, E., Gordeliy, V. (2020). Viral rhodopsins 1 are a unique family of light-gated cation channels *Nat Commun* *11*,5707. DOI: 10.1038/s41467-020-19457-7

Zhang, L., Lin, D., Sun, X., Curth, U., Drosten, C., Sauerhering, L., Becker, S., Rox, K., Hilgenfeld, R. (2020). Crystal structure of SARS-CoV-2 main protease provides a basis for design of improved alpha-ketoamide inhibitors *Science* *368*,409-412. DOI: 10.1126/science.abb3405

Übersichtsarbeiten

Manstein, D.J., Preller, M. (2020). Small Molecule Effectors of Myosin Function *Adv Exp Med Biol* *1239*,61-84. DOI: 10.1007/978-3-030-38062-5_5

Buchbeiträge, Monografien

Taft, M.H., Latham, S.L. (2020). Myosin XVIII. *Adv Exp Med Biol* *1239*,421-438. DOI: 10.1007/978-3-030-38062-5_19

Promotionen

Ehlert, J. (2020). Inhibition parasitärer Myosine durch niedermolekulare Effektormoleküle. Dissertation, Medizinische Hochschule Hannover, 2020

Ewert, W. (2020). Mechanistische Untersuchungen zu strukturellen Veränderungen während der Substrat-Katalyse in Myosin-Motoren und Amidsynthesen. Dissertation, Medizinische Hochschule Hannover, 2020

Giese, S. (2020). Impact of isoform diversity on actin-based cytoskeletal processes powered by Myosin-1C. Dissertation, Medizinische Hochschule Hannover, 2020

Reindl, T.A. (2019). Allosteric regulation of actomyosin-based contractility in non-muscle cells. Dissertation, Medizinische Hochschule Hannover, 2020

Reinke, P.Y.A. (2020). Development and application of protein crystallography approaches for the elucidation of actin-based modulation of cytosolic myosin function. Dissertation, Medizinische Hochschule Hannover, 2020

Masterarbeiten

Lamottke, E. (2020). Strukturelle Charakterisierung von infektionsrelevanten Proteinen aus *Borrelia burgdorferi*. Masterarbeit, Medizinische Hochschule Hannover, 2020

Mohr, E. (2020). In vitro Visualisation of alpha-Actinin Induced Actin-Bundles by means of DNA-PAINT. Masterarbeit, Medizinische Hochschule Hannover, 2020

Weiß, N. (2020). Comparative functional and cellular characterization of human myosin-18A and myosin-18B. Masterarbeit, Medizinische Hochschule Hannover, 2020

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Originalpublikationen

Ackermann, M., Haake, K., Kempf, H., Kaschutnig, P., Weiss, A.C., Nguyen, A.H.H., Abeln, M., Merkert, S., Kühnel, M.P., Hartmann, D., Jonigk, D., Thum, T., Kispert, A., Milsom, M.D., Lachmann, N. (2021). A 3D iPSC-differentiation model identifies interleukin-3 as a regulator of early human hematopoietic specification *Haematologica* 106,1354-1367. DOI: 10.3324/haematol.2019.228064

Bartling, B., Brüchle, N.C., Rehfeld, J.S., Boßmann, D., Fiebig, T., Litschko, C., Fohrer, J., Gerardy-Schahn, R., Scheper, T., Beutel, S. (2020). Accelerated production of α 2,8- and α 2,9-linked polysialic acid in recombinant *Escherichia coli* using high cell density cultivation. *Biotechnology Reports* 28,e00562. DOI: 10.1016/j.btre.2020.e00562

Budde, I., Litschko, C., Führung, J.I., Gerardy-Schahn, R., Schubert, M., Fiebig, T. (2020). An enzyme-based protocol for cell-free synthesis of nature-identical capsular oligosaccharides from *Actinobacillus pleuropneumoniae* serotype 1. *J Biol Chem* 295,5771-5784. DOI: 10.1074/jbc.RA120.012961

Dettmer, R., Cirkseña, K., Münchhoff, J., Kresse, J., Diekmann, U., Niwolik, I., Buettner, F.F.R., Naujok, O. (2020). FGF2 Inhibits Early Pancreatic Lineage Specification during Differentiation of Human Embryonic Stem Cells *Cells* 9,1927. DOI: 10.3390/cells9091927

Dettmer, R., Naujok, O. (2020). Design and Derivation of Multi-Reporter Pluripotent Stem Cell Lines via CRISPR/Cas9n-Mediated Homology-Directed Repair *Curr Protoc Stem Cell Biol* 54,e116. DOI: 10.1002/cpsc.116

Durrant, C., Fuehring, J.I., Willemetz, A., Chretien, D., Sala, G., Ghidoni, R., Katz, A., Rötig, A., Thelestam, M., Ermonval, M., Moore, S.E.H. (2020). Defects in Galactose Metabolism and Glycoconjugate Biosynthesis in a UDP-Glucose Pyrophosphorylase-Deficient Cell Line Are Reversed by Adding Galactose to the Growth Medium. *Int J Mol Sci* 21,DOI: 10.3390/ijms21062028

Fiebig, T., Cramer, J.T., Bethe, A., Baruch, P., Curth, U., Führung, J.I., Buettner, F.F.R., Vogel, U., Schubert, M., Fedorov, R., Mühlenhoff, M. (2020). Structural and mechanistic basis of capsule O-acetylation in *Neisseria meningitidis* serogroup A *Nat Commun* 11,4723. DOI: 10.1038/s41467-020-18464-y

Friedrich, A. (2020). Untersuchung der C-Mannosylierung in Stammzell-abgeleiteten neuroektodermalen Zellen. Masterarbeit, Medizinische Hochschule Hannover, 2020

Galeev, A., Suwandi, A., Bakker, H., Oktiviyari, A., Routier, F.H., Krone, L., Hensel, M., Grassl, G.A. (2020). Proteoglycan-Dependent Endo-Lysosomal Fusion Affects Intracellular Survival of *Salmonella Typhimurium* in Epithelial Cells. *Front Immunol* 11,731. DOI: 10.3389/fimmu.2020.00731

Jirno, A.C., Rossdam, C., Grychtol, R., Happle, C., Gerardy-Schahn, R., Buettner, F.F.R., Hansen, G. (2020). Differential expression patterns of glycosphingolipids and C-type lectin receptors on immune cells in absence of functional regulatory T cells *Immun Inflamm Dis* 8,512-522. DOI: 10.1002/iid3.334

Jonker, H.R.A., Saxena, K., Shcherbakova, A., Tiemann, B., Bakker, H., Schwalbe, H. (2020). NMR Spectroscopic Characterization of the C-Mannose Conformation in a Thrombospondin Repeat Using a Selective Labeling Approach *Angew Chem Int Ed Engl* 59,20659-20665. DOI: 10.1002/anie.202009489

Jörns, A., Arndt, T., Yamada, S., Ishikawa, D., Yoshimoto, T., Terbish, T., Wedekind, D., van der Meide, P.H., Lenzen, S. (2020). Translation of curative therapy concepts with T cell and cytokine antibody combinations for type 1 diabetes reversal in the IDDM rat. *J Mol Med (Berl)* 98,1125-1137. DOI: 10.1007/s00109-020-01941-8

Jörns, A., Ishikawa, D., Teraoku, H., Yoshimoto, T., Wedekind, D., Lenzen, S. (2020). Remission of autoimmune diabetes by anti-TCR combination therapies with anti-IL-17A or/and anti-IL-6 in the IDDM rat model of type 1 diabetes. *BMC Med* 18,33. DOI: 10.1186/s12916-020-1503-6

Jörns, A., Wedekind, D., Jähne, J., Lenzen, S. (2020). Pancreas Pathology of Latent Autoimmune Diabetes in Adults (LADA) in Patients and in a LADA Rat Model Compared With Type 1 Diabetes. *Diabetes* 69,624-633. DOI: 10.2337/db19-0865

Kawanishi, K., Saha, S., Diaz, S., Vaill, M., Sasmal, A., Siddiqui, S.S., Choudhury, B.P., Sharma, K., Chen, X., Schoenhofen, I.C., Sato, C., Kitajima, K., Freeze, H.H., Münster-Kühnel, A., Varki, A. (2021). Evolutionary conservation of human ketodeoxynonosonic acid production is independent of sialoglycan biosynthesis. *J Clin Invest* *131*,e137681. DOI: 10.1172/JCI137681

Klaus, C., Hansen, J.N., Ginolhac, A., Gerard, D., Gnanapragassam, V.S., Horstkorte, R., Rossdam, C., Buettner, F.F.R., Sauter, T., Sinkkonen, L., Neumann, H., Linnartz-Gerlach, B. (2020). Reduced sialylation triggers homeostatic synapse and neuronal loss in middle-aged mice *Neurobiol Aging* *88*,91-107. DOI: 10.1016/j.neurobiolaging.2020.01.008

Starzonek, S., Maar, H., Labitzky, V., Wicklein, D., Rossdam, C., Buettner, F.F.R., Wolters-Eisfeld, G., Guengoer, C., Wagener, C., Schumacher, U., Lange, T. (2020). Systematic analysis of the human tumor cell binding to human vs. murine E- and P-selectin under static vs. dynamic conditions *Glycobiology* *30*,695-709. DOI: 10.1093/glycob/cwaa019

Thiesler, H., Beimdick, J., Hildebrandt, H. (2021). Polysialic acid and Siglec-E orchestrate negative feedback regulation of microglia activation. *Cell Mol Life Sci* *78*,1637-1653. DOI: 10.1007/s00018-020-03601-z

von Hanstein, A.S., Lenzen, S., Plötz, T. (2020). Toxicity of fatty acid profiles of popular edible oils in human EndoC-betaH1 beta-cells. *Nutr Diabetes* *10*,5. DOI: 10.1038/s41387-020-0108-7

Zibolka, J., Wolf, A., Rieger, L., Rothgänger, C., Jörns, A., Lutz, B., Zimmer, A., Dehghani, F., Bazwinsky-Wutschke, I. (2020). Influence of Cannabinoid Receptor Deficiency on Parameters Involved in Blood Glucose Regulation in Mice. *Int J Mol Sci* *21*,E3168 [pii]. DOI: 10.3390/ijms21093168

Übersichtsarbeiten

Gurgul-Convey, E. (2020). Sphingolipids in Type 1 Diabetes: Focus on Beta-Cells *Cells* *9*,1835. DOI: 10.3390/cells9081835

Buchbeiträge, Monografien

Lenzen, S., Arndt, T., Elsner, M., Wedekind, D., Jörns, A. (2020). Rat Models of Human Type 1 Diabetes *Methods Mol Biol* *2128*,69-85. DOI: 10.1007/978-1-0716-0385-7_5

Litschko, C., Budde, I., Berger, M., Fiebig, T. (2021). Exploitation of Capsule Polymerases for Enzymatic Synthesis of Polysaccharide Antigens Used in Glycoconjugate Vaccines *Methods Mol Biol* *2183*,313-330. DOI: 10.1007/978-1-0716-0795-4_16

Promotionen

Ernst, J. (2019). Analyse der Funktion der ErbB-Rezeptorfamilie in der astroglialen Kontrolle hypothalamischer GnRH-Neurone der Ratte. Dissertation, Medizinische Hochschule Hannover, 2020

Thiesler, H. (2020). Polysialic acid and polysialic acid receptors as regulators of microglia and macrophage activation. Dissertation, Tierärztliche Hochschule Hannover, 2020

Masterarbeiten

Albers, M.D. (2020). Genexpressionsänderungen von Zytokin-behandelten pluripotenten Stammzellen und daraus abgeleiteten pankreatischen Zellen. Masterarbeit, Medizinische Hochschule Hannover, 2020

Albers, M.D. (2020). Untersuchung der Expression von Glykosphingolipiden in humanen pluripotenten Stammzellen und deren Derivaten. Masterarbeit, Medizinische Hochschule Hannover, 2020

Hüßers, F. (2020). Impact of the two FOXA2 isoforms on human pluripotent stem cell differentiation into insulin-producing cells. Masterarbeit, Medizinische Hochschule Hannover, 2020

Scholz, J. (2020). Entwicklung eines Verfahrens zur Analyse von Glykosaminoglykanen auf humanen pluripotenten Stammzellen und deren Derivaten. Masterarbeit, Medizinische Hochschule Hannover, 2020

Schulze, J. (2020). Identification and biochemical characterization of the capsule polymer modifying enzymes from *Actinobacillus pleuropneumoniae* serotypes 9 und 11. Masterarbeit, Medizinische Hochschule Hannover, 2020

Institut für Zellbiochemie – 4310

Originalpublikationen

Andreas, N., Weber, F., Meininger, I., Templin, N., Gaestel, M., Kamradt, T., Drube, S. (2019). IL-33-activated murine mast cells control the dichotomy between ROR γ mat(+) and Helios(+) Tregs via the MK2/3-mediated IL-6 production in vitro *Eur J Immunol* *49*,2159-2171. DOI: 10.1002/eji.201948154 [doi]

Ariana, A., Alturki, N.A., Hajjar, S., Stumpo, D.J., Tiedje, C., Alnemri, E.S., Gaestel, M., Blakeshear, P.J., Sad, S. (2020). Tristetraprolin regulates necroptosis during tonic Toll-like receptor 4 (TLR4) signaling in murine macrophages *J Biol Chem* *295*,4661-4672. DOI: 10.1074/jbc.RA119.011633

Burbano De Lara, S., Tran, D.D.H., Allister, A.B., Polenkowski, M., Nashan, B., Koch, M., Tamura, T. (2021). C20orf204, a hepatocellular carcinoma-specific protein interacts with nucleolin and promotes cell proliferation. *Oncogenesis* *10*,31. DOI: 10.1038/s41389-021-00320-3

Chobanyan-Jürgens, K., Scheibe, R.J., Potthast, A.B., Hein, M., Smith, A., Freund, R., Tegtbur, U., Das, A.M., Engeli, S., Jordan, J., Haufe, S. (2019). Influences of Hypoxia Exercise on Whole-Body Insulin Sensitivity and Oxidative Metabolism in Older Individuals *J Clin Endocrinol Metab* *104*,5238-5248. DOI: 10.1210/je.2019-00411

Davenport, C.F., Scheithauer, T., Dunst, A., Bahr, F.S., Dorda, M., Wiehlmann, L., Tran, D.D.H. (2021). Genome-Wide Methylation Mapping Using Nanopore Sequencing Technology Identifies Novel Tumor Suppressor Genes in Hepatocellular Carcinoma. *Int J Mol Sci* *22*,3937. DOI: 10.3390/ijms22083937

Ehltling, C., Rex, J., Albrecht, U., Deenen, R., Tiedje, C., Köhrer, K., Sawodny, O., Gaestel, M., Häussinger, D., Bode, J.G. (2019). Cooperative and distinct functions of MK2 and MK3 in the regulation of the macrophage transcriptional response to lipopolysaccharide *Sci Rep* *9*,11021. DOI: 10.1038/s41598-019-46791-8 [doi]

Gallo, A., Danglot, L., Giordano, F., Hewlett, B., Binz, T., Vannier, C., Galli, T. (2020). Role of the Sec22b-E-Syt complex in neurite growth and ramification. *J Cell Sci* *133*. DOI: 10.1242/jcs.247148

Helbig, C., Weber, F., Andreas, N., Herdegen, T., Gaestel, M., Kamradt, T., Drube, S. (2020). The IL-33-induced p38-/JNK1/2-TNF α axis is antagonized by activation of beta-adrenergic-receptors in dendritic cells *Sci Rep* *10*,8152. DOI: 10.1038/s41598-020-65072-3 [doi]

Kucherenko, M.M., Shcherbata, H.R. (2018). Stress-dependent miR-980 regulation of Rbfox1/A2bp1 promotes ribonucleoprotein granule formation and cell survival *Nat Commun* *9*,312-017-02757-w. DOI: 10.1038/s41467-017-02757-w [doi]

Kutle, I., Szymanska-de Wijs, K.M., Bogdanow, B., Cuvalo, B., Steinbrück, L., Jonjic, S., Wagner, K., Niedenthal, R., Selbach, M., Wiebusch, L., Dezeljin, M., Messerle, M. (2020). Murine Cytomegalovirus M25 Proteins Sequester the Tumor Suppressor Protein p53 in Nuclear Accumulations. *J Virol* *94*. DOI: 10.1128/JVI.00574-20

Leese, C., Bresnahan, R., Doran, C., Simsek, D., Fellows, A.D., Restani, L., Caleo, M., Schiavo, G., Mavlyutov, T., Henke, T., Binz, T., Davletov, B. (2020). Duplication of clostridial binding domains for enhanced macromolecular delivery into neurons. *Toxicol X* *5*,100019. DOI: 10.1016/j.toxcx.2019.100019

Nawaito, S.A., Sahadevan, P., Clavet-Lanthier, M.E., Pouliot, P., Sahmi, F., Shi, Y., Gillis, M.A., Lesage, F., Gaestel, M., Sirois, M.G., Calderone, A., Tardif, J.C., Allen, B.G. (2019). MK5 haploinsufficiency decreases collagen deposition and scar size during post-myocardial infarction wound repair *Am J Physiol Heart Circ Physiol* *316*,H1281-H1296. DOI: 10.1152/ajpheart.00532.2017 [doi]

Nawaito, S.A., Sahadevan, P., Sahmi, F., Gaestel, M., Calderone, A., Allen, B.G. (2019). Transcript levels for extracellular matrix proteins are altered in MK5-deficient cardiac ventricular fibroblasts *J Mol Cell Cardiol* *132*,164-177. DOI: 10.1016/j.yjmcc.2019.05.014

Niehus, S.E., Allister, A.B., Hoffmann, A., Wiehlmann, L., Tamura, T., Tran, D.D.H. (2019). Myc/Max dependent intronic long antisense noncoding RNA, EVA1A-AS, suppresses the expression of Myc/Max dependent anti-proliferating gene EVA1A in a U2 dependent manner *Sci Rep* *9*,17319. DOI: 10.1038/s41598-019-53944-2 [doi]

Petrova, T., Pesic, J., Pardali, K., Gaestel, M., Arthur, J.S.C. (2020). p38 MAPK signalling regulates cytokine production in IL-33 stimulated Type 2 Innate Lymphoid cells *Sci Rep* *10*,3479. DOI: 10.1038/s41598-020-60089-0

Privitera, L., Hogg, E.L., Gaestel, M., Wall, M.J., Correa, S.A.L. (2019). The MK2 cascade regulates mGluR-dependent synaptic plasticity and reversal learning *Neuropharmacology* *155*,121-130. DOI: 10.1016/j.neuropharm.2019.05.024

Qiu, R., Runxiang, Q., Geng, A., Liu, J., Xu, C.W., Menon, M.B., Gaestel, M., Lu, Q. (2020).SEPT7 Interacts with KIF20A and Regulates the Proliferative State of Neural Progenitor Cells During Cortical Development *Cereb Cortex* *30*,3030-3043. DOI: 10.1093/cercor/bhz292

Ronkina, N., Schuster-Gossler, K., Hansmann, F., Kunze-Schumacher, H., Sandrock, I., Yakovleva, T., Lafera, J., Baumgartner, W., Krueger, A., Prinz, I., Gossler, A., Kotlyarov, A., Gaestel, M. (2019).Germ Line Deletion Reveals a Nonessential Role of Atypical Mitogen-Activated Protein Kinase 6/Extracellular Signal-Regulated Kinase 3 *Mol Cell Biol* *39*,e00516-18 [pii]. DOI: 10.1128/MCB.00516

Ronkina, N., Shushakova, N., Tiedje, C., Yakovleva, T., Tollenaere, M.A.X., Scott, A., Batth, T.S., Olsen, J.V., Helmke, A., Bekker-Jensen, S.H., Clark, A.R., Kotlyarov, A., Gaestel, M. (2019).The Role of TTP Phosphorylation in the Regulation of Inflammatory Cytokine Production by MK2/3 *J Immunol* *203*,2291-2300. DOI: 10.4049/jimmunol.1801221 [doi]

Shcherbata, H.R. (2019).miRNA functions in stem cells and their niches: lessons from the Drosophila ovary *Curr Opin Insect Sci* *31*,29-36. DOI: 10.1016/j.cois.2018.07.006 [doi]

Shrestha, A., Bruckmueller, H., Kildalsen, H., Kaur, G., Gaestel, M., Wetting, H.L., Mikkola, I., Seternes, O.M. (2020).Phosphorylation of steroid receptor coactivator-3 (SRC-3) at serine 857 is regulated by the p38(MAPK)-MK2 axis and affects NF-kappaB-mediated transcription *Sci Rep* *10*,11388. DOI: 10.1038/s41598-020-68219-4

Sikorra, S., Donald, S., Elliott, M., Schwede, S., Coker, S.F., Kupinski, A.P., Tripathi, V., Foster, K., Beard, M., Binz, T. (2020).Engineering an Effective Human SNAP-23 Cleaving Botulinum Neurotoxin A Variant. *Toxins (Basel)* *12*,DOI: 10.3390/toxins12120804

Tollenaere, M.A.X., Tiedje, C., Rasmussen, S., Nielsen, J.C., Vind, A.C., Blasius, M., Batth, T.S., Mailand, N., Olsen, J.V., Gaestel, M., Bekker-Jensen, S. (2019).GIGYF1/2-Driven Cooperation between ZNF598 and TTP in Posttranscriptional Regulation of Inflammatory Signaling *Cell Rep* *26*,3511-3521.e4. DOI: 10.1016/j.celrep.2019.03.006

Tripathi, D., Biswas, B., Manhas, A., Singh, A., Goyal, D., Gaestel, M., Jagavelu, K. (2019).Proinflammatory Effect of Endothelial Microparticles Is Mitochondria Mediated and Modulated Through MAPKAPK2 (MAPK-Activated Protein Kinase 2) Leading to Attenuation of Cardiac Hypertrophy *Arterioscler Thromb Vasc Biol* *39*,1100-1112. DOI: 10.1161/ATVBAHA.119.312533 [doi]

Trulley, P., Snieckute, G., Bekker-Jensen, D., Menon, M.B., Freund, R., Kotlyarov, A., Olsen, J.V., Diaz-Munoz, M.D., Turner, M., Bekker-Jensen, S., Gaestel, M., Tiedje, C. (2019).Alternative Translation Initiation Generates a Functionally Distinct Isoform of the Stress-Activated Protein Kinase MK2 *Cell Rep* *27*,2859-2870.e6. DOI: 10.1016/j.celrep.2019.05.024

Yatsenko, A.S., Kucherenko, M.M., Xie, Y., Aweida, D., Urlaub, H., Scheibe, R.J., Cohen, S., Shcherbata, H.R. (2020).Profiling of the muscle-specific dystroglycan interactome reveals the role of Hippo signaling in muscular dystrophy and age-dependent muscle atrophy *BMC Med* *18*,8. DOI: 10.1186/s12916-019-1478-3

Yatsenko, A.S., Shcherbata, H.R. (2018).Stereotypical architecture of the stem cell niche is spatiotemporally established by miR-125-dependent coordination of Notch and steroid signaling *Development* *145*,pii: dev159178. DOI: 10.1242/dev.159178 [doi]

Übersichtsarbeiten

Kucherenko, M.M., Shcherbata, H.R. (2018).miRNA targeting and alternative splicing in the stress response - events hosted by membraneless compartments *J Cell Sci* *131*,jcs202002. DOI: 10.1242/jcs.202002 [doi]

Habilitationen

Ronkina, N. (2020). Generierung und Charakterisierung von Maus-Knockout-Modellen zum Verständnis der physiologischen Rolle der MAPKAP Kinasen. Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Promotionen

Vauth, M. (2019). Charakterisierung neuer Substrate und einer krankheitsrelevanten Mutation der MAPKAP-Kinasen Dissertation, Medizinische Hochschule Hannover, 2019

Willjes, G.M. (2020). Analyse des Bindungsmodus von Botulinum Neurotoxin Typ G und seinem Proteinrezeptor Synaptotagmin Dissertation, Medizinische Hochschule Hannover, 2020

Kliniken/Institute der Sektion II

Zentrum Innere Medizin

Klinik für Dermatologie, Allergologie und Venerologie – 6600

Originalpublikationen

Abraham, S., Haufe, E., Harder, I., Heratizadeh, A., Kleinheinz, A., Wollenberg, A., Weisshaar, E., Augustin, M., Wiemers, F., Zink, A., Biedermann, T., von Kiedrowski, R., Hilgers, M., Worm, M., Pawlak, M., Sticherling, M., Fell, I., Handrick, C., Schäkel, K., Staubach, P., Asmussen, A., Schwarz, B., Bell, M., Neubert, K., Effendy, I., Bieber, T., Homey, B., Gerlach, B., Tchitcherina, E., Stahl, M., Schwichtenberg, U., Rossbacher, J., Buck, P., Mempel, M., Beisert, S., Werfel, T., Weidinger, S., Schmitt, J., TREATgermany study group. (2020). Implementation of dupilumab in routine care of atopic eczema: results from the German national registry TREATgermany. *Br J Dermatol* 183,382-384. DOI: 10.1111/bjd.18958

Amaral, T., Kiecker, F., Schaefer, S., Stege, H., Kaehler, K., Terheyden, P., Gesierich, A., Gutzmer, R., Haferkamp, S., Uttikal, J., Berking, C., Rafei-Shamsabadi, D., Reinhardt, L., Meier, F., Karoglan, A., Posch, C., Gambichler, T., Pfoehler, C., Thoms, K., Tietze, J., Debus, D., Herbst, R., Emmert, S., Loquai, C., Hassel, J.C., Meiss, F., Tueting, T., Heinrich, V., Eigentler, T., Garbe, C., Zimmer, L., *German Dermatological Cooperative Oncology Group. (2020). Combined immunotherapy with nivolumab and ipilimumab with and without local therapy in patients with melanoma brain metastasis: a DeCOG* study in 380 patients *J Immunother Cancer* 8,DOI: 10.1136/jitc-2019-000333

Ascierto, P.A., Del Vecchio, M., Mackiewicz, A., Robert, C., Chiarion-Sileni, V., Arance, A., Lebbe, C., Svane, I.M., McNeil, C., Rutkowski, P., Loquai, C., Mortier, L., Hamid, O., Bastholt, L., Dreno, B., Schadendorf, D., Garbe, C., Nyakas, M., Grob, J.J., Thomas, L., Liskay, G., Smylie, M., Hoeller, C., Ferraresi, V., Grange, F., Gutzmer, R., Pikiel, J., Hosein, F., Simsek, B., Maio, M. (2020). Overall survival at 5 years of follow-up in a phase III trial comparing ipilimumab 10 mg/kg with 3 mg/kg in patients with advanced melanoma *J Immunother Cancer* 8,DOI: 10.1136/jitc-2019-000391

Ascierto, P.A., Dummer, R., Gogas, H.J., Flaherty, K.T., Arance, A., Mandala, M., Liskay, G., Garbe, C., Schadendorf, D., Krajsova, I., Gutzmer, R., de Groot, J.W.B., Loquai, C., Gollerkeri, A., Pickard, M.D., Robert, C. (2020). Update on tolerability and overall survival in COLUMBUS: landmark analysis of a randomised phase 3 trial of encorafenib plus binimetinib vs vemurafenib or encorafenib in patients with BRAF V600-mutant melanoma *Eur J Cancer* 126,33-44. DOI: 10.1016/j.ejca.2019.11.016

Drakaki, A., Dhillon, P.K., Wakelee, H., Chui, S.Y., Shim, J., Kent, M., Degaonkar, V., Hoang, T., McNally, V., Luhn, P., Gutzmer, R. (2020). Association of baseline systemic corticosteroid use with overall survival and time to next treatment in patients receiving immune checkpoint inhibitor therapy in real-world US oncology practice for advanced non-small cell lung cancer, melanoma, or urothelial carcinoma *Oncoimmunology* 9,1824645. DOI: 10.1080/2162402X.2020.1824645

Dummer, R., Liu, L., Squitieri, N., Gutzmer, R., Lear, J. (2020). Expression of Glioma-associated oncogene homolog 1 as biomarker with sonidegib in advanced basal cell carcinoma *Oncotarget* 11,3473-3483. DOI: 10.18632/oncotarget.27735

Eggermont, A.M.M., Blank, C.U., Mandala, M., Long, G.V., Atkinson, V.G., Dalle, S., Haydon, A.M., Meshcheryakov, A., Khattak, A., Carlino, M.S., Sandhu, S., Larkin, J., Puig, S., Ascierto, P.A., Rutkowski, P., Schadendorf, D., Koonstra, R., Hernandez-Aya, L., Di Giacomo, A.M., van den Eertwegh, A.J.M., Grob, J.J., Gutzmer, R., Jamal, R., Lorigan, P.C., van Akkooi, A.C.J., Krepler, C., Ibrahim, N., Marreaud, S., Kicinski, M., Suci, S., Robert, C. (2020). Longer Follow-Up Confirms Recurrence-Free Survival Benefit of Adjuvant Pembrolizumab in High-Risk Stage III Melanoma: Updated Results From the EORTC 1325-MG/KEYNOTE-054 Trial *J Clin Oncol* 38,3925-3936. DOI: 10.1200/JCO.20.02110

Eggermont, A.M.M., Kicinski, M., Blank, C.U., Mandala, M., Long, G.V., Atkinson, V., Dalle, S., Haydon, A., Khattak, A., Carlino, M.S., Sandhu, S., Larkin, J., Puig, S., Ascierto, P.A., Rutkowski, P., Schadendorf, D., Koonstra, R., Hernandez-Aya, L., Di Giacomo, A.M., van den Eertwegh, A.J.M., Grob, J.J., Gutzmer, R., Jamal, R., Lorigan, P.C., Krepler, C., Ibrahim, N., Marreaud, S., van Akkooi, A., Robert, C., Suci, S. (2020). Association Between Immune-Related Adverse Events and Recurrence-Free Survival Among Patients With Stage III Melanoma Randomized to Receive Pembrolizumab or Placebo: A Secondary Analysis of a Randomized Clinical Trial *JAMA Oncol* 6,519-527. DOI: 10.1001/jamaoncol.2019.5570

Francuzik, W., Rueff, F., Bauer, A., Bilo, M.B., Cardona, V., Christoff, G., Dölle-Bierke, S., Ensina, L., Fernandez Rivas, M., Hawranek, T., O'B Hourihane, J., Jakob, T., Papadopoulos, N.G., Pföhler, C., Poziomkowska-Gesicka, I., Van der Brempt, X., Scherer Hofmeier, K., Treudler, R., Wagner, N., Wedi, B., Worm, M. (2021). Phenotype and risk factors of venom-induced anaphylaxis: A case-control study of the European Anaphylaxis Registry. *J Allergy Clin Immunol* 147,653-662.e9. DOI: 10.1016/j.jaci.2020.06.008

Fricke, D., Becker, A., Heratizadeh, A., Knigge, S., Jütte, L., Wollweber, M., Werfel, T., Roth, B.W., Glasmacher, B. (2020). Mueller Matrix Analysis of Collagen and Gelatin Containing Samples Towards More Objective Skin Tissue Diagnostics. *Polymers (Basel)* *12*, DOI: 10.3390/polym12061400

Gutzmer, R., Stroyakovskiy, D., Gogas, H., Robert, C., Lewis, K., Protsenko, S., Pereira, R.P., Eigentler, T., Rutkowski, P., Demidov, L., Manikhas, G.M., Yan, Y., Huang, K.C., Uyei, A., McNally, V., McArthur, G.A., Ascierto, P.A. (2020). Atezolizumab, vemurafenib, and cobimetinib as first-line treatment for unresectable advanced BRAF(V600) mutation-positive melanoma (IMspire150): primary analysis of the randomised, double-blind, placebo-controlled, phase 3 trial *Lancet* *395*,1835-1844. DOI: 10.1016/S0140-6736(20)30934-X

Hauschild, A., Ascierto, P.A., Schadendorf, D., Grob, J.J., Ribas, A., Kiecker, F., Dutriaux, C., Demidov, L.V., Lebbe, C., Rutkowski, P., Blank, C.U., Gutzmer, R., Millward, M., Kefford, R., Haas, T., D'Amelio, A., Jr, Gasal, E., Mookerjee, B., Chapman, P.B. (2020). Long-term outcomes in patients with BRAF V600-mutant metastatic melanoma receiving dabrafenib monotherapy: Analysis from phase 2 and 3 clinical trials *Eur J Cancer* *125*,114-120. DOI: 10.1016/j.ejca.2019.10.033

Knispel, S., Stang, A., Zimmer, L., Lax, H., Gutzmer, R., Heinzerling, L., Weishaupt, C., Pföhler, C., Gesierich, A., Herbst, R., Kaehler, K.C., Weide, B., Berking, C., Loquai, C., Utikal, J., Terheyden, P., Kaatz, M., Schlaak, M., Kreuter, A., Ulrich, J., Mohr, P., Dippel, E., Livingstone, E., Becker, J.C., Weichenthal, M., Chorti, E., Gronewold, J., Schadendorf, D., Ugurel, S. (2020). Impact of a preceding radiotherapy on the outcome of immune checkpoint inhibition in metastatic melanoma: a multicenter retrospective cohort study of the DeCOG J Immunother Cancer *8*, DOI: 10.1136/jitc-2019-000395

Kocatürk, E., Salman, A., Cherrez-Ojeda, I., Ricardo Criado, P., Peter, J., Comert-Ozer, E., Abuzakouk, M., Camara Agondi, R., Al-Ahmad, M., Altrichter, S., Arnaout, R., Arruda, L.K., Asero, R., Bauer, A., Ben-Shoshan, M., Bernstein, J.A., Bizjak, M., Boccon-Gibod, I., Bonnekoh, H., Bouillet, L., Brzoza, Z., Busse, P., Campos, R.A., Carne, E., Conlon, N., Criado, R.F., de Souza Lima, E.M., Demir, S., Dissemond, J., Dogan Günaydin, S., Dorofeeva, I., Felipe Ensina, L., Ertas, R., Mariel Ferrucci, S., Figueras-Nart, I., Fomina, D., Franken, S.M., Fukunaga, A., Gimenez-Arnau, A.M., Godse, K., Goncalo, M., Gotua, M., Grattan, C., Guillet, C., Inomata, N., Jakob, T., Karakaya, G., Kasperska-Zajac, A., Katelaris, C.H., Kosnik, M., Krasowska, D., Kulthanan, K., Sendhil Kumaran, M., Lang, C., Ignacio Larco-Sousa, J., Lazaridou, E., Anika Leslie, T., Lippert, U., Calderon Llosa, O., Makris, M., Marsland, A., Medina, I.V., Meshkova, R., Bastos Palitot, E., Parisi, C.A.S., Pickert, J., Ramon, G.D., Rodriguez-Gonzalez, M., Rosario, N., Rudenko, M., Rutkowski, K., Sanchez, J., Schliemann, S., Sekerel, B.E., Serpa, F.S., Serra-Baldrich, E., Song, Z., Soria, A., Staevska, M., Staubach, P., Tagka, A., Takahagi, S., Thomsen, S.F., Treudler, R., Vadasz, Z., Oliveira Rodrigues Valle, S., Van Doorn, M.B.A., Vestergaard, C., Wagner, N., Wang, D., Wang, L., Wedi, B., Xepapadaki, P., Yücel, E., Zalewska-Janowska, A., Zhao, Z., Zuberbier, T., Maurer, M. (2021). The global impact of the COVID-19 pandemic on the management and course of chronic urticaria. *Allergy* *76*,816-830. DOI: 10.1111/all.14687

Kopfnagel, V., Dreyer, S., Baumert, K., Stark, M., Harder, J., Hofmann, K., Kleine, M., Buch, A., Sodeik, B., Werfel, T. (2020). RNase 7 promotes sensing of self-DNA by human keratinocytes and activates an antiviral immune response *J Invest Dermatol* *140*,1589-1598.e3. DOI: 10.1016/j.jid.2019.09.029

Leiter, U., Loquai, C., Reinhardt, L., Rafei-Shamsabadi, D., Gutzmer, R., Kaehler, K., Heinzerling, L., Hassel, J.C., Glutsch, V., Sirokay, J., Schlecht, N., Rubben, A., Gambichler, T., Schatton, K., Pfoehler, C., Franklin, C., Terheyden, P., Haferkamp, S., Mohr, P., Bischof, L., Livingstone, E., Zimmer, L., Weichenthal, M., Schadendorf, D., Meiwes, A., Keim, U., Garbe, C., Becker, J.C., Ugurel, S. (2020). Immune checkpoint inhibition therapy for advanced skin cancer in patients with concomitant hematological malignancy: a retrospective multicenter DeCOG study of 84 patients *J Immunother Cancer* *8*, DOI: 10.1136/jitc-2020-000897

Livingstone, E., Zaremba, A., Horn, S., Ugurel, S., Casalini, B., Schlaak, M., Hassel, J.C., Herbst, R., Utikal, J.S., Weide, B., Gutzmer, R., Meier, F., Koelsche, C., Hadaschik, E., Sucker, A., Reis, H., Merkelbach-Bruse, S., Siewert, M., Sahm, F., von Deimling, A., Cosgarea, I., Zimmer, L., Schadendorf, D., Schilling, B., Griewank, K.G. (2020). GNAQ and GNA11 mutant non-uvular melanoma: a subtype distinct from both cutaneous and uveal melanoma *Br J Dermatol* *183*,928-939. DOI: 10.1111/bjd.18947

Möbus, L., Rodriguez, E., Harder, I., Schwarz, A., Wehkamp, U., Stölzl, D., Boraczynski, N., Gerdes, S., Litman, T., Kleinheinz, A., Abraham, S., Heratizadeh, A., Handrick, C., Haufe, E., Schmitt, J., Werfel, T., Weidinger, S., TREATgermany Study Group. (2021). Elevated NK-cell transcriptional signature and dysbalance of resting and activated NK cells in atopic dermatitis *J Allergy Clin Immunol* *147*,1959-1965.e2. DOI: 10.1016/j.jaci.2020.11.022

Möbus, L., Rodriguez, E., Harder, I., Stölzl, D., Boraczynski, N., Gerdes, S., Kleinheinz, A., Abraham, S., Heratizadeh, A., Handrick, C., Haufe, E., Werfel, T., Schmitt, J., Weidinger, S., TREATgermany study group. (2021). Atopic dermatitis displays stable and dynamic skin transcriptome signatures. *J Allergy Clin Immunol* *147*,213-223. DOI: 10.1016/j.jaci.2020.06.012

Möhn, N., Mahjoub, S., Gutzmer, R., Satzger, I., Beutel, G., Ivanyi, P., Golpon, H., Wattjes, M.P., Stangel, M., Skripuletz, T. (2020). Diagnosis and Differential Diagnosis of Neurological Adverse Events during Immune Checkpoint Inhibitor Therapy *J Oncol* *2020*, DOI: 10.1155/2020/8865054

Rischin, D., Migden, M.R., Lim, A.M., Schmults, C.D., Khushalani, N.I., Hughes, B.G.M., Schadendorf, D., Dunn, L.A., Hernandez-Aya, L., Chang, A.L.S., Modi, B., Hauschild, A., Ulrich, C., Eigentler, T., Stein, B., Pavlick, A.C., Geiger, J.L., Gutzmer, R., Alam, M., Okoye, E.,

Mathias, M., Jankovic, V., Stankevich, E., Booth, J., Li, S., Lowy, I., Fury, M.G., Guminski, A. (2020).Phase 2 study of cemiplimab in patients with metastatic cutaneous squamous cell carcinoma: primary analysis of fixed-dosing, long-term outcome of weight-based dosing *J Immunother Cancer* 8;DOI: 10.1136/jitc-2020-000775

Roszbach, K., Wahle, K., Bruer, G., Brehm, R., Langeheine, M., Rode, K., Schaper-Gerhardt, K., Gutzmer, R., Werfel, T., Kietzmann, M., Bäumer, W. (2020).Histamine 2 Receptor Agonism and Histamine 4 Receptor Antagonism Ameliorate Inflammation in a Model of Psoriasis *Acta Derm Venereol* 100;adv00342. DOI: 10.2340/00015555-3674

Salzmann, M., Leiter, U., Loquai, C., Zimmer, L., Ugurel, S., Gutzmer, R., Thoms, K.M., Enk, A.H., Hassel, J.C. (2020).Programmed cell death protein 1 inhibitors in advanced cutaneous squamous cell carcinoma: real-world data of a retrospective, multicenter study *Eur J Cancer* 138;125-132. DOI: 10.1016/j.ejca.2020.07.029

Schamschula, E., Hagmann, W., Assenov, Y., Hedtfeld, S., Farag, A.K., Roesner, L.M., Wiehlmann, L., Stanke, F., Fischer, S., Risch, A., Tümmler, B. (2021).Immunotyping of clinically divergent p.Phe508del homozygous monozygous cystic fibrosis twins *J Cyst Fibros* 20;149-153. DOI: 10.1016/j.jcf.2020.06.009

Siegels, D., Heratizadeh, A., Abraham, S., Binnmyr, J., Brockow, K., Irvine, A.D., Halken, S., Mortz, C.G., Flohr, C., Schmid-Grendelmeier, P., Van der Poel, L.A., Muraro, A., Weidinger, S., Werfel, T., Schmitt, J., European Academy of Allergy,Clinical Immunology Atopic Dermatitis Guideline group. (2021).Systemic treatments in the management of atopic dermatitis: A systematic review and meta-analysis. *Allergy* 76;1053-1076. DOI: 10.1111/all.14631

Steeb, T., Wessely, A., Alter, M., Bayerl, C., Bender, A., Bruning, G., Dabrowski, E., Debus, D., Devereux, N., Dippel, E., Drexler, K., Dücker, P., Dummer, R., Emmert, S., Elsner, P., Enk, A., Gebhardt, C., Gesierich, A., Goebeler, M., Goerdts, S., Goetze, S., Gutzmer, R., Haferkamp, S., Hansel, G., Hassel, J.C., Heinzerling, L., Kähler, K.C., Kaume, K.M., Krapf, W., Kreuzberg, N., Lehmann, P., Livingstone, E., Löffler, H., Loquai, C., Mauch, C., Mangana, J., Meier, F., Meissner, M., Moritz, R.K.C., Maul, L.V., Müller, V., Mohr, P., Navarini, A., Van Nguyen, A., Pfeiffer, C., Pföhler, C., Posch, C., Richtig, E., Rempel, R., Sachse, M.M., Sauder, S., Schadendorf, D., Schatton, K., Schulze, H.J., Schultz, E., Schilling, B., Schmuth, M., Simon, J.C., Streit, M., Terheyden, P., Thiem, A., Tüting, T., Welzel, J., Weyandt, G., Wesselmann, U., Wollina, U., Ziemer, M., Zimmer, L., Zutt, M., Berking, C., Schlaak, M., Heppt, M.V., German Dermatologic Cooperative Oncology Group (DeCOG,committee ocular melanoma). (2021).Patterns of care and follow-up care of patients with uveal melanoma in German-speaking countries: a multinational survey of the German Dermatologic Cooperative Oncology Group (DeCOG) *J Cancer Res Clin Oncol* 147;1763-1771. DOI: 10.1007/s00432-020-03450-0

Uter, W., Werfel, T., Lepoittevin, J.P., White, I.R. (2020).Contact Allergy-Emerging Allergens and Public Health Impact *Int J Environ Res Public Health* 17;DOI: 10.3390/ijerph17072404

Wedi, B. (2020).Eignen sich kationisch-amphiphile H1-Antihistaminika zur adjuvanten Therapie des malignen Melanoms? *Hautarzt* 71;653-655. DOI: 10.1007/s00105-020-04652-w

Wedi, B., Gehring, M., Kapp, A. (2020).The pseudoallergen receptor MRGPRX2 on peripheral blood basophils and eosinophils: Expression and function. *Allergy* 75;2229-2242. DOI: 10.1111/all.14213

Whitehouse, H., Uter, W., Geier, J., Ballmer-Weber, B., Bauer, A., Cooper, S., Czarnecka-Operacz, M., Dagmar, S., Dickel, H., Fortina, A.B., Gallo, R., Gimenez-Arnau, A.M., Johnston, G.A., Filon, F.L., Mahler, V., Pesonen, M., Rustemeyer, T., Schuttelaar, M.L.A., Valiukeviciene, S., Weisshaar, E., Werfel, T., Wilkinson, M. (2021).Formaldehyde 2% is not a useful means of detecting allergy to formaldehyde releasers- results of the ESSCA network, 2015-2018 Contact Dermatitis 84;95-102. DOI: 10.1111/cod.13691

Wollenberg, A., Flohr, C., Simon, D., Cork, M.J., Thyssen, J.P., Bieber, T., de Bruin-Weller, M.S., Weidinger, S., Deleuran, M., Taieb, A., Paul, C., Trzeciak, M., Werfel, T., Seneschal, J., Barbarot, S., Darsow, U., Torrelo, A., Stalder, J.F., Svensson, A., Hijnen, D., Gelmetti, C., Szalai, Z., Gieler, U., De Raeve, L., Kunz, B., Spuls, P., von Kobyletzki, L.B., Fölster-Holst, R., Chernyshov, P.V., Christen-Zaech, S., Heratizadeh, A., Ring, J., Vestergaard, C. (2020).European Task Force on Atopic Dermatitis statement on severe acute respiratory syndrome coronavirus 2 (SARS-Cov-2) infection and atopic dermatitis. *J Eur Acad Dermatol Venereol* 34;e241-e242. DOI: 10.1111/jdv.16411

Zimmer, L., Livingstone, E., Hassel, J.C., Fluck, M., Eigentler, T., Loquai, C., Haferkamp, S., Gutzmer, R., Meier, F., Mohr, P., Hauschild, A., Schilling, B., Menzer, C., Kieker, F., Dippel, E., Rösch, A., Simon, J.C., Conrad, B., Körner, S., Windemuth-Kieselbach, C., Schwarz, L., Garbe, C., Becker, J.C., Schadendorf, D., Dermatologic Cooperative Oncology Group. (2020).Adjuvant nivolumab plus ipilimumab or nivolumab monotherapy versus placebo in patients with resected stage IV melanoma with no evidence of disease (IMMUNED): a randomised, double-blind, placebo-controlled, phase 2 trial *Lancet* 395;1558-1568. DOI: 10.1016/S0140-6736(20)30417-7

Leitlinien von Fachgesellschaften

Heppt, M.V., Leiter, U., Steeb, T., Amaral, T., Bauer, A., Becker, J.C., Breitbart, E., Breuninger, H., Diepgen, T., Dirschka, T., Eigentler, T., Flaig, M., Follmann, M., Fritz, K., Greinert, R., Gutzmer, R., Hillen, U., Ihrler, S., John, S.M., Kölbl, O., Kraywinkel, K., Löser, C., Nashan, D., Noor, S., Nothacker, M., Pfannenberger, C., Salavastru, C., Schmitz, L., Stockfleth, E., Szeimies, R.M., Ulrich, C., Welzel, J., Wermker, K., Berking, C., Garbe, C. (2020).S3 guideline for actinic keratosis and cutaneous squamous cell carcinoma - short version, part 1: diagnosis,

interventions for actinic keratoses, care structures and quality-of-care indicators J Dtsch Dermatol Ges 18,275-294. DOI: 10.1111/ddg.14048

Leiter, U., Heppt, M.V., Steeb, T., Amaral, T., Bauer, A., Becker, J.C., Breitbart, E., Breuninger, H., Diepgen, T., Dirschka, T., Eigentler, T., Flaig, M., Follmann, M., Fritz, K., Greinert, R., Gutzmer, R., Hillen, U., Ihrler, S., John, S.M., Kölbl, O., Kraywinkel, K., Löser, C., Nashan, D., Noor, S., Nothacker, M., Pfannenberger, C., Salavastru, C., Schmitz, L., Stockfleth, E., Szeimies, R.M., Ulrich, C., Welzel, J., Wermker, K., Garbe, C., Berking, C. (2020).S3 guideline for actinic keratosis and cutaneous squamous cell carcinoma (cSCC) - short version, part 2: epidemiology, surgical and systemic treatment of cSCC, follow-up, prevention and occupational disease J Dtsch Dermatol Ges 18,400-413. DOI: 10.1111/ddg.14072

Leiter, U., Heppt, M.V., Steeb, T., Amaral, T., Bauer, A., Becker, J.C., Breitbart, E., Breuninger, H., Diepgen, T., Dirschka, T., Eigentler, T., Flaig, M., Follmann, M., Fritz, K., Greinert, R., Gutzmer, R., Hillen, U., Ihrler, S., John, S.M., Kölbl, O., Kraywinkel, K., Löser, C., Nashan, D., Noor, S., Nothacker, M., Pfannenberger, C., Salavastru, C., Schmitz, L., Stockfleth, E., Szeimies, R.M., Ulrich, C., Welzel, J., Wermker, K., Garbe, C., Berking, C. (2020).S3-Leitlinie "Aktinische Keratose und Plattenepithelkarzinom der Haut" - Kurzfassung, Teil 2: Epidemiologie, chirurgische und systemische Therapie des Plattenepithelkarzinoms, Nachsorge, Prävention und Berufskrankheit J Dtsch Dermatol Ges 18,400-413. DOI: 10.1111/ddg.14072_g

Wollenberg, A., Barbarot, S., Bieber, T., Christen-Zaech, S., Deleuran, M., Fink-Wagner, A., Gieler, U., Girolomoni, G., Lau, S., Muraro, A., Czarnecka-Operacz, M., Schäfer, T., Schmid-Grendelmeier, P., Simon, D., Szalai, Z., Szepietowski, J.C., Taieb, A., Torrelo, A., Werfel, T., Ring, J., European Dermatology Forum (EDF), the European Academy of Dermatology and Venereology (EADV), the European Academy of Allergy and Clinical Immunology (EAACI), the European Task Force on Atopic Dermatitis (ETFAD), European Federation of Allergy and Airways Diseases Patients'Associations (EFA), the European Society for Dermatology and Psychiatry (ESDaP), the European Society of Pediatric Dermatology (ESPD), Global Allergy and Asthma European Network (GA2LEN) and the European Union of Medical Specialists (UEMS). (2018).Consensus-based European guidelines for treatment of atopic eczema (atopic dermatitis) in adults and children: part I J Eur Acad Dermatol Venereol 32,657-682. DOI: 10.1111/jdv.14891

Wollenberg, A., Christen-Zäch, S., Taieb, A., Paul, C., Thyssen, J.P., de Bruin-Weller, M., Vestergaard, C., Seneschal, J., Werfel, T., Cork, M.J., Kunz, B., Fölster-Holst, R., Trzeciak, M., Darsow, U., Szalai, Z., Deleuran, M., von Kobyletzki, L., Barbarot, S., Heratizadeh, A., Gieler, U., Hijnen, D.J., Weidinger, S., De Raevae, L., Svensson, A., Simon, D., Stalder, J.F., Ring, J., European Task Force on Atopic Dermatitis/EADV Eczema Task Force. (2020).ETFAD/EADV Eczema task force 2020 position paper on diagnosis and treatment of atopic dermatitis in adults and children J Eur Acad Dermatol Venereol 34,2717-2744. DOI: 10.1111/jdv.16892

Wurpts, G., Aberer, W., Dickel, H., Brehler, R., Jakob, T., Kreft, B., Mahler, V., Merk, H.F., Mülleneisen, N., Ott, H., Pfützner, W., Röseler, S., Rueff, F., Sitter, H., Sunderkötter, C., Trautmann, A., Treudler, R., Wedi, B., Worm, M., Brockow, K. (2020).Guideline on diagnostic procedures for suspected hypersensitivity to beta-lactam antibiotics: Guideline of the German Society for Allergology and Clinical Immunology (DGAKI) in collaboration with the German Society of Allergology (AeDA), German Society for Pediatric Allergology and Environmental Medicine (GPA), the German Contact Dermatitis Research Group (DKG), the Austrian Society for Allergology and Immunology (OGAI), and the Paul-Ehrlich Society for Chemotherapy (PEG). Allergol Select 4,11-43. DOI: 10.5414/ALX02104E

Übersichtsarbeiten

Buhl, T., Beissert, S., Gaffal, E., Goebeler, M., Hertl, M., Mauch, C., Reich, K., Schmidt, E., Schön, M.P., Sticherling, M., Sunderkötter, C., Traidl-Hoffmann, C., Werfel, T., Wilsman-Theis, D., Worm, M. (2020).COVID-19 und Auswirkungen auf dermatologische und allergologische Erkrankungen J Dtsch Dermatol Ges 18,815-825. DOI: 10.1111/ddg.14195_g

Dummer, R., Ascierto, P.A., Basset-Seguín, N., Dreno, B., Garbe, C., Gutzmer, R., Hauschild, A., Krattinger, R., Lear, J.T., Malvey, J., Schadendorf, D., Grob, J.J. (2020).Sonidegib and vismodegib in the treatment of patients with locally advanced basal cell carcinoma: a joint expert opinion J Eur Acad Dermatol Venereol 34,1944-1956. DOI: 10.1111/jdv.16230

Gülsen, A., Wedi, B., Jappe, U. (2020).Hypersensitivity reactions to biologics (part I): allergy as an important differential diagnosis in complex immune-derived adverse events. Allergo J 29,32-61. DOI: 10.1007/s15007-020-2550-1

Gülsen, A., Wedi, B., Jappe, U. (2020).Hypersensitivity reactions to biologics (part I): allergy as an important differential diagnosis in complex immune-derived adverse events. Allergo J Int 1-29. DOI: 10.1007/s40629-020-00126-6

Gutzmer, R., Vordermark, D., Hassel, J.C., Krex, D., Wendl, C., Schadendorf, D., Sickmann, T., Rieken, S., Pukrop, T., Höller, C., Eigentler, T.K., Meier, F. (2020).Melanoma brain metastases - Interdisciplinary management recommendations 2020 Cancer Treat Rev 89,102083. DOI: 10.1016/j.ctrv.2020.102083

Hoffmann-Sommergruber, K., Roesner, L.M. (2020).The clinical impact of cross-reactions between allergens on allergic skin diseases Curr Opin Allergy Clin Immunol 20,374-380. DOI: 10.1097/ACI.0000000000000650

Honstein, T., Werfel, T. (2020).The show must go on: an update on clinical experiences and clinical studies on novel pharmaceutical developments for the treatment of atopic dermatitis Curr Opin Allergy Clin Immunol 20,386-394. DOI: 10.1097/ACI.0000000000000652

Kähler, K.C., Hassel, J.C., Heinzerling, L., Loquai, C., Thoms, K.M., Ugurel, S., Zimmer, L., Gutzmer, R., committee on "Cutaneous Adverse Events" of the German Working Group for Dermatological Oncology (Arbeitsgemeinschaft Dermatologische Onkologie, ADO). (2020). Side effect management during immune checkpoint blockade using CTLA-4 and PD-1 antibodies for metastatic melanoma - an update *J Dtsch Dermatol Ges* 18,582-609. DOI: 10.1111/ddg.14128

Klimek, L., Pfaar, O., Worm, M., Bergmann, K.C., Bieber, T., Buhl, R., Buters, J., Darsow, U., Keil, T., Kleine-Tebbe, J., Lau, S., Maurer, M., Merk, H., Mösges, R., Saloga, J., Staubach, P., Stute, P., Rabe, K., Rabe, U., Vogelmeier, C., Biedermann, T., Jung, K., Schlenker, W., Ring, J., Chaker, A., Wehrmann, W., Becker, S., Mülleneisen, N., Nemat, K., Czech, W., Wrede, H., Brehler, R., Fuchs, T., Tomazic, P.V., Aberer, W., Fink-Wagner, A., Horak, F., Wöhrl, S., Niederberger-Leppin, V., Pali-Schöll, I., Pohl, W., Roller-Wirnsberger, R., Spranger, O., Valenta, R., Akdis, M., Akdis, C., Hoffmann-Sommergruber, K., Jutel, M., Matricardi, P., Spertin, F., Khaltayev, N., Michel, J.P., Nicod, L., Schmid-Grendelmeier, P., Hamelmann, E., Jakob, T., Werfel, T., Wagenmann, M., Taube, C., Gerstlauer, M., Vogelberg, C., Bousquet, J., Zuberbier, T. (2020). Allergen immunotherapy in the current COVID-19 pandemic: A position paper of AeDA, ARIA, EAACI, DGAKI and GPA: Position paper of the German ARIA Group(A) in cooperation with the Austrian ARIA Group(B), the Swiss ARIA Group(C), German Society for Applied Allergology (AEDA)(D), German Society for Allergology and Clinical Immunology (DGAKI)(E), Society for Pediatric Allergology (GPA)(F) in cooperation with AG Clinical Immunology, Allergology and Environmental Medicine of the DGHNO-KHC(G) and the European Academy of Allergy and Clinical Immunology (EAACI)(H) *Allergol Select* 4,44-52. DOI: 10.5414/ALX02147E

Leiter, U., Gutzmer, R., Alter, M., Ulrich, C., Meiwes, A., Heppt, M.V., Steeb, T., Berking, C., Lonsdorf, A.S., Sachse, M.M., Garbe, C., Hillen, U. (2020). Kutanes Plattenepithelkarzinom *Hautarzt* 71,597-606. DOI: 10.1007/s00105-020-04620-4

Luger, T., Augustin, M., Lambert, J., Paul, C., Pincelli, C., Torrelo, A., Vestergaard, C., Wahn, U., Werfel, T. (2021). Unmet medical needs in the treatment of atopic dermatitis in infants: An Expert consensus on safety and efficacy of pimecrolimus *Pediatr Allergy Immunol* 32,414-424. DOI: 10.1111/pai.13422

Maurer, M., Eyerich, K., Eyerich, S., Ferrer, M., Guterth, J., Hartmann, K., Jakob, T., Kapp, A., Kolkhir, P., Larenas-Linnemann, D., Park, H.S., Pejler, G., Sanchez-Borges, M., Schäkel, K., Simon, D., Simon, H.U., Weller, K., Zuberbier, T., Metz, M. (2020). Urticaria: Collegium Internationale Allergologicum (CIA) Update 2020 *Int Arch Allergy Immunol* 181,321-333. DOI: 10.1159/000507218

Misery, L., Belloni Fortina, A., El Hachem, M., Chernyshov, P., von Kobyletzki, L., Heratizadeh, A., Marcoux, D., Aoki, V., Zaniboni, M.C., Stalder, J.F., Eichenfield, L.F. (2021). A position paper on the management of itch and pain in atopic dermatitis from the International Society of Atopic Dermatitis (ISAD)/Oriented Patient-Education Network in Dermatology (OPENED) task force. *J Eur Acad Dermatol Venereol* 35,787-796. DOI: 10.1111/jdv.16916

Pfaar, O., Agache, I., Bergmann, K.C., Bindslev-Jensen, C., Bousquet, J., Creticos, P.S., Devillier, P., Durham, S.R., Hellings, P., Kaul, S., Kleine-Tebbe, J., Klimek, L., Jacobsen, L., Jutel, M., Muraro, A., Papadopoulos, N.G., Rief, W., Scadding, G.K., Schedlowski, M., Shamji, M.H., Sturm, G., van Ree, R., Vidal, C., Vieths, S., Wedi, B., Gerth van Wijk, R., Frew, A.J. (2021). Placebo effects in allergen immunotherapy - an EAACI Task Force Position Paper *Allergy* 76,629-647. DOI: 10.1111/all.14331

Thyssen, J.P., Vestergaard, C., Deleuran, M., de Bruin-Weller, M.S., Bieber, T., Taieb, A., Seneschal, J., Cork, M.J., Paul, C., Flohr, C., Weidinger, S., Trzeciak, M., Werfel, T., Heratizadeh, A., Barbarot, S., Darsow, U., Simon, D., Torrelo, A., Chernyshov, P.V., Stalder, J.F., Gelmetti, C., Szalai, Z., Svensson, A., von Kobyletzki, L.B., De Raev, L., Fölster-Holst, R., Cristen-Zaech, S., Hijnen, D., Gieler, U., Ring, J., Wollenberg, A. (2020). European Task Force on Atopic Dermatitis (ETFAD): treatment targets and treatable traits in atopic dermatitis. *J Eur Acad Dermatol Venereol* 34,e839-e842. DOI: 10.1111/jdv.16716

Wedi, B. (2020). Ligelizumab for the treatment of chronic spontaneous urticaria. *Expert Opin Biol Ther* 20,853-861. DOI: 10.1080/14712598.2020.1767061

Wedi, B., Zuberbier, T. (2020). Ein Überblick über die Urtikaria. *Allergo J* 29,56-61. DOI: 10.1007/s15007-020-2566-6

Wohlrab, J., Mrowietz, U., Weidinger, S., Werfel, T., Wollenberg, A. (2021). Handlungsempfehlung zur Therapieumstellung von Immunsuppressiva auf Dupilumab bei Patienten mit atopischer Dermatitis *Hautarzt* 72,321-327. DOI: 10.1007/s00105-020-04720-1

Zeitvogel, J., Werfel, T. (2020). Einsatz von 2-D- und 3-D-Kulturen in der Dermatologie *Hautarzt* 71,91-100. DOI: 10.1007/s00105-019-04537-7

Letter

Mommert, S., Schaper, J.T., Schaper-Gerhardt, K., Gutzmer, R., Werfel, T. (2021). Histamine down-regulates the FCER1 alpha-chain expression in human IL-4-activated M2 macrophages *Allergy* 76,1250-1254. DOI: 10.1111/all.14576

Moritz, R.K.C., Gutzmer, R., Zimmer, L., Meier, F., Ahmed, M.S., Sell, S., Schlaak, M., Kapp, F., Sachse, M.M., Haferkamp, S., Welzel, J., Kähler, K.C., Weichenthal, M. (2020). SARS-CoV-2 infections in melanoma patients treated with PD-1 inhibitors: A survey of the German ADOREG melanoma registry *Eur J Cancer* DOI: 10.1016/j.ejca.2020.11.015

Schaper-Gerhardt, K., Köther, B., Wolff, L., Kabatas, A., Gehring, M., Nikolouli, E., Mommert, S., Werfel, T., Gutzmer, R. (2021). The H4 R is highly expressed on eosinophils from AD patients and IL-4 upregulates expression and function via the JAK/STAT pathway *Allergy* *76*,1261-1264. DOI: 10.1111/all.14599

Wedi, B., Gehring, M., Kapp, A. (2020). Reply to Sabato V et al "Surface expression of MRGPRX2 expression on resting basophils: An area of controversy". *Allergy* *75*,2424-2427. DOI: 10.1111/all.14446

Case reports

Lehner, G.M., Schacht, V., Angela, Y., Satzger, I., Gutzmer, R. (2020). Erfolgreiche Behandlung eines metastasierenden Melanoms mit Talmogen laherparepvec (T-VEC) bei einer lebertransplantierten Patientin *J Dtsch Dermatol Ges* *18*,1495-1497. DOI: 10.1111/ddg.14284_g

Traidl, S., Angela, Y., Wedi, B., Kapp, A., Werfel, T., Schacht, V. (2021). Langerhans cell histiocytosis mimicking prurigo nodularis. *J Eur Acad Dermatol Venereol* *35*,e259-e261. DOI: 10.1111/jdv.16991

Editorials

Bauer, J., Werfel, T. (2020). (Bio)Technologie und Dermatologie *Hautarzt* *71*,83-84. DOI: 10.1007/s00105-020-04542-1

Heratizadeh, A., Werfel, T. (2020). Der Wahrheit auf der Spur: Atopische Dermatitis und psychosoziale Komorbidität. *J Dtsch Dermatol Ges* *18*,87-88. DOI: 10.1111/ddg.14025_g

Buchbeiträge, Monografien

Wedi, B. (2020). Urticaria and Angioedema. In: Braun-Falco's *Dermatology*, Plewig G., eds. (Berlin, Heidelberg: Springer) pp. 1-26

sonstiges

Kind, J., Jünger, M., Kapp, A., Kaufmann, R., Krutmann, J., Merk, H.F., Ruzicka, T., die Schriftleitung *Der Hautarzt*. (2020). Thanks to Prof. Dr. Michael Meurer : Editors and publisher thank the long-serving editor of the journal *Der Hautarzt*. English version *Hautarzt* *71*,82-83. DOI: 10.1007/s00105-020-04701-4

Liu, D., Schilling, B., Liu, D., Sucker, A., Livingstone, E., Jerby-Arnon, L., Zimmer, L., Gutzmer, R., Satzger, I., Loquai, C., Grabbe, S., Vokes, N., Margolis, C.A., Conway, J., He, M.X., Elmarakeby, H., Dietlein, F., Miao, D., Tracy, A., Gogas, H., Goldinger, S.M., Utikal, J., Blank, C.U., Rauschenberg, R., von Bubnoff, D., Krackhardt, A., Weide, B., Haferkamp, S., Kiecker, F., Izar, B., Garraway, L., Regev, A., Flaherty, K., Paschen, A., Van Allen, E.M., Schadendorf, D. (2020). Author Correction: Integrative molecular and clinical modeling of clinical outcomes to PD1 blockade in patients with metastatic melanoma *Nat Med* *26*,1147. DOI: 10.1038/s41591-020-0975-4

Promotionen

Engmann, J. (2019). Die erhöhte Aktivität und Apoptose von eosinophilen Granulozyten in der Blasenflüssigkeit, Haut und dem peripherem Blut von Patienten mit bullösem Pemphigoid. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Gräger, N. (2019). Risikofaktoren für das Auftreten von Hauttumoren nach Lungentransplantation. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Gregor, K. (2019). Einfluss der Histamin-Rezeptoren auf Effektorfunktionen von humanen M2-Makrophagen. Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Gastroenterologie, Hepatologie und Endokrinologie – 6810

Originalpublikationen

Aberle, J., Menzen, M., Schmid, S.M., Terkamp, C., Jaeckel, E., Rohwedder, K., Scheerer, M.F., Xu, J., Tang, W., Birkenfeld, A.L. (2020). Dapagliflozin effects on haematocrit, red blood cell count and reticulocytes in insulin-treated patients with type 2 diabetes *Sci Rep* *10*,22396. DOI: 10.1038/s41598-020-78734-z

Abou-Alfa, G.K., Sahai, V., Hollebecque, A., Vaccaro, G., Melisi, D., Al-Rajabi, R., Paulson, A.S., Borad, M.J., Gallinson, D., Murphy, A.G., Oh, D.Y., Dotan, E., Catenacci, D.V., Van Cutsem, E., Ji, T., Lihou, C.F., Zhen, H., Feliz, L., Vogel, A. (2020). Pemigatinib for previously treated, locally advanced or metastatic cholangiocarcinoma: a multicentre, open-label, phase 2 study *Lancet Oncol* *21*,671-684. DOI: 10.1016/S1470-2045(20)30109-1

- Aguirre-Gamboa, R., de Klein, N., di Tommaso, J., Claringbould, A., van der Wijst, M.G., de Vries, D., Brugge, H., Oelen, R., Vösa, U., Zorro, M.M., Chu, X., Bakker, O.B., Borek, Z., Ricano-Ponce, I., Deelen, P., Xu, C.J., Swertz, M., Jonkers, I., Withoff, S., Joosten, I., Sanna, S., Kumar, V., Koenen, H.J.P.M., Joosten, L.A.B., Netea, M.G., Wijmenga, C., BIOS Consortium, Franke, L., Li, Y. (2020). Deconvolution of bulk blood eQTL effects into immune cell subpopulations *BMC Bioinformatics* *21*,243. DOI: 10.1186/s12859-020-03576-5
- Al-Batran, S.E., Hofheinz, R.D., Reichart, A., Pauligk, C., Schönherr, C., Schlag, R., Siegler, G., Dörfel, S., Koenigsmann, M., Zahn, M.O., Schubert, J., Aldaoud, A., Höffkes, H.G., Schulz, H., Hahn, L., Uhlig, J., Blau, W., Stauch, M., Weniger, J., Wolf, M., Jacobasch, L., Bildat, S., Wehmeyer, J., Homann, N., Trojan, J., Waidmann, O., Fietz, T., Feustel, H.P., Groschek, M., Wierecky, J., Waibel, K., Mahlmann, S., Schwindel, U., Peters, U., Schuch, G., Pink, D., Eschenburg, H., Wörns, M.A., Harich, H.D., von Weikersthal, L.F., Dässler, K.U., Behringer, D.M., Messmann, H., Kretschmar, A., Gallmeier, E., Forstbauer, H., Kunzmann, V., Papke, J., Büchner-Steudel, P., Vehling-Kaiser, U., Springfeld, C., Vogel, A., Ettrich, T.J., Schaaf, M., Hausen, G.Z., Götze, T.O., Arbeitsgemeinschaft Internistische Onkologie (AIO). (2021). Quality of life and outcome of patients with metastatic pancreatic cancer receiving first-line chemotherapy with nab-paclitaxel and gemcitabine: Real-life results from the prospective QOLIXANE trial of the Platform for Outcome, Quality of Life and Translational Research on Pancreatic Cancer registry *Int J Cancer* *148*,1478-1488. DOI: 10.1002/ijc.33336
- Alizadeh, R., Bahmanpoor, Z., Jalali-Qomi, S., Amiri, M., Afkhami, H., Khaledi, M., Moosavi, R., Akouchekian, M. (2021). MicroRNA-targeted signaling pathways in the Autism spectrum disorder: implications for early detection and targeted therapy *CNS Neurol Disord Drug Targets* *20*,68-75. DOI: 10.2174/1871527319666200907123315
- Alsina, A., Kudo, M., Vogel, A., Cheng, A.L., Tak, W.Y., Ryoo, B.Y., Evans, T.R.J., Lopez Lopez, C., Daniele, B., Misir, S., Ren, M., Izumi, N., Qin, S., Finn, R.S. (2020). Effects of Subsequent Systemic Anticancer Medication Following First-Line Lenvatinib: A Post Hoc Responder Analysis from the Phase 3 REFLECT Study in Unresectable Hepatocellular Carcinoma *Liver Cancer* *9*,93-104. DOI: 10.1159/000504624 [doi]
- Alves Vasconcelos, M.P., Dall'Acqua, D.V., Wedemeyer, H., Witkin, S.S., Mendes-Correa, M.C., Villalobos-Salcedo, J.M. (2020). Noninvasive Models for Predicting Liver Fibrosis in Individuals with Hepatitis D Virus/Hepatitis B Virus Coinfection in the Brazilian Amazon Region *Am J Trop Med Hyg* *103*,169-174. DOI: 10.4269/ajtmh.19-0688
- Anastasiou, O.E., Theissen, M., Verheyen, J., Bleekmann, B., Wedemeyer, H., Widera, M., Ciesek, S. (2019). Clinical and Virological Aspects of HBV Reactivation: A Focus on Acute Liver Failure. *Viruses* *11*,E863 [pii]. DOI: 10.3390/v11090863
- Anastasiou, O.E., Thodou, V., Berger, A., Wedemeyer, H., Ciesek, S. (2020). Comprehensive Evaluation of Hepatitis E Serology and Molecular Testing in a Large Cohort *Pathogens* *9*,137. DOI: 10.3390/pathogens9020137
- Anastasiou, O.E., Yurdaydin, C., Maasoumy, B., Hardtke, S., Alexandru Caruntu, F., Curescu, M.G., Yalcin, K., Akarca, U.S., Gürel, S., Zeuzem, S., Erhardt, A., Lüth, S., Papatheodoridis, G.V., Radu, M., Liebig, S., Bantel, H., Bremer, B., Manns, M.P., Cornberg, M., Wedemeyer, H. (2021). A transient early HBV DNA increase during PEG-IFN α therapy of hepatitis D indicates loss of infected cells and is associated with HDV RNA and HBsAg reduction *J Viral Hepat* *28*,410-419. DOI: 10.1111/jvh.13439
- Atkinson, S.R., Grove, J.I., Liebig, S., Astbury, S., Vergis, N., Goldin, R., Quaglia, A., Bantel, H., Guha, I.N., Thursz, M.R., Newcombe, P., Strnad, P., Aithal, G.P. (2020). In Severe Alcoholic Hepatitis, Serum Keratin-18 Fragments Are Diagnostic, Prognostic, and Theragnostic Biomarkers *Am J Gastroenterol* *115*,1857-1868. DOI: 10.14309/ajg.0000000000000912
- Bankwitz, D., Bahai, A., Labuhn, M., Doepke, M., Ginkel, C., Khera, T., Todt, D., Ströh, L.J., Dold, L., Klein, F., Klawonn, F., Krey, T., Behrendt, P., Cornberg, M., McHardy, A.C., Pietschmann, T. (2021). Hepatitis C reference viruses highlight potent antibody responses and diverse viral functional interactions with neutralising antibodies *Gut* *70*,1734-1745. DOI: 10.1136/gutjnl-2020-321190
- Bannaga, A.S., Metzger, J., Kyrou, I., Voigtländer, T., Book, T., Melgarejo, J., Latosinska, A., Pejchinovski, M., Staessen, J.A., Mischak, H., Manns, M.P., Arasaradnam, R.P. (2020). Discovery, validation and sequencing of urinary peptides for diagnosis of liver fibrosis-A multicentre study *EBioMedicine* *62*,103083. DOI: 10.1016/j.ebiom.2020.103083
- Bantel, H., Denk, G., Hinrichsen, H., Hohenester, S., Kahraman, A., Kremer, A., Nierhoff, D., Rupp, C., Schiefke, I., Vermehren, J., Wiegand, J. (2020). Primäre biliäre Cholangitis (PBC): Extrahepatische Manifestationen der PBC - Leitfaden für den Praxisalltag. *Lehre & Praxis* *6*,11-20.
- Becker, L.S., Gutberlet, M., Maschke, S.K., Werncke, T., Dewald, C.L.A., von Falck, C., Vogel, A., Kloeckner, R., Meyer, B.C., Wacker, F., Hinrichs, J.B. (2021). Evaluation of a Motion Correction Algorithm for C-Arm Computed Tomography Acquired During Transarterial Chemoembolization *Cardiovasc Intervent Radiol* *44*,610-618. DOI: 10.1007/s00270-020-02729-6
- Becker, L.S., Stahl, K., Meine, T.C., von Falck, C., Meyer, B.C., Dewald, C.L.A., Rittgerodt, N., Busch, M., David, S., Wacker, F., Hinrichs, J.B. (2020). Non-occlusive mesenteric ischemia (NOMI): evaluation of 2D-perfusion angiography (2D-PA) for early treatment response assessment *Abdom Radiol (NY)* *45*,3342-3351. DOI: 10.1007/s00261-020-02457-y

- Bedreli, S., Straub, K., Achterfeld, A., Willuweit, K., Katsounas, A., Saner, F., Wedemeyer, H., Herzer, K. (2019).The Effect of Immunosuppression on Coagulation After Liver Transplantation. *Liver Transpl* *25*,1054-1065. DOI: 10.1002/lt.25476
- Bekaii-Saab, T.S., Valle, J.W., Cutsem, E.V., Rimassa, L., Furuse, J., Ioka, T., Melisi, D., Macarulla, T., Bridgewater, J., Wasan, H., Borad, M.J., Abou-Alfa, G.K., Jiang, P., Lihou, C.F., Zhen, H., Asatiani, E., Feliz, L., Vogel, A. (2020).FIGHT-302: first-line pemigatinib vs gemcitabine plus cisplatin for advanced cholangiocarcinoma with FGFR2 rearrangements *Future Oncol* *16*,2385-2399. DOI: 10.2217/fo-2020-0429
- Binh, M.T., Hoan, N.X., Giang, D.P., Tong, H.V., Bock, C.T., Wedemeyer, H., Toan, N.L., Bang, M.H., Kremsner, P.G., Meyer, C.G., Song, L.H., Velavan, T.P. (2020).Upregulation of SMYD3 and SMYD3 VNTR 3/3 polymorphism increase the risk of hepatocellular carcinoma *Sci Rep* *10*,2797. DOI: 10.1038/s41598-020-59667-z
- Boltin, D., Lambregts, D.M., Jones, F., Siterman, M., Bonovas, S., Cornberg, M., Khannoussi, W., Doherty, G., Quality of Care Taskforce, U. (2020).UEG framework for the development of high-quality clinical guidelines *United European Gastroenterol J* *8*,851-864. DOI: 10.1177/2050640620950854
- Book, T., Kirstein, M.M., Schneider, A., Manns, M.P., Voigtländer, T. (2020).Endoscopic decompression of acute intestinal distension is associated with reduced mortality in critically ill patients. *BMC Gastroenterol* *20*,87. DOI: 10.1186/s12876-020-01233-y
- Bremer, B., Anastasiou, O.E., Hardtke, S., Caruntu, F.A., Curescu, M.G., Yalcin, K., Akarca, U.S., Gürel, S., Zeuzem, S., Erhardt, A., Lüth, S., Papatheodoridis, G.V., Radu, M., Idilman, R., Manns, M.P., Cornberg, M., Yurdaydin, C., Wedemeyer, H. (2021).Residual low HDV viraemia is associated HDV RNA relapse after PEG-IFNa-based antiviral treatment of hepatitis delta: Results from the HIDIT-II study *Liver Int* *41*,295-299. DOI: 10.1111/liv.14740
- Brown, R.J.P., Tegtmeyer, B., Sheldon, J., Khera, T., Anggakusuma, Todt, D., Vieyres, G., Weller, R., Joecks, S., Zhang, Y., Sake, S., Bankwitz, D., Welsch, K., Ginkel, C., Engelmann, M., Gerold, G., Steinmann, E., Yuan, Q., Ott, M., Vondran, F.W.R., Krey, T., Ströh, L.J., Miskey, C., Ivics, Z., Herder, V., Baumgärtner, W., Lauber, C., Seifert, M., Tarr, A.W., McClure, C.P., Randall, G., Baktash, Y., Ploss, A., Thi, V.L.D., Michailidis, E., Saeed, M., Verhoye, L., Meuleman, P., Goedecke, N., Wirth, D., Rice, C.M., Pietschmann, T. (2020).Liver-expressed Cd302 and Cr11 limit hepatitis C virus cross-species transmission to mice *Sci Adv* *6*,DOI: 10.1126/sciadv.abd3233
- Buitrago-Molina, L.E., Pietrek, J., Noyan, F., Schlue, J., Manns, M.P., Wedemeyer, H., Hardtke-Wolenski, M., Jaeckel, E. (2020).Treg-specific IL-2 therapy can reestablish intrahepatic immune regulation in autoimmune hepatitis. *J Autoimmun* *117*,DOI: 10.1016/j.jaut.2020.102591
- Cañón Bermúdez, G.S., Kruv, A., Voitsekhivska, T., Hochnadel, I., Lebanov, A., Potthoff, A., Fassbender, J., Yevsa, T., Makarov, D. (2019).Implantable Highly Compliant Devices for Heating of Internal Organs: Toward Cancer Treatment. *Adv Eng Mater* *21*,1900407. DOI: <https://doi.org/10.1002/adem.201900407>
- Carvalho Oliveira, M., Valdivia, E., Verboom, M., Yuzefovych, Y., Sake, H.J., Pogozhykh, O., Niemann, H., Schwinzer, R., Petersen, B., Seisler, J., Blasczyk, R., Figueiredo, C. (2020).Generating low immunogenic pig pancreatic islet cell clusters for xenotransplantation *J Cell Mol Med* *24*,5070-5081. DOI: 10.1111/jcmm.15136
- Chen, L., Li, J., Ye, Z., Sun, B., Wang, L., Chen, Y., Han, J., Yu, M., Wang, Y., Zhou, Q., Seidler, U., Tian, D., Xiao, F. (2020).Anti-High Mobility Group Box 1 Neutralizing-Antibody Ameliorates Dextran Sodium Sulfate Colitis in Mice *Front Immunol* *11*,DOI: 10.3389/fimmu.2020.585094
- Chen, L.T., Martinelli, E., Cheng, A.L., Pentheroudakis, G., Qin, S., Bhattacharyya, G.S., Ikeda, M., Lim, H.Y., Ho, G.F., Choo, S.P., Ren, Z., Malhotra, H., Ueno, M., Ryoo, B.Y., Kiang, T.C., Tai, D., Vogel, A., Cervantes, A., Lu, S.N., Yen, C.J., Huang, Y.H., Chen, S.C., Hsu, C., Shen, Y.C., Taberner, J., Yen, Y., Hsu, C.H., Yoshino, T., Douillard, J.Y. (2020).Pan-Asian adapted ESMO Clinical Practice Guidelines for the management of patients with intermediate and advanced/relapsed hepatocellular carcinoma: a TOS-ESMO initiative endorsed by CSCO, ISMPO, JSMO, KSMO, MOS and SSO *Ann Oncol* *31*,334-351. DOI: 10.1016/j.annonc.2019.12.001
- Chen, Y., Huang, H., He, Y., Chen, M., Seidler, U., Tian, D., Xiao, F. (2020).A20 Haploinsufficiency in a Chinese Patient With Intestinal Behcet's Disease-Like Symptoms: A Case Report *Front Immunol* *11*,1414. DOI: 10.3389/fimmu.2020.01414
- Chen, Y., Ye, Z., Chen, L., Qin, T., Seidler, U., Tian, D., Xiao, F. (2020).Association of Clinical Phenotypes in Haploinsufficiency A20 (HA20) With Disrupted Domains of A20 *Front Immunol* *11*,DOI: 10.3389/fimmu.2020.574992
- de Salazar, A., Dietz, J., di Maio, V.C., Vermehren, J., Paolucci, S., Mullhaupt, B., Coppola, N., Cabezas, J., Stauber, R.E., Puoti, M., Arenas Ruiz Tapiador, J.I., Graf, C., Aragri, M., Jimenez, M., Callegaro, A., Pascasio Acevedo, J.M., Macias Rodriguez, M.A., Rosales Zabal, J.M., Micheli, V., Garcia Del Toro, M., Tellez, F., Garcia, F., Sarrazin, C., Ceccherini-Silberstein, F., GEHEP-004 cohort, the European HCV Resistance Study Group and the HCV Virology Italian Resistance Network (VIRONET C). (2020).Prevalence of resistance-associated

substitutions and retreatment of patients failing a glecaprevir/pibrentasvir regimen. *J Antimicrob Chemother* 75,3349-3358. DOI: 10.1093/jac/dkaa304

Derben, F.C., Engel, B., Zachou, K., Hartl, J., Hartleben, B., Bantel, H., Schramm, C., Dalekos, G.N., Manns, M.P., Jaeckel, E., Taubert, R. (2021). CK-18 cell death markers improve the prediction of histological remission in autoimmune hepatitis during biochemical remission *Liver Int* 41,123-127. DOI: 10.1111/liv.14699

Dewald, C.L.A., Becker, L.S., Maschke, S.K., Meine, T.C., Alten, T.A., Kirstein, M.M., Vogel, A., Wacker, F.K., Meyer, B.C., Hinrichs, J.B. (2020). Percutaneous isolated hepatic perfusion (chemosaturation) with melphalan following right hemihepatectomy in patients with cholangiocarcinoma and metastatic uveal melanoma: peri- and post-interventional adverse events and therapy response compared to a matched group without prior liver surgery *Clin Exp Metastasis* 37,683-692. DOI: 10.1007/s10585-020-10057-9

Dietz, J., Kalinina, O.V., Vermehren, J., Peiffer, K.H., Matschenz, K., Buggisch, P., Niederau, C., Schattenberg, J.M., Müllhaupt, B., Yerly, S., Ringelhan, M., Schmid, R.M., Antoni, C., Müller, T., Schulze Zur Wiesch, J., Piecha, F., Moradpour, D., Deterding, K., Wedemeyer, H., Moreno, C., Berg, T., Berg, C.P., Zeuzem, S., Welsch, C., Sarrazin, C., European HCV Resistance Study Group. (2020). Resistance-associated substitutions in patients with chronic hepatitis C virus genotype 4 infection. *J Viral Hepat* 27,974-986. DOI: 10.1111/jvh.13322

Dietz, J., Spengler, U., Müllhaupt, B., Schulze Zur Wiesch, J., Piecha, F., Mauss, S., Seegers, B., Hinrichsen, H., Antoni, C., Wietzke-Braun, P., Peiffer, K.H., Berger, A., Matschenz, K., Buggisch, P., Backhus, J., Zizer, E., Boettler, T., Neumann-Haefelin, C., Semela, D., Stauber, R., Berg, T., Berg, C., Zeuzem, S., Vermehren, J., Sarrazin, C., European HCV Resistance Study Group. (2021). Efficacy of Retreatment After Failed Direct-acting Antiviral Therapy in Patients With HCV Genotype 1-3 Infections *Clin Gastroenterol Hepatol* 19,195. DOI: 10.1016/j.cgh.2019.10.051

Eichholz, J.C., Kirstein, M.M., Book, T., Wedemeyer, H., Voigtländer, T. (2021). Transjugular liver biopsy and hepatic venous pressure gradient measurement in patients with and without liver cirrhosis. *Eur J Gastroenterol Hepatol* 33,1583-1587. DOI: 10.1097/MEG.0000000000001904

Eismann, H., Sieg, L., Ahmed, H., Teske, J., Behrendt, P., Friedrich, L., Schumacher, C., Johanning, K. (2020). Influence of alcohol consumption on blood coagulation in rotational thromboelastometry (ROTEM): an in-vivo study *Korean J Anesthesiol* 73,334-341. DOI: 10.4097/kja.20071

Engelmann, C., Sterneck, M., Weiss, K.H., Templin, S., Zopf, S., Denk, G., Eurich, D., Pratschke, J., Weiss, J., Braun, F., Welker, M.W., Zimmermann, T., Knipper, P., Nierhoff, D., Lorf, T., Jäckel, E., Hau, H.M., Tsui, T.Y., Perrakis, A., Schlitt, H.J., Herzer, K., Tacke, F. (2020). Prevention and Management of CMV Infections after Liver Transplantation: Current Practice in German Transplant Centers *J Clin Med* 9. DOI: 10.3390/jcm9082352

Flinck, M., Hagelund, S., Gorbatenko, A., Severin, M., Pedraz-Cuesta, E., Novak, I., Stock, C., Pedersen, S.F. (2020). The Vacuolar H(+) ATPase alpha3 Subunit Negatively Regulates Migration and Invasion of Human Pancreatic Ductal Adenocarcinoma Cells. *Cells* 9,465 [pii]. DOI: 10.3390/cells9020465

Franck, M., Schütte, K., Malfertheiner, P., Link, A. (2020). Prognostic value of serum microRNA-122 in hepatocellular carcinoma is dependent on coexisting clinical and laboratory factors *World J Gastroenterol* 26,86-96. DOI: 10.3748/wjg.v26.i1.86

Franck, M., Thon, C., Schütte, K., Malfertheiner, P., Link, A. (2020). Circulating miR-21-5p level has limited prognostic value in patients with hepatocellular carcinoma and is influenced by renal function. *World J Hepatol* 12,1031-1045. DOI: 10.4254/wjh.v12.i11.1031

Gabriel, M.M., Kircheis, G., Hardtke, S., Markwardt, D., Buggisch, P., Mix, H., Grüngreif, K., Welzel, T.M., Kalsch, J., Hartmann, H., Gerbes, A.L., Karpowitz, M.V., Seeliger, B., Wedemeyer, H., Weissenborn, K., HepNet HE-Register Study Group. (2021). Risk of recurrent hepatic encephalopathy in patients with liver cirrhosis: a German registry study. *Eur J Gastroenterol Hepatol* 33,1185-1193. DOI: 10.1097/MEG.0000000000001822

Gao, X., Nowak-Imialek, M., Chen, X., Chen, D., Herrmann, D., Ruan, D., Chen, A.C.H., Eckersley-Maslin, M.A., Ahmad, S., Lee, Y.L., Kobayashi, T., Ryan, D., Zhong, J., Zhu, J., Wu, J., Lan, G., Petkov, S., Yang, J., Antunes, L., Campos, L.S., Fu, B., Wang, S., Yong, Y., Wang, X., Xue, S.G., Ge, L., Liu, Z., Huang, Y., Nie, T., Li, P., Wu, D., Pei, D., Zhang, Y., Lu, L., Yang, F., Kimber, S.J., Reik, W., Zou, X., Shang, Z., Lai, L., Surani, A., Tam, P.P.L., Ahmed, A., Yeung, W.S.B., Teichmann, S.A., Niemann, H., Liu, P. (2019). Establishment of porcine and human expanded potential stem cells *Nat Cell Biol* 21,687-699. DOI: 10.1038/s41556-019-0333-2

Goepfert, B., Folseraas, T., Roessler, S., Kloor, M., Volckmar, A.L., Endris, V., Buchhalter, I., Stenzinger, A., Grzyb, K., Grimsrud, M.M., Gornicka, B., von Seth, E., Reynolds, G.M., Franke, A., Gotthardt, D.N., Mehrabi, A., Cheung, A., Verheij, J., Arola, J., Makisalo, H., Eide, T.J., Weidemann, S., Chevillat, J.C., Mazza, G., Hirschfeld, G.M., Ponsioen, C.Y., Bergquist, A., Milkiewicz, P., Lazaridis, K.N., Schramm, C., Manns, M.P., Färkkilä, M., Vogel, A., International PSC study group, Boberg, K.M., Schirmacher, P., Karlsen, T.H. (2020). Genomic

characterization of cholangiocarcinoma in primary sclerosing cholangitis reveals novel therapeutic opportunities *Hepatology* *72*,1253-1266. DOI: 10.1002/hep.31110

Goetze, T.O., Bechstein, W.O., Bankstahl, U.S., Keck, T., Königsrainer, A., Lang, S.A., Pauligk, C., Piso, P., Vogel, A., Al-Batran, S.E. (2020). Neoadjuvant chemotherapy with gemcitabine plus cisplatin followed by radical liver resection versus immediate radical liver resection alone with or without adjuvant chemotherapy in incidentally detected gallbladder carcinoma after simple cholecystectomy or in front of radical resection of BTC (ICC/ECC) - a phase III study of the German registry of incidental gallbladder carcinoma platform (GR)- the AIO/CALGP/ ACO- GAIN-trial *BMC Cancer* *20*,122. DOI: 10.1186/s12885-020-6610-4

Gunesch, A.P., Zapatero-Belinchon, F.J., Pinkert, L., Steinmann, E., Manns, M.P., Schneider, G., Pietschmann, T., Brönstrup, M., von Hahn, T. (2020). Filovirus antiviral activity of cationic amphiphilic drugs is associated with lipophilicity and ability to induce phospholipidosis *Antimicrob Agents Chemother* *64*,e00143-20. DOI: 10.1128/AAC.00143-20

Gutierrez-Anez, J.C., Lucas-Hahn, A., Hadeler, K.G., Aldag, P., Niemann, H. (2021). Melatonin enhances in vitro developmental competence of cumulus-oocyte complexes collected by ovum pick-up in prepubertal and adult dairy cattle *Theriogenology* *161*,285-293. DOI: 10.1016/j.theriogenology.2020.12.011

Haubold, J., Reinboldt, M.P., Wetter, A., Li, Y., Ludwig, J.M., Lange, C., Wedemeyer, H., Schotten, C., Umutlu, L., Theysohn, J. (2020). DSM-TACE des HCC: Bewertung des Tumoransprechens von Patienten mit Kontraindikationen gegen andere systemische oder lokoregionale Therapien *Röfo* *192*,862-869. DOI: 10.1055/a-1111-9955

Heck, J., Ranker, A., Wranke, A., Kano, L., Macke, C., Rademacher, J., Stichtenoth, D.O., Krause, O. (2021). Die interdisziplinäre alterstraumatologische Visite : Empfehlungen für den Klinikalltag *Unfallchirurg* *124*,138-145. DOI: 10.1007/s00113-020-00833-3

Heim, K., Binder, B., Sagar, Wieland, D., Hensel, N., Llewellyn-Lacey, S., Gostick, E., Price, D.A., Emmerich, F., Vingerhoet, H., Kraft, A.R.M., Cornberg, M., Boettler, T., Neumann-Haefelin, C., Zehn, D., Bengsch, B., Hofmann, M., Thimme, R. (2021). TOX defines the degree of CD8+ T cell dysfunction in distinct phases of chronic HBV infection *Gut* *29*,323-331. DOI: 10.1136/gutjnl-2020-322404

Hein, R., Sake, H.J., Pokoyski, C., Hundrieser, J., Brinkmann, A., Baars, W., Nowak-Imialek, M., Lucas-Hahn, A., Figueiredo, C., Schubert, H.J., Niemann, H., Petersen, B., Schwitzer, R. (2020). Triple (GGTA1, CMAH, B2M) modified pigs expressing an SLA class I(low) phenotype-Effects on immune status and susceptibility to human immune responses *Am J Transplant* *20*,988-998. DOI: 10.1111/ajt.15710

Herzer, K., Sterneck, M., Welker, M.W., Nadalin, S., Kirchner, G., Braun, F., Malessa, C., Herber, A., Pratschke, J., Weiss, K.H., Jaeckel, E., Tacke, F. (2020). Current Challenges in the Post-Transplant Care of Liver Transplant Recipients in Germany. *J Clin Med* *9*,E3570 [pii]. DOI: 10.3390/jcm9113570

Hinrichsen, H., Stoehr, A., Cornberg, M., Klinker, H., Heyne, R., John, C., Simon, K.G., Guenther, V., Martin, K., Witte, V., Zeuzem, S. (2021). Utilization and effectiveness of elbasvir/grazoprevir and adoption of resistance-associated substitutions testing in real-world treatment of hepatitis C virus genotype 1A infection: results from the German Hepatitis C-Registry *Eur J Gastroenterol Hepatol* *33*,415-423. DOI: 10.1097/MEG.0000000000001759

Hirschfield, G.M., Beuers, U., Kupcinskas, L., Ott, P., Bergquist, A., Färkkilä, M., Manns, M.P., Pares, A., Spengler, U., Stiehs, M., Greinwald, R., Pröls, M., Wendum, D., Drebber, U., Poupon, R. (2021). A placebo-controlled randomised trial of budesonide for primary biliary cholangitis following an insufficient response to UDCA. *J Hepatol* *74*,321-329. DOI: 10.1016/j.jhep.2020.09.011

Hoang, T.T., Sikdar, S., Xu, C.J., Lee, M.K., Cardwell, J., Forno, E., Imboden, M., Jeong, A., Madore, A.M., Qi, C., Wang, T., Bennett, B.D., Ward, J.M., Parks, C.G., Beane-Freeman, L.E., King, D., Motsinger-Reif, A., Umbach, D.M., Wyss, A.B., Schwartz, D.A., Celedon, J.C., Laprise, C., Ober, C., Probst-Hensch, N., Yang, I.V., Koppelman, G.H., London, S.J. (2020). Epigenome-wide association study of DNA methylation and adult asthma in the Agricultural Lung Health Study *Eur Respir J* *56*. DOI: 10.1183/13993003.00217-2020

Höfer, A., Jonigk, D., Hartleben, B., Verboom, M., Hallensleben, M., Manns, M.P., Jaeckel, E., Taubert, R. (2020). Non-invasive screening for subclinical liver graft injury in adults via donor-specific anti-HLA antibodies. *Sci Rep* *10*,14242. DOI: 10.1038/s41598-020-70938-7

Hofmann, W.P., Buggisch, P., Schubert, L., Dikopoulos, N., Schwenzer, J., Muehe, M., Felten, G., Heyne, R., Ingiliz, P., Schmidt, A., Stein, K., Wedemeyer, H., Berg, T., Wiegand, J., Lammert, F., Zeuzem, S., Schattenberg, J.M. (2020). The Fatty Liver Assessment in Germany (FLAG) cohort study identifies large heterogeneity in NAFLD care *JHEP Rep* *2*,100168. DOI: 10.1016/j.jhepr.2020.100168

Hüppe, D., Niederau, C., Serfert, Y., Hartmann, H., Wedemeyer, H., für das DHC-R. (2020). Versorgungsprobleme von Patienten mit chronischer Hepatitis C während der COVID-19-Pandemie und der Lockdown-Verordnungen *Z Gastroenterol* *58*,1182-1185. DOI: 10.1055/a-1291-8518

- Husain-Syed, F., Vadasz, I., Wilhelm, J., Walmrath, H.D., Seeger, W., Birk, H.W., Jennert, B., Dietrich, H., Herold, S., Trauth, J., Tello, K., Sander, M., Morty, R.E., Slanina, H., Schüttler, C.G., Ziebuhr, J., Kassoumeh, S., Ronco, C., Ferrari, F., Warnatz, K., Stahl, K., Seeliger, B., Hoepfer, M.M., Welte, T., David, S. (2021). Immunoglobulin Deficiency as an Indicator of Disease Severity in Patients with COVID-19 *Am J Physiol Lung Cell Mol Physiol* *320*,L590-L599. DOI: 10.1152/ajplung.00359.2020
- Ivanyi, P., Eggers, H., Hornig, M., Kasper, B., Heissner, K., Kopp, H.G., Kirstein, M., Ganser, A., Grünwald, V. (2020). Hepatic toxicity during regorafenib treatment in patients with metastatic gastrointestinal stromal tumors *Mol Clin Oncol* *13*,72. DOI: 10.3892/mco.2020.2143
- Jendry, P., Schulz, C., Twele, F., Meller, S., von Köckritz-Blickwede, M., Osterhaus, A.D.M.E., Ebbers, J., Pilchova, V., Pink, I., Welte, T., Manns, M.P., Fathi, A., Ernst, C., Addo, M.M., Schalke, E., Volk, H.A. (2020). Scent dog identification of samples from COVID-19 patients - a pilot study. *BMC Infect Dis* *20*,536. DOI: 10.1186/s12879-020-05281-3
- Kabbani, A.R., Schultalbers, M., Tergast, T., Kimmann, M., Stahmeyer, J., Manns, M.P., Cornberg, M., Maasoumy, B., Becker, H. (2020). Einfluss einer spontan bakteriellen Peritonitis, nosokomialer Infektionen und eines akut auf chronischen Leberversagens auf die Behandlungserfolge bei Patienten mit dekompensierter Leberzirrhose in Deutschland. *Z Gastroenterol* *58*,855-867. DOI: 10.1055/a-1217-7549
- Kamal, H., Westman, G., Falconer, K., Duberg, A.S., Weiland, O., Haverinen, S., Wejstal, R., Carlsson, T., Kampmann, C., Larsson, S.B., Bjorkman, P., Nystedt, A., Cardell, K., Svensson, S., Stenmark, S., Wedemeyer, H., Aleman, S. (2020). Long-Term Study of Hepatitis Delta Virus Infection at Secondary Care Centers: The Impact of Viremia on Liver-Related Outcomes. *Hepatology* *72*,1177-1190. DOI: 10.1002/hep.31214
- Kini, A., Singh, A.K., Riederer, B., Yang, I., Tan, Q., di Stefano, G., Tan, Q., Xiao, F., Xia, W., Suerbaum, S., Seidler, U. (2020). Slc26a3 deletion alters pH-microclimate, mucin biosynthesis, microbiome composition and increases the TNFalpha expression in murine colon *Acta Physiol (Oxf)* *230*,e13498. DOI: 10.1111/apha.13498
- Kirstein, M.M., Book, T., Manns, M.P., von Hahn, T., Voigtländer, T. (2020). Secondary sclerosing cholangitis in critically ill patients has a poor outcome but lower tumour incidence than primary sclerosing cholangitis. *United European Gastroenterol J* *8*,716-724. DOI: 10.1177/2050640620924274
- Kirstein, M.M., Scheiner, B., Marwede, T., Wolf, C., Voigtländer, T., Semmler, G., Wacker, F., Manns, M.P., Hinrichs, J.B., Pinter, M., Vogel, A. (2020). Sequential systemic treatment in patients with hepatocellular carcinoma. *Aliment Pharmacol Ther* *52*,205-212. DOI: 10.1111/apt.15789
- Klein, S., Ghersi, D., Manns, M.P., Prinz, I., Cornberg, M., Kraft, A.R.M. (2020). PD-L1 checkpoint inhibition narrows the antigen-specific T cell receptor repertoire in chronic LCMV infection *J Virol* *94*,e00795-20. DOI: 10.1128/JVI.00795-20
- Knop, V., Mauss, S., Goeser, T., Geier, A., Zimmermann, T., Herzer, K., Postel, N., Friedrich-Rust, M., Hofmann, W.P., German Hepatitis C-Registry. (2020). Dynamics of liver stiffness by transient elastography in patients with chronic hepatitis C (HCV) infection receiving direct acting antiviral therapy- results from the German Hepatitis C-Registry (DHC-R) *J Viral Hepat* *27*,690-698. DOI: 10.1111/jvh.13280
- Komoll, R.M., Hu, Q., Olarewaju, O., von Döhlen, L., Yuan, Q., Xie, Y., Tsay, H.C., Daon, J., Qin, R., Manns, M.P., Sharma, A.D., Goga, A., Ott, M., Balakrishnan, A. (2021). MicroRNA-342-3p is a potent tumour suppressor in hepatocellular carcinoma. *J Hepatol* *74*,122-134. DOI: 10.1016/j.jhep.2020.07.039
- Krassenburg, L.A.P., Maan, R., Ramji, A., Manns, M.P., Cornberg, M., Wedemeyer, H., de Knegt, R.J., Hansen, B.E., Janssen, H.L.A., de Man, R.A., Feld, J.J., van der Meer, A.J. (2021). Clinical outcomes following DAA therapy in patients with HCV-related cirrhosis depend on disease severity *J Hepatol* *74*,1053-1063. DOI: 10.1016/j.jhep.2020.11.021
- Krooss, S., Werwitzke, S., Kopp, J., Rovai, A., Varnholt, D., Wachs, A.S., Goyenvall, A., Aarstma-Rus, A., Ott, M., Tiede, A., Langemeier, J., Bohne, J. (2020). Pathological mechanism and antisense oligonucleotide-mediated rescue of a non-coding variant suppressing factor 9 RNA biogenesis leading to hemophilia B *PLoS Genet* *16*,DOI: 10.1371/journal.pgen.1008690
- Kropp, K.A., Srivaratharajan, S., Ritter, B., Yu, P., Krooss, S., Polten, F., Pich, A., Alcamí, A., Viejo-Borbolla, A. (2020). Identification of the Cleavage Domain within Glycoprotein G of Herpes Simplex Virus Type 2. *Viruses* *12*,E1428 [pii]. DOI: 10.3390/v12121428
- Kudo, M., Galle, P.R., Brandi, G., Kang, Y.K., Yen, C.J., Finn, R.S., Llovet, J.M., Assenat, E., Merle, P., Chan, S.L., Palmer, D.H., Ikeda, M., Yamashita, T., Vogel, A., Huang, Y.H., Abada, P.B., Yoshikawa, R., Shinozaki, K., Wang, C., Widau, R.C., Zhu, A.X. (2020). Effect of ramucirumab on ALBI grade in patients with advanced HCC: Results from REACH and REACH-2 *JHEP Rep* *3*,DOI: 10.1016/j.jhepr.2020.100215
- Kudo, M., Galle, P.R., Llovet, J.M., Finn, R.S., Vogel, A., Motomura, K., Assenat, E., Merle, P., Brandi, G., Daniele, B., Okusaka, T., Tomasek, J., Borg, C., Dadduzio, V., Morimoto, M., Pracht, M., Jen, M.H., Drove Ubreva, N., Widau, R.C., Shinozaki, K., Yoshikawa, R., Zhu,

A.X. (2020). Ramucirumab in elderly patients with hepatocellular carcinoma and elevated alpha-fetoprotein after sorafenib in REACH and REACH-2 *Liver Int* 40,2008-2020. DOI: 10.1111/liv.14462

Lampertico, P., Carrion, J.A., Curry, M., Turnes, J., Cornberg, M., Negro, F., Brown, A., Persico, M., Wick, N., Porcalla, A., Pangerl, A., Crown, E., Larsen, L., Yu, Y., Wedemeyer, H. (2020). Real-world effectiveness and safety of glecaprevir/pibrentasvir for the treatment of patients with chronic HCV infection: A meta-analysis *J Hepatol* 72,1112-1121. DOI: 10.1016/j.jhep.2020.01.025

Lampertico, P., Mauss, S., Persico, M., Barclay, S.T., Marx, S., Lohmann, K., Bondin, M., Zhang, Z., Marra, F., Belperio, P.S., Wedemeyer, H., Flamm, S. (2020). Real-World Clinical Practice Use of 8-Week Glecaprevir/Pibrentasvir in Treatment-Naive Patients with Compensated Cirrhosis. *Adv Ther* 37,4033-4042. DOI: 10.1007/s12325-020-01449-0

Lerch, M.M., Rathmayer, M., Siegmund, B., Wilke, M., Wedemeyer, H., Stallmach, A., Mayerle, J., Lammert, F. (2020). Die Grenzen des G-DRG-Systems bei der Abbildung von Komplexität in der Universitätsmedizin. *Z Gastroenterol* 58,747-753. DOI: 10.1055/a-1219-8245

Leslie, J., Macia, M.G., Luli, S., Worrell, J.C., Reilly, W.J., Paish, H.L., Knox, A., Barksby, B.S., Gee, L.M., Zaki, M.Y.W., Collins, A.L., Burgoyne, R.A., Cameron, R., Bragg, C., Xu, X., Chung, G.W., Brown, C.D.A., Blanchard, A.D., Nanthakumar, C.B., Karsdal, M., Robinson, S.M., Manas, D.M., Sen, G., French, J., White, S.A., Murphy, S., Trost, M., Zakrzewski, J.L., Klein, U., Schwabe, R.F., Mederacke, I., Nixon, C., Bird, T., Teuwen, L.A., Schoonjans, L., Carmeliet, P., Mann, J., Fisher, A.J., Sheerin, N.S., Borthwick, L.A., Mann, D.A., Oakley, F. (2020). c-Rel orchestrates energy-dependent epithelial and macrophage reprogramming in fibrosis *Nat Metab* 2,1350-1367. DOI: 10.1038/s42255-020-00306-2

Liu, Y., Tan, Q., Riederer, B., di Stefano, G., Römermann, D., Qian, J., Reiner, J., Seidler, U. (2020). Deciphering ion transporters, kinases and PDZ-adaptor molecules that mediate guanylate cyclase C agonist-dependent intestinal fluid loss in vivo *Biochem Pharmacol* 178,114040. DOI: 10.1016/j.bcp.2020.114040

Lorenzen, S., Knorrenschild, J.R., Pauligk, C., Hegewisch-Becker, S., Seraphin, J., Thuss-Patience, P., Kopp, H.G., Dechow, T., Vogel, A., Luley, K.B., Pink, D., Stahl, M., Kullmann, F., Hebart, H., Siveke, J., Egger, M., Homann, N., Probst, S., Goetze, T.O., Al-Batran, S.E. (2020). Phase III randomized, double-blind study of paclitaxel with and without everolimus in patients with advanced gastric or esophagogastric junction carcinoma who have progressed after therapy with a fluoropyrimidine/platinum-containing regimen (RADPAC) *Int J Cancer* 147,2493-2502. DOI: 10.1002/ijc.33025

Maasoumy, B., Geretti, A.M., Frontzek, A., Austin, H., Aretzweiler, G., Garcia-Alvarez, M., Leuchter, S., Simon, C.O., Marins, E.G., Cancchola, J.A., Cornberg, M., Delgado, R., Wedemeyer, H. (2020). HBV-RNA Co-amplification May Influence HBV DNA Viral Load Determination *Hepatol Commun* 4,983-997. DOI: 10.1002/hep4.1520

Mangia, A., Milligan, S., Khalili, M., Fagiuoli, S., Shafran, S.D., Carrat, F., Ouzan, D., Papatheodoridis, G., Ramji, A., Borgia, S.M., Wedemeyer, H., Losappio, R., Perez-Hernandez, F., Wick, N., Brown, R.S., Jr, Lampertico, P., Doucette, K., Ntalla, I., Ramroth, H., Mertens, M., Vanstraelen, K., Turnes, J. (2020). Global real-world evidence of sofosbuvir/velpatasvir as simple, effective HCV treatment: Analysis of 5552 patients from 12 cohorts *Liver Int* 40,1841-1852. DOI: 10.1111/liv.14537

Marcellin, P., Xie, Q., Woon Paik, S., Flisiak, R., Piratvisuth, T., Petersen, J., Asselah, T., Cornberg, M., Ouzan, D., Foster, G.R., Papatheodoridis, G., Messinger, D., Regep, L., Bakalos, G., Alshuth, U., Lampertico, P., Wedemeyer, H. (2020). Final analysis of the international observational S-Collate study of peginterferon alfa-2a in patients with chronic hepatitis B *PLoS One* 15,e0230893. DOI: 10.1371/journal.pone.0230893

Markova, A.A., Deterding, K., Port, K., Bantel, H., Manns, M.P., Cornberg, M., Wedemeyer, H. (2021). Liver stiffness across different chronic liver disease under therapy with statin in a real life cohort. *Eur J Gastroenterol Hepatol* 32,223-229. DOI: 10.1097/MEG.0000000000001719

Mederacke, Y.S., Kirstein, M.M., Grosshennig, A., Marhenke, S., Metzler, F., Manns, M.P., Vogel, A., Mederacke, I. (2020). The PNPLA3 rs738409 GG genotype is associated with poorer prognosis in 239 patients with autoimmune hepatitis. *Aliment Pharmacol Ther* 57,1160-1168. DOI: 10.1111/apt.15722

Mederacke, Y.S., Nienen, M., Jarek, M., Geffers, R., Hupa-Breier, K., Babel, N., Reinke, P., Mederacke, I., Rudolf Vondran, F.W., Jonigk, D., Wedemeyer, H., Jaeckel, E. (2021). T cell receptor repertoires within liver allografts are different to those in the peripheral blood *J Hepatol* 74,1167-1175. DOI: 10.1016/j.jhep.2020.12.014

Meine, T.C., Dewald, C.L.A., Becker, L.S., Mähringer-Kunz, A., Massoumy, B., Maschke, S.K., Kirstein, M.M., Werncke, T., Wacker, F.K., Meyer, B.C., Hinrichs, J.B. (2020). Transjugular intrahepatic portosystemic shunt placement: portal vein puncture guided by 3D/2D image registration of contrast-enhanced multi-detector computed tomography and fluoroscopy *Abdom Radiol (NY)* 45,3934-3943. DOI: 10.1007/s00261-020-02589-1

- Memaran, N., Küpper, C., Borchert-Mörlins, B., von Wick, A., Bauer, E., Jäckel, E., Maasoumy, B., Vondran, F.W.R., Sugianto, R.I., von der Born, J., Schmidt, B.M.W., Melk, A. (2021).Prospective assessment of subclinical cardiovascular damage and associated factors in liver transplant recipients *Transpl Int* *34*,127-138. DOI: 10.1111/tri.13773
- Moehler, M., Maderer, A., Thuss-Patience, P.C., Brenner, B., Meiler, J., Ettrich, T.J., Hofheinz, R.D., Al-Batran, S.E., Vogel, A., Mueller, L., Lutz, M.P., Lordick, F., Alsina, M., Borchert, K., Greil, R., Eisterer, W., Schad, A., Slotta-Huspenina, J., Van Cutsem, E., Lorenzen, S. (2020).Cisplatin and 5-fluorouracil with or without epidermal growth factor receptor inhibition panitumumab for patients with non-resectable, advanced or metastatic oesophageal squamous cell cancer: a prospective, open-label, randomised phase III AIO/EORTC trial (POWER) *Ann Oncol* *31*,228-235. DOI: 10.1016/j.annonc.2019.10.018
- Niehaus, C.E., Strunz, B., Cornillet, M., Falk, C.S., Schnieders, A., Maasoumy, B., Hardtke, S., Manns, M.P., Rm Kraft, A., Björkström, N.K., Cornberg, M. (2020).MAIT cells are enriched and highly functional in ascites of patients with decompensated liver cirrhosis *Hepatology* *72*,1378-1393. DOI: 10.1002/hep.31153
- Nowak-Imialek, M., Wunderlich, S., Herrmann, D., Breitschuh-Leibling, S., Göhring, G., Petersen, B., Klein, S., Baulain, U., Lucas-Hahn, A., Martin, U., Niemann, H. (2020).In Vitro and In Vivo Interspecies Chimera Assay Using Early Pig Embryos Cell Reprogram *22*,118-133. DOI: 10.1089/cell.2019.0107
- Odak, I., Barros-Martins, J., Bosnjak, B., Stahl, K., David, S., Wiesner, O., Busch, M., Hoepfer, M.M., Pink, I., Welte, T., Cornberg, M., Stoll, M., Goudeva, L., Blasczyk, R., Ganser, A., Prinz, I., Förster, R., Koenecke, C., Schultze-Florey, C.R. (2020).Reappearance of effector T cells is associated with recovery from COVID-19 *EBioMedicine* *57*,102885. DOI: 10.1016/j.ebiom.2020.102885
- Odak, I., Depkat-Jakob, A., Beck, M., Jarek, M., Yu, Y., Seidler, U., David, S., Ganser, A., Förster, R., Prinz, I., Koenecke, C. (2020).Donor-derived IL-17A and IL-17F deficiency triggers Th1 allo-responses and increases gut leakage during acute GVHD. *PLoS One* *15*,e0231222. DOI: 10.1371/journal.pone.0231222
- Ostroumov, D., Duong, S., Wingerath, J., Woller, N., Manns, M.P., Timrott, K., Kleine, M., Ramackers, W., Roessler, S., Nahsen, S., Czernel, S., Dittrich-Breiholz, O., Eggert, T., Kühnel, F., Wirth, T.C. (2021).Transcriptome profiling identifies TIGIT as a marker of T cell exhaustion in liver cancer. *Hepatology* *73*,1399-1418. DOI: 10.1002/hep.31466
- Pallerla, S.R., Harms, D., John, R., Todt, D., Steinmann, E., Schemmerer, M., Wenzel, J.J., Hofmann, J., Shih, J.W.K., Wedemeyer, H., Bock, C.T., Velavan, T.P. (2020).Hepatitis E Virus Infection: Circulation, Molecular Epidemiology, and Impact on Global Health Pathogens *9*,856. DOI: 10.3390/pathogens9100856
- Pallerla, S.R., Schembecker, S., Meyer, C.G., Linh, L.T.K., John, R., Wedemeyer, H., Bock, C.T., Kremsner, P.G., Velavan, T.P. (2021).Hepatitis E virus genome detection in commercial pork livers and pork meat products in Germany *J Viral Hepat* *28*,196-204. DOI: 10.1111/jvh.13396
- Pape, S., Gevers, T.J.G., Vrolijk, J.M., van Hoek, B., Bouma, G., van Nieuwkerk, C.M.J., Taubert, R., Jaeckel, E., Manns, M.P., Papp, M., Sipeki, N., Stickel, F., Efe, C., Ozaslan, E., Purnak, T., Nevens, F., Kessener, D.J.N., Kahraman, A., Wedemeyer, H., Hartl, J., Schramm, C., Lohse, A.W., Heneghan, M.A., Drenth, J.P.H. (2020).High discontinuation rate of azathioprine in autoimmune hepatitis, independent of time of treatment initiation. *Liver Int* *40*,2164-2171. DOI: 10.1111/liv.14513
- Pape, U.F., Kasper, S., Meiler, J., Sinn, M., Vogel, A., Müller, L., Burkhard, O., Caca, K., Heeg, S., Büchner-Steudel, P., Rodriguez-Laval, V., Kühl, A.A., Arsenic, R., Jansen, H., Treasure, P., Utku, N. (2020).Efficacy and Safety of CAP7.1 as Second-Line Treatment for Advanced Biliary Tract Cancers: Data from a Randomised Phase II Study *Cancers (Basel)* *12*,e3149. DOI: 10.3390/cancers12113149
- Pfützing, P.L., Fangmann, L., Wang, K., Demir, E., Gürlevik, E., Fleischmann-Mundt, B., Brooks, J., D'Haese, J.G., Teller, S., Hecker, A., Jesinghaus, M., Jäger, C., Ren, L., Istvanffy, R., Kühnel, F., Friess, H., Ceyhan, G.O., Demir, I.E. (2020).Indirect cholinergic activation slows down pancreatic cancer growth and tumor-associated inflammation. *J Exp Clin Cancer Res* *39*,289. DOI: 10.1186/s13046-020-01796-4
- Potabattula, R., Zacchini, F., Ptak, G.E., Dittrich, M., Müller, T., El Hajj, N., Hahn, T., Drummer, C., Behr, R., Lucas-Hahn, A., Niemann, H., Schorsch, M., Haaf, T. (2020).Increasing methylation of sperm rDNA and other repetitive elements in the aging male mammalian germline *Aging Cell* *19*,e13181. DOI: 10.1111/acel.13181
- Praditya, D., Friesland, M., Gravemann, U., Handke, W., Todt, D., Behrendt, P., Müller, T.H., Steinmann, E., Seltsam, A. (2020).Hepatitis E virus is effectively inactivated in platelet concentrates by ultraviolet C light *Vox Sang* *115*,555-561. DOI: 10.1111/vox.12936
- Qi, C., Jiang, Y., Yang, I.V., Forno, E., Wang, T., Vonk, J.M., Gehring, U., Smit, H.A., Milanzi, E.B., Carpaij, O.A., Berg, M., Hesse, L., Brouwer, S., Cardwell, J., Vermeulen, C.J., Acosta-Perez, E., Canino, G., Boutaoui, N., van den Berge, M., Teichmann, S.A., Nawijn, M.C., Chen, W., Celedon, J.C., Xu, C.J., Koppelman, G.H. (2020).Nasal DNA methylation profiling of asthma and rhinitis *J Allergy Clin Immunol* *145*,1655-1663. DOI: 10.1016/j.jaci.2019.12.911

- Qi, C., Vonk, J.M., van der Plaat, D.A., Nieuwenhuis, M.A.E., Dijk, F.N., BIOS Consortium, Aissi, D., Siroux, V., Boezen, H.M., Xu, C.J., Koppelman, G.H. (2020). Epigenome-wide association study identifies DNA methylation markers for asthma remission in whole blood and nasal epithelium *Clin Transl Allergy* 10,60. DOI: 10.1186/s13601-020-00365-4
- R Galle, P., Dufour, J.F., Peck-Radosavljevic, M., Trojan, J., Vogel, A. (2021). Systemic therapy of advanced hepatocellular carcinoma *Future Oncol* 17,1237-1251. DOI: 10.2217/fo-2020-0758
- Rajmakers, R.P.H., Roerink, M.E., Jansen, A.F.M., Keijmel, S.P., Gacesa, R., Li, Y., Joosten, L.A.B., van der Meer, J.W.M., Netea, M.G., Bleeker-Rovers, C.P., Xu, C.J. (2020). Multi-omics examination of Q fever fatigue syndrome identifies similarities with chronic fatigue syndrome *J Transl Med* 18,448. DOI: 10.1186/s12967-020-02585-5
- Rashidi-Alavijeh, J., Ceylan, A.S., Wedemeyer, H., Kleefisch, M., Willuweit, K., Lange, C.M. (2020). Standard coagulation tests are superior to thromboelastometry in predicting outcome of patients with liver cirrhosis. *PLoS One* 15,e0236528. DOI: 10.1371/journal.pone.0236528
- Rashidi-Alavijeh, J., Crämer, J.C., Sauter, H.L., Willuweit, K., Straub, K., Wedemeyer, H., Herzer, K. (2021). Primary sclerosing cholangitis as an independent risk factor for cytomegalovirus infection after liver transplant *Transpl Infect Dis* 23,e13553. DOI: 10.1111/tid.13553
- Rashidi-Alavijeh, J., Straub, K., Achterfeld, A., Wedemeyer, H., Willuweit, K., Herzer, K. (2020). Safety and efficacy of tenofovir alafenamide in liver transplant recipients: a single center experience *Transpl Infect Dis* e13522. DOI: 10.1111/tid.13522
- Ringe, K.I., Bergquist, A., Lenzen, H., Kartalis, N., Manns, M.P., Wacker, F., Grigoriadis, A. (2020). Clinical features and MRI progression of small duct primary sclerosing cholangitis (PSC) *Eur J Radiol* 129,109101. DOI: 10.1016/j.ejrad.2020.109101
- Ringe, K.I., Vo Chieu, V.D., Wacker, F., Lenzen, H., Manns, M.P., Hundt, C., Schmidt, B., Winther, H.B. (2021). Fully automated detection of primary sclerosing cholangitis (PSC)-compatible bile duct changes based on 3D magnetic resonance cholangiopancreatography using machine learning. *Eur Radiol* 31,2482-2489. DOI: 10.1007/s00330-020-07323-5
- Römermann, D., Ansari, N., Schultz-Moreira, A.R., Michael, A., Marhenke, S., Hardtke-Wolenski, M., Longerich, T., Manns, M.P., Wedemeyer, H., Vogel, A., Buitrago-Molina, L.E. (2020). Absence of Atg7 in the liver disturbed hepatic regeneration after liver injury *Liver Int* 40,1225-1238. DOI: 10.1111/liv.14425
- Röttger, M., Hertel, H., Kaukämüller, L., Brodowski, L., Flentje, M., Hillemanns, P., Klapdor, R. (2020). Sentinel lymph node biopsy in vulvar cancer: status, level of knowledge, and counseling in outpatient setting. *Arch Gynecol Obstet* 302,1001-1007. DOI: 10.1007/s00404-020-05701-4
- Rueschenbaum, S., Ciesek, S., Queck, A., Widera, M., Schwarzkopf, K., Brüne, B., Welsch, C., Wedemeyer, H., Zeuzem, S., Weigert, A., Lange, C.M. (2021). Dysregulated Adaptive Immunity Is an Early Event in Liver Cirrhosis Preceding Acute-on-Chronic Liver Failure. *Front Immunol* 11,534731. DOI: 10.3389/fimmu.2020.534731
- Sake, H.J., Frenzel, A., Lucas-Hahn, A., Nowak-Imialek, M., Hassel, P., Hader, K.G., Hermann, D., Becker, R., Eylers, H., Hein, R., Baars, W., Brinkmann, A., Schwinzer, R., Niemann, H., Petersen, B. (2019). Possible detrimental effects of beta-2-microglobulin knockout in pigs *Xenotransplantation* 26,e12525. DOI: 10.1111/xen.12525
- Schellhaas, B., Bernatik, T., Bohle, W., Borowitzka, F., Chang, J., Dietrich, C.F., Dirks, K., Donoval, R., Drube, K., Friedrich-Rust, M., Gall, C., Gittinger, F., Gutermann, M., Haenle, M.M., von Herbay, A., Ho, C.H., Hochdoerffer, R., Hoffmann, T., Hüttig, M., Janson, C., Jung, E.M., Jung, N., Karlas, T., Klinger, C., Kornmehl, A., Kratzer, W., Krug, S., Kunze, G., Leitlein, J., Link, A., Lottspeich, C., Marano, A., Mauch, M., Moleda, L., Neesse, A., Petzold, G., Potthoff, A., Praktijnjo, M., Rösner, K.D., Schanz, S., Schultheiss, M., Sivanathan, V., Stock, J., Thomsen, T., Vogelpohl, J., Vogt, C., Wagner, S., Wiegand, C., Wiesinger, I., Will, U., Ziesch, M., Zimmermann, P., Strobel, D. (2021). CEUS-Algorithmen für den kontrastverstärkten Ultraschall (CEUS-LIRADS/ESCUAP) in der nichtinvasiven Diagnostik des hepatozellulären Karzinoms - eine prospektive, multizentrische DEGUM-Studie *Ultraschall Med* 42,178-186. DOI: 10.1055/a-1198-4874
- Schleidgen, S., Dederer, H.G., Sgodda, S., Cravacis, S., Lüneburg, L., Cantz, T., Heinemann, T. (2020). Human germline editing in the era of CRISPR-Cas: risk and uncertainty, inter-generational responsibility, therapeutic legitimacy *BMC Med Ethics* 21,87. DOI: 10.1186/s12910-020-00487-1
- Schmitt, A., Günther, R., Mauss, S., Boeker, K.H.W., Buggisch, P., Hillenbrand, H., John, C., Klinker, H., Pathil, A., Simon, K.G., Serfert, Y., Niederau, C., Vermehren, J., Wedemeyer, H., Sarrazin, C. (2020). Therapieversagen nach direkt antiviraler HCV-Therapie in Real-world: Häufigkeit, Patientencharakteristika und Rescue-Therapie - Daten aus dem Deutschen Hepatitis C-Register (DHC-R) *Z Gastroenterol* 58,341-351. DOI: 10.1055/a-1068-3056
- Schneider, C.V., Hamesch, K., Gross, A., Mandorfer, M., Moeller, L.S., Pereira, V., Pons, M., Kuca, P., Reichert, M.C., Benini, F., Burbaum, B., Voss, J., Gutberlet, M., Woditsch, V., Lindhauer, C., Fromme, M., Kümpers, J., Bewersdorf, L., Schaefer, B., Eslam, M., Bals, R.,

- Janciauskiene, S., Carvao, J., Neureiter, D., Zhou, B., Wöran, K., Bantel, H., Geier, A., Dirrichs, T., Stickel, F., Teumer, A., Verbeek, J., Nevens, F., Govaere, O., Krawczyk, M., Roskams, T., Haybaeck, J., Lurje, G., Chorostowska-Wynimko, J., Genesca, J., Reiberger, T., Lammert, F., Krag, A., George, J., Anstee, Q.M., Trauner, M., Datz, C., Gaisa, N.T., Denk, H., Trautwein, C., Aigner, E., Strnad, P., European Alpha-1 Liver Study Group. (2020). Liver Phenotypes of European Adults Heterozygous or Homozygous for Pi *Z Variant of AAT (Pi *MZ vs Pi *ZZ genotype) and Noncarriers *Gastroenterology* *159*,534. DOI: 10.1053/j.gastro.2020.04.058
- Schönfeld, L., Hinrichs, J.B., Marquardt, S., Voigtländer, T., Dewald, C., Koppert, W., Manns, M.P., Wacker, F., Vogel, A., Kirstein, M.M. (2020). Chemosaturation with percutaneous hepatic perfusion is effective in patients with ocular melanoma and cholangiocarcinoma *J Cancer Res Clin Oncol* *146*,3003-3012. DOI: 10.1007/s00432-020-03289-5
- Schuler, M., Berardi, R., Lim, W.T., de Jonge, M., Bauer, T.M., Azaro, A., Gottfried, M., Han, J.Y., Lee, D.H., Wollner, M., Hong, D.S., Vogel, A., Delmonte, A., Akimov, M., Ghebremariam, S., Cui, X., Nwana, N., Giovannini, M., Kim, T.M. (2020). Molecular correlates of response to capmatinib in advanced non-small-cell lung cancer: clinical and biomarker results from a phase I trial *Ann Oncol* *31*,789-797. DOI: 10.1016/j.annonc.2020.03.293
- Schultalbers, M., Tergast, T.L., Simon, N., Kabbani, A.R., Kimmann, M., Höner Zu Siederdisen, C., Gerbel, S., Manns, M.P., Cornberg, M., Maasoumy, B. (2020). Frequency, characteristics and impact of multiple consecutive nosocomial infections in patients with decompensated liver cirrhosis and ascites. *United European Gastroenterol J* *8*,567-576. DOI: 10.1177/2050640620913732
- Schulte, B., Wübbolding, M., Marra, F., Port, K., Manns, M.P., Back, D., Cornberg, M., Stichtenoth, D.O., Höner Zu Siederdisen, C., Maasoumy, B. (2020). Frequency of Potential Drug-Drug Interactions in the Changing Field of HCV Therapy *Open Forum Infect Dis* *7*,ofaa040. DOI: 10.1093/ofid/ofaa040
- Schulte-Schrepping, J., Reusch, N., Paclik, D., Bassler, K., Schlickeiser, S., Zhang, B., Krämer, B., Krammer, T., Brumhard, S., Bonaguro, L., De Domenico, E., Wendisch, D., Grasshoff, M., Kapellos, T.S., Beckstette, M., Pecht, T., Saglam, A., Dietrich, O., Mei, H.E., Schulz, A.R., Conrad, C., Kunkel, D., Vafadarnejad, E., Xu, C.J., Horne, A., Herbert, M., Drews, A., Thibeault, C., Pfeiffer, M., Hippenstiel, S., Hocke, A., Müller-Redetzky, H., Heim, K.M., Machleidt, F., Uhrig, A., Bosquillon de Jarcy, L., Jürgens, L., Stegemann, M., Glösenkamp, C.R., Volk, H.D., Goffinet, C., Landthaler, M., Wyler, E., Georg, P., Schneider, M., Dang-Heine, C., Neuwinger, N., Kappert, K., Tauber, R., Corman, V., Raabe, J., Kaiser, K.M., Vinh, M.T., Rieke, G., Meisel, C., Ulas, T., Becker, M., Geffers, R., Witzernath, M., Drosten, C., Suttorp, N., von Kalle, C., Kurth, F., Händler, K., Schultze, J.L., Aschenbrenner, A.C., Li, Y., Nattermann, J., Sawitzki, B., Saliba, A.E., Sander, L.E., Deutsche COVID-19 OMICS Initiative (DeCOI). (2020). Severe COVID-19 is marked by a dysregulated myeloid cell compartment *Cell* *182*,1419. DOI: 10.1016/j.cell.2020.08.001
- Schultz Moreira, A.R., Rüschenbaum, S., Schefczyk, S., Hendgen-Cotta, U., Rassaf, T., Broering, R., Hardtke-Wolenski, M., Buitrago-Molina, L.E. (2020). 9-PAHSA Prevents Mitochondrial Dysfunction and Increases the Viability of Steatotic Hepatocytes *Int J Mol Sci* *21*,DOI: 10.3390/ijms211218279
- Schulz, O., Wiesner, O., Welte, T., Bollmann, B.A., Suhling, H., Hoepfer, M.M., Busch, M. (2020). Enoximone in status asthmaticus *ERJ Open Res* *6*,DOI: 10.1183/23120541.00367-2019
- Schuster, F., Aldag, P., Frenzel, A., Haderl, K.G., Lucas-Hahn, A., Niemann, H., Petersen, B. (2020). CRISPR/Cas12a mediated knock-in of the Polled Celtic variant to produce a polled genotype in dairy cattle *Sci Rep* *10*,13570. DOI: 10.1038/s41598-020-70531-y
- Schwertheim, S., Kälsch, J., Jastrow, H., Schaefer, C.M., Theurer, S., Ting, S., Canbay, A., Wedemeyer, H., Schmid, K.W., Baba, H.A. (2020). Characterization of two types of intranuclear hepatocellular inclusions in NAFLD *Sci Rep* *10*,16533. DOI: 10.1038/s41598-020-71646-y
- Schwertheim, S., Westerwick, D., Jastrow, H., Theurer, S., Schaefer, C.M., Kälsch, J., Mollmann, D., Schlattjan, M., Wedemeyer, H., Schmid, K.W., Baba, H.A. (2019). Intranuclear inclusions in hepatocellular carcinoma contain autophagy-associated proteins and correlate with prolonged survival. *J Pathol Clin Res* *5*,164-176. DOI: 10.1002/cjp.2.129
- Sekyere, S.O., Port, K., Deterding, K., Cornberg, M., Wedemeyer, H. (2021). Inflammatory patterns in plasma associate with hepatocellular carcinoma development in cured hepatitis C cirrhotic patients *United European Gastroenterol J* *9*,486-496. DOI: 10.1177/2050640620976991
- Shi, X., Liu, T.T., Yu, X.N., Balakrishnan, A., Zhu, H.R., Guo, H.Y., Zhang, G.C., Bilegsaikhan, E., Sun, J.L., Song, G.Q., Weng, S.Q., Dong, L., Ott, M., Zhu, J.M., Shen, X.Z. (2020). microRNA-93-5p promotes hepatocellular carcinoma progression via a microRNA-93-5p/MAP3K2/c-Jun positive feedback circuit *Oncogene* *39*,5768-5781. DOI: 10.1038/s41388-020-01401-0
- Smart, I., Goecke, T., Ramm, R., Petersen, B., Lenz, D., Haverich, A., Niemann, H., Hilfiker, A. (2021). Dot blots of solubilized extracellular matrix allow quantification of human antibodies bound to epitopes present in decellularized porcine pulmonary heart valves *Xenotransplantation* *28*,e12646. DOI: 10.1111/xen.12646

- Sonneveld, M.J., Park, J.Y., Kaewdech, A., Seto, W.K., Tanaka, Y., Carey, I., Papatheodoridi, M., van Bömmel, F., Berg, T., Zoulim, F., Ahn, S.H., Dalekos, G.N., Erler, N.S., Höner Zu Siederdisen, C., Wedemeyer, H., Cornberg, M., Yuen, M.F., Agarwal, K., Boonstra, A., Buti, M., Piratvisuth, T., Papatheodoridis, G., Maasoumy, B., CREATE study group. (2020). Prediction of Sustained Response After Nucleo(s)tide Analogue Cessation using Hbsag and Hbcrag Levels - a Multicenter Study (Create) *Clin Gastroenterol Hepatol* DOI: 10.1016/j.cgh.2020.12.005
- Sperle, I., Steffen, G., Leendertz, S.A., Sarma, N., Beermann, S., Thamm, R., Simeonova, Y., Cornberg, M., Wedemeyer, H., Bremer, V., Zimmermann, R., Dudareva, S. (2020). Prevalence of Hepatitis B, C, and D in Germany: Results From a Scoping Review *Front Public Health* 8,424. DOI: 10.3389/fpubh.2020.00424
- Stahl, K., Bikker, R., Seeliger, B., Schmidt, J.J., Schenk, H., Schmidt, B.M.W., Welte, T., Haller, H., Hoepfer, M.M., Brand, K., David, S. (2021). Effect of Therapeutic Plasma Exchange on Immunoglobulin Deficiency in Early and Severe Septic Shock *J Intensive Care Med* 36,456. DOI: 10.1177/0885066620965169
- Stahl, K., Busch, M., Fuge, J., Schneider, A., Manns, M.P., Seeliger, B., Schmidt, J.J., Wiesner, O., Schmidt, B.M.W., Taubert, R., Vondran, F.W.R., Hoepfer, M.M., David, S. (2020). Therapeutic plasma exchange in acute on chronic liver failure *J Clin Apher* 35,316-327. DOI: 10.1002/jca.21799
- Stahl, K., Schmidt, B.M.W., Hoepfer, M.M., Skripuletz, T., Möhn, N., Beutel, G., Eder, M., Welte, T., Ganser, A., Falk, C.S., Koenecke, C., David, S. (2020). Extracorporeal cytokine removal in severe CAR-T cell associated cytokine release syndrome *J Crit Care* 57,124-129. DOI: 10.1016/j.jcrc.2020.02.010
- Stahl, K., Schmidt, J.J., Seeliger, B., Schmidt, B.M.W., Welte, T., Haller, H., Hoepfer, M.M., Budde, U., Bode, C., David, S. (2020). Effect of therapeutic plasma exchange on endothelial activation and coagulation-related parameters in septic shock *Crit Care* 24,71. DOI: 10.1186/s13054-020-2799-5
- Stockhoff, L., Schultalbers, M., Tergast, T.L., Hinrichs, J.B., Gerbel, S., Meine, T.C., Manns, M.P., Simon, N., Cornberg, M., Meyer, B.C., Maasoumy, B. (2020). Safety and feasibility of transjugular intrahepatic portosystemic shunt in elderly patients with liver cirrhosis and refractory ascites *PLoS One* 15,e0235199. DOI: 10.1371/journal.pone.0235199
- Störmann, S., Schopohl, J., Bullmann, C., Terkamp, C., Christ-Crain, M., Finke, R., Flitsch, J., Kreitschmann-Andermahr, I., Luger, A., Stalla, G., Houchard, A., Helbig, D., Petersenn, S. (2021). Multicenter, Observational Study of Lanreotide Autogel for the Treatment of Patients with Acromegaly in Routine Clinical Practice in Germany, Austria and Switzerland *Exp Clin Endocrinol Diabetes* 129,224-233. DOI: 10.1055/a-1247-4713
- Straub, K., Husen, P., Baba, H.A., Trippler, M., Wedemeyer, H., Herzer, K. (2019). Promyelocytic leukemia protein deficiency leads to spontaneous formation of liver tumors in hepatitis C virus transgenic mice. *Cancer Med* 8,3793-3802. DOI: 10.1002/cam4.2162
- Tan, Q., di Stefano, G., Tan, X., Renjie, X., Römermann, D., Talbot, S.R., Seidler, U.E. (2021). Inhibition of Na⁺/H⁺ exchanger isoform 3 improves gut fluidity and alkalinity in cystic fibrosis transmembrane conductance regulator-deficient and F508del mutant mice. *Br J Pharmacol* 178,1018-1036. DOI: 10.1111/bph.15323
- Thodou, V., Bremer, B., Anastasiou, O.E., Cornberg, M., Maasoumy, B., Wedemeyer, H. (2020). Performance of Roche qualitative HEV assay on the cobas 6800 platform for quantitative measurement of HEV RNA *J Clin Virol* 129,104525. DOI: 10.1016/j.jcv.2020.104525
- Todt, D., Friesland, M., Moeller, N., Praditya, D., Kinast, V., Brüggemann, Y., Knegeendorf, L., Burkard, T., Steinmann, J., Burm, R., Verhoye, L., Wahid, A., Meister, T.L., Engelmann, M., Pfankuche, V.M., Puff, C., Vondran, F.W.R., Baumgärtner, W., Meuleman, P., Behrendt, P., Steinmann, E. (2020). Robust hepatitis E virus infection and transcriptional response in human hepatocytes. *Proc Natl Acad Sci U S A* 117,1731-1741. DOI: 10.1073/pnas.1912307117
- Trebicka, J., Fernandez, J., Papp, M., Caraceni, P., Laleman, W., Gambino, C., Giovo, I., Uschner, F.E., Jansen, C., Jimenez, C., Mookerjee, R., Gustot, T., Albillos, A., Banares, R., Jarcuska, P., Steib, C., Reiberger, T., Acevedo, J., Gatti, P., Shawcross, D.L., Zeuzem, S., Zipprich, A., Piano, S., Berg, T., Bruns, T., Danielsen, K.V., Coenraad, M., Merli, M., Stauber, R., Zoller, H., Ramos, J.P., Sole, C., Soriano, G., de Gottardi, A., Gronbaek, H., Saliba, F., Trautwein, C., Kani, H.T., Francque, S., Ryder, S., Nahon, P., Romero-Gomez, M., Van Vlietberghe, H., Francoz, C., Manns, M., Garcia-Lopez, E., Tufoni, M., Amoros, A., Pavesi, M., Sanchez, C., Praktijnjo, M., Curto, A., Pitarch, C., Putignano, A., Moreno, E., Bernal, W., Aguilar, F., Claria, J., Ponzio, P., Vitalis, Z., Zaccherini, G., Balogh, B., Gerbes, A., Vargas, V., Alessandria, C., Bernardi, M., Gines, P., Moreau, R., Angeli, P., Jalan, R., Arroyo, V., PREDICT STUDY group of the EASL-CLIF CONSORTIUM. (2021). PREDICT identifies precipitating events associated with the clinical course of acutely decompensated cirrhosis *J Hepatol* 74,1097-1108. DOI: 10.1016/j.jhep.2020.11.019
- Trebicka, J., Fernandez, J., Papp, M., Caraceni, P., Laleman, W., Gambino, C., Giovo, I., Uschner, F.E., Jimenez, C., Mookerjee, R., Gustot, T., Albillos, A., Banares, R., Janicko, M., Steib, C., Reiberger, T., Acevedo, J., Gatti, P., Bernal, W., Zeuzem, S., Zipprich, A., Piano, S., Berg,

T., Bruns, T., Bendtsen, F., Coenraad, M., Merli, M., Stauber, R., Zoller, H., Ramos, J.P., Sole, C., Soriano, G., de Gottardi, A., Gronbaek, H., Saliba, F., Trautwein, C., Ozdogan, O.C., Francque, S., Ryder, S., Nahon, P., Romero-Gomez, M., Van Vlierberghe, H., Francoz, C., Manns, M., Garcia, E., Tufoni, M., Amoros, A., Pavesi, M., Sanchez, C., Curto, A., Pitarch, C., Putignano, A., Moreno, E., Shawcross, D., Aguilar, F., Claria, J., Ponzo, P., Jansen, C., Vitalis, Z., Zaccherini, G., Balogh, B., Vargas, V., Montagnese, S., Alessandria, C., Bernardi, M., Gines, P., Jalan, R., Moreau, R., Angeli, P., Arroyo, V., PREDICT STUDY group of the EASL-CLIF Consortium. (2020). The PREDICT study uncovers three clinical courses of acutely decompensated cirrhosis that have distinct pathophysiology. *J Hepatol* 73,842-854. DOI: 10.1016/j.jhep.2020.06.013

Trivedi, P.J., Muir, A.J., Levy, C., Bowlus, C.L., Manns, M., Lu, X., Crans, G., Chung, C., Subramanian, G.M., Myers, R.P., Goodman, Z., Chalasani, N., Vierling, J.M., Guha, I.N., Hirschfield, G.M. (2021). Inter- and Intra-individual Variation, and Limited Prognostic Utility, of Serum Alkaline Phosphatase in a Trial of Patients With Primary Sclerosing Cholangitis. *Clinical gastroenterology and hepatology* 19,1248-1257. DOI: 10.1016/j.cgh.2020.07.032

Vehmeijer, F.O.L., Küpers, L.K., Sharp, G.C., Salas, L.A., Lent, S., Jima, D.D., Tindula, G., Reese, S., Qi, C., Gruzieva, O., Page, C., Rezwan, F.I., Melton, P.E., Nohr, E., Escaramis, G., Rzehak, P., Heiskala, A., Gong, T., Tuominen, S.T., Gao, L., Ross, J.P., Starling, A.P., Holloway, J.W., Yousefi, P., Aasvang, G.M., Beilin, L.J., Bergström, A., Binder, E., Chatzi, L., Corpeleijn, E., Czamara, D., Eskenazi, B., Ewart, S., Ferre, N., Grote, V., Gruszfeld, D., Haberg, S.E., Hoyo, C., Huen, K., Karlsson, R., Kull, I., Langhendries, J.P., Lepeule, J., Magnus, M.C., Maguire, R.L., Molloy, P.L., Monnereau, C., Mori, T.A., Oken, E., Rääkkönen, K., Rifas-Shiman, S., Ruiz-Arenas, C., Sebert, S., Ullemer, V., Verduci, E., Vonk, J.M., Xu, C.J., Yang, I.V., Zhang, H., Zhang, W., Karmaus, W., Dabelea, D., Muhlhausler, B.S., Breton, C.V., Lahti, J., Almqvist, C., Jarvelin, M.R., Koletzko, B., Vrijheid, M., Sorensen, T.I.A., Huang, R.C., Arshad, S.H., Nystad, W., Melen, E., Koppelman, G.H., London, S.J., Holland, N., Bustamante, M., Murphy, S.K., Hivert, M.F., Baccarelli, A., Relton, C.L., Snieder, H., Jaddoe, V.W.V., Felix, J.F. (2020). DNA methylation and body mass index from birth to adolescence: meta-analyses of epigenome-wide association studies *Genome Med* 12,105. DOI: 10.1186/s13073-020-00810-w

Vermehren, J., Serfert, Y., Cornberg, M., Stoehr, A., Klinker, H., Simon, K.G., Teuber, G., Deterding, K., Schulze Zur Wiesch, J., Jung, M.C., Manns, M.P., Zeuzem, S., Wedemeyer, H., Sarrazin, C. (2020). Sofosbuvir, Velpatasvir und Voxilaprevir für Patienten mit chronischer Hepatitis C und Versagen auf eine direkt antivirale Therapie: Ergebnisse aus dem Deutschen Hepatitis C-Register (DHC-R). *Z Gastroenterol* 58,841-846. DOI: 10.1055/a-1217-7669

Vermeulen, C.J., Xu, C.J., Vonk, J.M., Ten Hacken, N.H.T., Timens, W., Heijink, I.H., Nawijn, M.C., Boekhoudt, J., van Oosterhout, A.J., Affleck, K., Weckmann, M., Koppelman, G.H., van den Berge, M. (2020). Differential DNA methylation in bronchial biopsies between persistent asthma and asthma in remission *Eur Respir J* 55,1901280. DOI: 10.1183/13993003.01280-2019

Verna, E.C., Morelli, G., Terrault, N.A., Lok, A.S., Lim, J.K., Di Bisceglie, A.M., Zeuzem, S., Landis, C.S., Kwo, P., Hassan, M., Manns, M.P., Vainorius, M., Akushevich, L., Nelson, D.R., Fried, M.M.W., Reddy, K.R. (2020). DAA therapy and long-term hepatic function in advanced/decompensated cirrhosis: Real-world experience from HCV-TARGET cohort. *J Hepatol* 73,540-548. DOI: 10.1016/j.jhep.2020.03.031

Vogel, A. (2020). Targeting FGFR2 in advanced cholangiocarcinoma: an interview with Arndt Vogel *Future Oncol* 16,2373-2374. DOI: 10.2217/fo-2020-0925

Voigtländer, T., Metzger, J., Husi, H., Kirstein, M.M., Pejchinovski, M., Latosinska, A., Frantzi, M., Mullen, W., Book, T., Mischak, H., Manns, M.P. (2020). Bile and urine peptide marker profiles: access keys to molecular pathways and biological processes in cholangiocarcinoma *J Biomed Sci* 27,13. DOI: 10.1186/s12929-019-0599-5

Wedemeyer, H., Khera, T., Strunz, B., Björkström, N.K. (2020). Reversal of Immunity After Clearance of Chronic HCV Infection-All Reset? *Front Immunol* 11, DOI: 10.3389/fimmu.2020.571166

Weismüller, T.J., Zhou, T., Kalthoff, S., Lenzen, H., Manns, M.P., Strassburg, C.P. (2020). Genetic variants of UDP-glucuronosyltransferase 1A genes are associated with disease presentation and outcome in primary sclerosing cholangitis. *Liver Int* 40,1645-1654. DOI: 10.1111/liv.14487

Welland, S., Janssen, C., Ringe, K.I., Höglinger, G., Manns, M.P., Mederacke, I. (2021). Massivste epigastrische Schmerzen bei einem 59-jährigen Patienten *Internist (Berl)* 62,207-211. DOI: 10.1007/s00108-020-00905-x

Willuweit, K., Frey, A., Bieniek, L., Heinold, A., Büchter, M., Horn, P.A., Wedemeyer, H., Herzer, K. (2020). HLA class II donor specific antibodies are associated with graft cirrhosis after liver transplant independent of the mean fluorescence intensity level. *BMC Gastroenterol* 20,288. DOI: 10.1186/s12876-020-01427-4

Wranke, A., Hardtke, S., Heidrich, B., Dalekos, G., Yalcin, K., Tabak, F., Gürel, S., Cakaloglu, Y., Akarca, U.S., Lammert, F., Häussinger, D., Müller, T., Wöbse, M., Manns, M.P., Idilman, R., Cornberg, M., Wedemeyer, H., Yurdaydin, C. (2020). Ten-year follow-up of a randomized controlled clinical trial in chronic hepatitis delta. *J Viral Hepat* 27,1359-1368. DOI: 10.1111/jvh.13366

Xu, J., Zeug, A., Riederer, B., Yeruva, S., Griesbeck, O., Daniel, H., Tuo, B., Ponimaskin, E., Dong, H., Seidler, U. (2020). Calcium-sensing receptor regulates intestinal dipeptide absorption via Ca²⁺ signaling and IKCa activation *Physiol Rep* 8,e14337. DOI: 10.14814/phy2.14337

Yan, Q., Forno, E., Herrera-Luis, E., Pino-Yanes, M., Qi, C., Rios, R., Han, Y.Y., Kim, S., Oh, S., Acosta-Perez, E., Zhang, R., Hu, D., Eng, C., Huntsman, S., Avila, L., Boutaoui, N., Cloutier, M.M., Soto-Quiros, M.E., Xu, C.J., Weiss, S.T., Lasky-Su, J., Kiedrowski, M.R., Figueiredo, C., Bomberger, J., Barreto, M.L., Canino, G., Chen, W., Koppelman, G.H., Burchard, E.G., Celedon, J.C. (2021). A genome-wide association study of severe asthma exacerbations in Latino children and adolescents *Eur Respir J* 57,2002693. DOI: 10.1183/13993003.02693-2020

Yang, D., Dai, Z., Yang, T., Balakrishnan, A., Yuan, Q., Vondran, F.W.R., Manns, M.P., Ott, M., Cantz, T., Sharma, A.D. (2020). MicroRNA-125b-5p Regulates Hepatocyte Proliferation During the Termination Phase of Liver Regeneration. *Hepatology* 71,1851-1863. DOI: 10.1002/hep4.1597

Yen, C.J., Kudo, M., Lim, H.Y., Hsu, C.H., Vogel, A., Brandi, G., Cheng, R., Nitu, I.S., Abada, P., Hsu, Y., Zhu, A.X., Kang, Y.K. (2020). Efficacy and Safety of Ramucirumab in Asian and Non-Asian Patients with Advanced Hepatocellular Carcinoma and Elevated Alpha-Fetoprotein: Pooled Individual Data Analysis of Two Randomized Studies *Liver Cancer* 9,440-454. DOI: 10.1159/000506946

Yoshida, K., Desbiolles, A., Feldman, S.F., Ahn, S.H., Alidjinou, E.K., Atsukawa, M., Bocket, L., Brunetto, M.R., Buti, M., Carey, I., Caviglia, G.P., Chen, E.Q., Cornberg, M., Enomoto, M., Honda, M., Zu Siederdisen, C.H., Ishigami, M., Janssen, H.L.A., Maasoumy, B., Matsui, T., Matsumoto, A., Nishiguchi, S., Riveiro-Barciela, M., Takaki, A., Tangkijvanich, P., Toyoda, H., van Campenhout, M.J.H., Wang, B., Wei, L., Yang, H.I., Yano, Y., Yatsuhashi, H., Yuen, M.F., Tanaka, E., Lemoine, M., Tanaka, Y., Shimakawa, Y. (2021). Hepatitis B Core-Related Antigen to Indicate High Viral Load: Systematic Review and Meta-Analysis of 10,397 Individual Participants *Clin Gastroenterol Hepatol* 19,46-60.e8. DOI: 10.1016/j.cgh.2020.04.045

Zhang, Z., Trippler, M., Real, C.I., Werner, M., Luo, X., Schefczyk, S., Kemper, T., Anastasiou, O.E., Ladiges, Y., Treckmann, J., Paul, A., Baba, H.A., Allweiss, L., Dandri, M., Gerken, G., Wedemeyer, H., Schlaak, J.F., Lu, M., Broering, R. (2020). Hepatitis B Virus Particles Activate Toll-Like Receptor 2 Signaling Initially Upon Infection of Primary Human Hepatocytes. *Hepatology* 72,829-844. DOI: 10.1002/hep.31112

Zimmermann, R., Külper-Schiek, W., Steffen, G., Gillesberg Lassen, S., Bremer, V., Dudareva, S., die Hepatitis-Monitoring-Arbeitsgruppe. (2021). Wie lässt sich die Eliminierung von Hepatitis B, C und D in Deutschland messen? Ergebnisse eines interdisziplinären Arbeitstreffens *Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz* 64,77-90. DOI: 10.1007/s00103-020-03260-2

Leitlinien von Fachgesellschaften

European Association for the Study of the Liver. Clinical Practice Guidelines Panel: Chair, EASL Governing Board representative, Panel members. (2020). EASL recommendations on treatment of hepatitis C: Final update of the series() *J Hepatol* 73,1170-1218. DOI: 10.1016/j.jhep.2020.08.018

Sarrazin, C., Zimmermann, T., Berg, T., Hinrichsen, H., Mauss, S., Wedemeyer, H., Zeuzem, S., Deutsche Gesellschaft für Gastroenterologie, Verdauungs- und Stoffwechselkrankheiten (DGVS), Deutsche Gesellschaft für Pathologie e. V. (DGP) und Bundesverband Deutscher Pathologen (BDP), Deutsche Leberstiftung, Gesellschaft für Virologie e. V. (GfV), Gesellschaft für Padiatrische Gastroenterologie und Ernährung (GPGE), Österreichische Gesellschaft für Gastroenterologie und Hepatologie (OGGH), Schweizerische Gesellschaft für Gastroenterologie (SGG), Deutsche Transplantationsgesellschaft e. V. (DTG), Deutsche Leberhilfe e. V., Deutsche Gesellschaft für Infektiologie e. V. (DGI), Deutsche Gesellschaft für Suchtmedizin e. V. (DGS), Deutsche AIDS-Gesellschaft e. V. (DAIG), Deutsche Arbeitsgemeinschaft niedergelassener Ärzte für die Versorgung HIV-Infizierter (DAGNA), Robert Koch-Institut (RKI), Collaborators. (2020). Prophylaxe, Diagnostik und Therapie der Hepatitis-C-Virus(HCV)-Infektion *Z Gastroenterol* 58,1110-1131. DOI: 10.1055/a-1226-0241

Sarrazin, C., Zimmermann, T., Berg, T., Neumann, U.P., Schirmacher, P., Schmidt, H., Spengler, U., Timm, J., Wedemeyer, H., Wirth, S., Zeuzem, S., Deutsche Gesellschaft für Gastroenterologie, Verdauungs- und Stoffwechselkrankheiten (DGVS), Deutsche Gesellschaft für Pathologie e.V. (DGP), Deutsche Leberstiftung, Gesellschaft für Virologie e.V. (GfV), Gesellschaft für Padiatrische Gastroenterologie und Ernährung (GPGE), Österreichische Gesellschaft für Gastroenterologie und Hepatologie (OGGH), Schweizerische Gesellschaft für Gastroenterologie (SGG), Deutsche Transplantationsgesellschaft e.V. (DTG), Deutsche Leberhilfe e.V., Deutsche Gesellschaft für Infektiologie e.V. (DGI), Deutsche Gesellschaft für Suchtmedizin e.V. (DGS), Deutsche AIDS-Gesellschaft e.V. (DAIG), Deutsche Arbeitsgemeinschaft niedergelassener Ärzte für die Versorgung HIV-Infizierter (DAGNA), Robert Koch-Institut. (2018). S3-Leitlinie "Prophylaxe, Diagnostik und Therapie der Hepatitis-C-Virus (HCV) -Infektion" *Z Gastroenterol* 56,756-838. DOI: 10.1055/a-0599-1320

Übersichtsarbeiten

Boettler, T., Marjot, T., Newsome, P.N., Mondelli, M.U., Maticic, M., Cordero, E., Jalan, R., Moreau, R., Cornberg, M., Berg, T. (2020). Impact of COVID-19 on the care of patients with liver disease: EASL-ESCMID position paper after 6 months of the pandemic *JHEP Rep* 2,100169. DOI: 10.1016/j.jhepr.2020.100169

Boettler, T., Newsome, P.N., Mondelli, M.U., Maticic, M., Cordero, E., Cornberg, M., Berg, T. (2020). Care of patients with liver disease during the COVID-19 pandemic: EASL-ESCMID position paper *JHEP Rep* 2,100113. DOI: 10.1016/j.jhepr.2020.100113

- Busch, M., Maasoumy, B., Simon, S., Stahl, K. (2020). Akut-auf-chronisches Leberversagen (ACLF). *Kliniker* 49,209-215. DOI: 10.1055/a-1153-0599
- Busch, M., Wedemeyer, H.H. (2020). Akutes Leberversagen - die Bedeutung einer schnellen Diagnostik und frühen Therapieeinleitung. *Internist (Berl)* 61,1151-1162. DOI: 10.1007/s00108-020-00876-z
- Busch, M., Wiesner, O., David, S. (2020). Therapie schwerer COVID-19-Verläufe in der Intensivmedizin *Gastroenterologie* 15,477-486. DOI: 10.1007/s11377-020-00478-z
- Cao, L., Yuan, Z., Liu, M., Stock, C. (2020). (Patho-)Physiology of Na(+)/H(+) Exchangers (NHEs) in the Digestive System. *Front Physiol* 10,1566. DOI: 10.3389/fphys.2019.01566
- Healy, K., Pasetto, A., Sobkowiak, M.J., Soon, C.F., Cornberg, M., Aleman, S., Sällberg Chen, M. (2020). Chronic Viral Liver Diseases: Approaching the Liver Using T Cell Receptor-Mediated Gene Technologies. *Cells* 9,1471. DOI: 10.3390/cells9061471
- Höner Zu Siederdisen, C., Potthoff, A. (2020). Sonographische Diagnostik bei Lebertumoren. *Internist (Berl)* 61,115-122. DOI: 10.1007/s00108-019-00728-5
- Kirstein, M.M., Wirth, T.C. (2020). Multimodale Therapie des hepatozellulären Karzinoms. *Internist (Berl)* 61,164-169. DOI: 10.1007/s00108-019-00722-x
- Lohse, A.W., Sebode, M., Jorgensen, M.H., Ytting, H., Karlsen, T.H., Kelly, D., Manns, M.P., Vesterhus, M., European Reference Network on Hepatological Diseases (ERN RARE-LIVER) and of the International Autoimmune Hepatitis Group (IAIHG). (2020). Second-line and Third-line therapy for Autoimmune Hepatitis A position statement from the European Reference Network on Hepatological Diseases and the International Autoimmune Hepatitis Group. *J Hepatol* 73,1496-1506. DOI: 10.1016/j.jhep.2020.07.023
- Marin, J.J.G., Prete, M.G., Lamarca, A., Tavorali, S., Landa-Magdalena, A., Brandi, G., Segatto, O., Vogel, A., Macias, R.I.R., Rodrigues, P.M., Casta, A., Mertens, J., Rodrigues, C.M.P., Fernandez-Barrena, M.G., Da Silva Ruivo, A., Marzioni, M., Mentrasti, G., Acedo, P., Munoz-Garrido, P., Cardinale, V., Banales, J.M., Valle, J.W., Bridgewater, J., Braconi, C., working group 6 of the COST-action 18122 (Euro-Cholangio-NET) as part of the European Network for the study of Cholangiocarcinoma (ENSCCA). (2020). Current and novel therapeutic opportunities for systemic therapy in biliary cancer *Br J Cancer* 123,1047-1059. DOI: 10.1038/s41416-020-0987-3
- Markovic, J., Sharma, A.D., Balakrishnan, A. (2020). MicroRNA-221: A Fine Tuner and Potential Biomarker of Chronic Liver Injury *Cells* 9,DOI: 10.3390/cells9081767
- Peter, M., Kühnel, F. (2020). Oncolytic Adenovirus in Cancer Immunotherapy. *Cancers (Basel)* 12,DOI: 10.3390/cancers12113354
- Saborowski, A., Lehmann, U., Vogel, A. (2020). FGFR inhibitors in cholangiocarcinoma: what's now and what's next? *Ther Adv Med Oncol* 12,DOI: 10.1177/1758835920953293
- Saborowski, A., Vogel, A. (2020). Immunonkologie : Kein Bedarf mehr für interventionelle Radiologie? *Radiologe* 60,687-692. DOI: 10.1007/s00117-020-00722-1
- Seeliger, B., Stahl, K., David, S. (2020). Extrakorporale Blutreinigungsverfahren in der Sepsis - Update *Internist (Berl)* 61,1010-1016. DOI: 10.1007/s00108-020-00862-5
- Soudah, B., Oberndörfer, M., Raap, M., Potthoff, A. (2020). Metastasen in der Leber. *Cyto-Info* 79-85.
- Stahl, K., Seeliger, B., David, S., Schmidt, J. (2020). Was ist gesichert in der Therapie der Sepsis? *Internist (Berl)* 61,1238-1248. DOI: 10.1007/s00108-020-00895-w
- Stock, C. (2020). How Dysregulated Ion Channels and Transporters Take a Hand in Esophageal, Liver, and Colorectal Cancer. *Rev Physiol Biochem Pharmacol* DOI: 10.1007/112_2020_41
- Stripecke, R., Münz, C., Schuringa, J.J., Bissig, K.D., Soper, B., Meeham, T., Yao, L.C., Di Santo, J.P., Brehm, M., Rodriguez, E., Wege, A.K., Bonnet, D., Guionaud, S., Howard, K.E., Kitchen, S., Klein, F., Saeb-Parsy, K., Sam, J., Sharma, A.D., Trumpp, A., Trusolino, L., Bult, C., Shultz, L. (2020). Innovations, challenges, and minimal information for standardization of humanized mice *EMBO Mol Med* 12,e8662. DOI: 10.15252/emmm.201708662

Vierling, J.M., Kerkar, N., Czaja, A.J., Mack, C.L., Adams, D., Assis, D., Manns, M., Mayo, M., Nayfeh, T., Majzoub, A.M.M., Alzuabi, M.A., Ding, J., Haffar, S., Murad, M.H., Alsawas, M. (2020). Immunosuppressive Treatment Regimens in Autoimmune Hepatitis: Systematic Reviews and Meta-Analyses Supporting AASLD Guidelines Hepatology 72,753-769. DOI: 10.1002/hep.31407

Vogel, A., Bathon, M., Saborowski, A. (2021). Immunotherapies in clinical development for biliary tract cancer Expert Opin Investig Drugs 30,351-363. DOI: 10.1080/13543784.2021.1868437

Walcher, L., Kistenmacher, A.K., Suo, H., Kitte, R., Dluczek, S., Strauss, A., Blaudszun, A.R., Yevesa, T., Fricke, S., Kossatz-Boehlert, U. (2020). Cancer Stem Cells-Origins and Biomarkers: Perspectives for Targeted Personalized Therapies Front Immunol 11, DOI: 10.3389/fimmu.2020.01280

Wiesner, O., Busch, M., David, S. (2020). Therapie schwerer COVID-19-Verläufe in der Intensivmedizin Internist (Berl) 61,804-812. DOI: 10.1007/s00108-020-00850-9

Letter

Cornberg, M., Pischke, S., Müller, T., Behrendt, P., Piecha, F., Benckert, J., Todt, D., Steinmann, E., Papkalla, A., von Karpowitz, M., Koch, A., Lohse, A., Hardtke, S., Manns, M.P., Wedemeyer, H. (2020). Sofosbuvir monotherapy fails to achieve HEV RNA elimination in patients with chronic hepatitis E - The HepNet SofE pilot study J Hepatol 73,696-699. DOI: 10.1016/j.jhep.2020.05.020

Meyer, B.C., Hinrichs, J.B., Ivanyi, P., Ehrlich, S., Greer, M., Hoepfer, M.M., Busch, M. (2020). Extracorporeal portosystemic shunt in secondary Budd-Chiari syndrome J Hepatol 73,974-976. DOI: 10.1016/j.jhep.2020.05.038

Schäfer, A., Sanchez Martinez, C., Flierl, U., Leitolf, H., Tillmanns, J., Bauersachs, J. (2020). Standardized secondary prevention in patients with ST-elevation myocardial infarction. Eur J Prev Cardiol DOI: 10.1093/eurjpc/zwaa078

Schotten, C., Wedemeyer, H., Best, J. (2020). Reply to the Letter to the Editor: "Comparison of the Safety and Efficacy of Yttrium-90 Radioembolization for Nonalcoholic Fatty Liver Disease-Associated and Hepatitis B Virus-Associated Hepatocellular Carcinoma" Liver Cancer 9,363-364. DOI: 10.1159/000506947

Sipido, K.R., Antonanzas, F., Celis, J., Degos, L., Frackowiak, R., Fuster, V., Ganten, D., Gay, S., Hofstraat, H., Holgate, S.T., Krestin, G., Manns, M., Meunier, F., Oertel, W., Palkonen, S., Pavalkis, D., Rubsamen-Schaeff, H., Smith, U., Stallknecht, B.M., Zima, T. (2020). Overcoming fragmentation of health research in Europe: lessons from COVID-19 Lancet 395,1970-1971. DOI: 10.1016/S0140-6736(20)31411-2

Stahl, K., Gronski, P.A., Kiyan, Y., Seeliger, B., Bertram, A., Pape, T., Welte, T., Hoepfer, M.M., Haller, H., David, S. (2020). Injury to the Endothelial Glycocalyx in Critically Ill Patients with COVID-19 Am J Respir Crit Care Med 202,1178-1181. DOI: 10.1164/rccm.202007-2676LE

Case reports

Manka, P., Baba, H.A., Wedemeyer, H., Kahraman, A. (2021). Diet-refractory NASH in an elderly woman. Gut 70,1924-1945. DOI: 10.1136/gutjnl-2020-320740

Stahl, K., Bräsen, J.H., Hoepfer, M.M., David, S. (2020). Direct evidence of SARS-CoV-2 in gut endothelium Intensive Care Med 46,2081-2082. DOI: 10.1007/s00134-020-06237-6

Welland, S., De Castro, T., Wirth, T., Kleine, M., Ringe, K.I., Saborowski, A., Vogel, A. (2020). Best supportive care bei einer jungen Patientin mit lokal fortgeschrittenem MSI-high-Kolonkarzinom? Z Gastroenterol 58,872-876. DOI: 10.1055/a-1174-0732

Comments

Razavi, H., Gonzalez, Y.S., Yuen, C., Cornberg, M. (2020). Response to Taiwan is on track of accelerating hepatitis C elimination by 2025 Liver Int 40,1507. DOI: 10.1111/liv.14457

Vogel, A., Saborowski, A. (2020). Adjuvant (131)I-metuximab in hepatocellular carcinoma: a new option for an old drug? Lancet Gastroenterol Hepatol 5,517-519. DOI: 10.1016/S2468-1253(20)30004-2

Wedemeyer, H., Negro, F. (2019). Devil hepatitis D: an orphan disease or largely underdiagnosed? Gut 68,381-382. DOI: 10.1136/gutjnl-2018-317403

Editorials

Cornberg, M., Glebe, D. (2020). Editorial: which factors influence HBsAg levels in HBV-infected patients? Aliment Pharmacol Ther 52,547-548. DOI: 10.1111/apt.15864

Dai, Z., Ott, M., Sharma, A.D. (2020).Equal opportunity offer for all hepatocytes J Hepatol 73,6-8. DOI: 10.1016/j.jhep.2020.03.038

Manns, M.P. (2020).EASL mourns the passing of Prof. Karl-Hermann Meyer zum Büschenfelde – A great leader in European Hepatology. J Hepatol 72,384-385. DOI: 10.1016/j.jhep.2019.10.014

Mederacke, Y.S., Mederacke, I. (2020).Editorial: PNPLA3 genotype and liver diseases-more than non-alcoholic fatty liver disease. Authors' reply Aliment Pharmacol Ther 52,391-392. DOI: 10.1111/apt.15873

Ohlendorf, V., Maasoumy, B. (2020).Renal function in HCV therapy: Just another thing to ignore? Liver Int 40,1018-1020. DOI: 10.1111/liv.14391

Wedemeyer, H. (2020).The burden of hepatitis D - defogging the epidemiological horizon. J Hepatol 73,493-495. DOI: 10.1016/j.jhep.2020.06.037

Wirth, T.C., Manns, M.P. (2020).Lebertumoren - Diagnostik und Therapie 2020 Internist (Berl) 61,113-114. DOI: 10.1007/s00108-019-00732-9

Buchbeiträge, Monografien

Niemann, H., Lucas-Hahn, A., Petersen, B. (2019). The methodologies and application potential of genetically modified farm animals. In: Comprehensive biotechnology ; Vol. 4, Grodzinski B., eds. (Amsterdam: Pergamon, an imprint of Elsevier) pp. 466-480

Potthoff, A., Soudah, B., Gebel, M. (2020). Kontrollierte Feinnadelpunktion in der Tumordiagnostik. In: Kompendium Internistische Onkologie : Standards in Diagnostik und Therapie, Schmoll H., eds. (Berlin, Heidelberg: Springer) pp. 1-6

Abstracts

Atkinson, S., Grove, J., Liebig, S., Astbury, S., Goldin, R.D., Quaglia, A., Bantel, H., Guha, N., Thursz, M., Strnad, P., Aithal, G. (2020).In alcoholic hepatitis, cyokeratin 18 serum fragments reflect ist severity and predict responsiveness to prednisolone. J Hepatol 73,5179. DOI: 10.1016/S0168-8278(20)30555-9

Dai, Z., Song, G., Balakrishnan, A., Yang, T., Yuan, Q., Möbus, S., Weiss, C., Bentler, M., Bantel, H., Jaeckel, E., Kispert, A., Vogel, A., Saborowski, A., Büning, H., Manns, M.P., Cantz, T., Ott, M., Sharma, A.D. (2020).Growth differentiation factor 11 attenuates liver fibrosis via expansion of liver progenitor cells. J Hepatol 73,5512. DOI: 10.1016/S0168-8278(20)30556-0

Liebig, S., Hohenester, S., Manns, M.P., Bantel, H. (2020).Non-invasive detection of NASH and significant fibrosis in NAFLD patients with low FIB-4. J Hepatol 73,5403. DOI: 10.1016/S0168-8278(20)30555-9

Liebig, S., Stöckmann, N., Geier, A., Rau, M., Schattenberg, J., Bahr, M., Manns, M., Schulze-Osthoff, K., Jaeckel, E., Bantel, H. (2020). Diagnostic algorithm to detect NASH and fibrosis in NAFLD patients with low NAFLD fibrosis score or liver stiffness. 36. Jahrestagung der Deutschen Arbeitsgemeinschaft zum Studium der Leber, 14.-15.02.2020, Mainz.

Lin, T., Wang, S., Feng, R., Shao, C., Yuan, X., Wandrer, F., Bantel, H., Marx, A., Ebert, M., Ding, H., Dooley, S., Weng, H. (2020).Activin-driven fate determination is pivotal for liver progenitor cells to take over hepatocytic function in in ACLF. Z Gastroenterol 58,e3. DOI: 10.1055/s-0039-3402106

Lin, T., Wang, S., Feng, R., Yuan, X., Liu, H., Shao, C., Wandrer, F., Marx, A., Ebert, M., Bantel, H., Dooley, S., Ding, H., Weng, H. (2020).Functional activin-HNF4A-coagulation axis in liver progenitor cells determines MELD score and outcome of acute-on-chronic liver failure. J Hepatol 73,5503. DOI: 10.1016/S0168-8278(20)30556-0

Wiegand, J., Günther, R., Naumann, U., Stötzel, U., Berg, C., Bantel, H., Stein, K., Heinzow, H., Kremer, A., Hofmann, W.P., Kautz, A., Beuers, U., Trautwein, C., Franke, A., Piotrowski, K., Berg, T. (2020). Implementation of a national registry for patients with primary biliary cholangitis (PBC): The German PBC cohort. DGVS Jahrestagung, September 2020.

sonstiges

Coller, K.E., Butler, E.K., Luk, K.C., Rodgers, M.A., Cassidy, M., Gersch, J., McNamara, A.L., Kuhns, M.C., Dawson, G.J., Kaptue, L., Bremer, B., Wedemeyer, H., Cloherty, G.A. (2020).Author Correction: Development and performance of prototype serologic and molecular tests for hepatitis delta infection Sci Rep 10,5942. DOI: 10.1038/s41598-020-62687-4

Lampertico, P., Mauss, S., Persico, M., Barclay, S.T., Marx, S., Lohmann, K., Bondin, M., Zhang, Z., Marra, F., Belperio, P.S., Wedemeyer, H., Flamm, S. (2020).Correction to: Real-World Clinical Practice Use of 8-Week Glecaprevir/Pibrentasvir in Treatment-Naive Patients with Compensated Cirrhosis. Adv Ther 37,4755-4756. DOI: 10.1007/s12325-020-01482-z

Stahl, K., Seeliger, B., Busch, M., Wiesner, O., Welte, T., Eder, M., Schafer, A., Bauersachs, J., Haller, H., Heim, A., Hoeper, M.M., David, S. (2020). Corrigendum to: Maintenance Immunosuppression Is Associated With Better Outcome in the 2017/2018 Influenza Epidemic *Open Forum Infect Dis* 7,ofaa027. DOI: 10.1093/ofid/ofaa027

Habilitationen

Saborowski, M. (2020). In-vivo-Technologien zur funktionellen Charakterisierung von Krebsgenen und Untersuchung neuer Therapieoptionen. Kumulative Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Solbach, P.C. (2020). Grundlagen und Anwendung neuer Therapiestrategien bei Clostridioides difficile Infektionen. Kumulative Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Stahl, K. (2020). Innovative Therapieverfahren in der internistischen Intensivmedizin. Kumulative Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Promotionen

Al-Ayoubi, J. (2018). Untersuchung virus-spezifischer T-Zellantworten gegen das gesamte Genom des Hepatitis E Virus. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Beer, B.N. (2017). Etablierung und Anwendungsmöglichkeiten humaner sowie muriner hepatischer Organoidzellkulturen in regenerativer Medizin und Krankheitsmodellierung Dissertation, Medizinische Hochschule Hannover, 2020

Berg, K.A. (2020). Functional characterization of the murine Serpina1-variant DOM-7 and development of highly efficient ecotropic viral vector systems for cell line development and protein production Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Bufe, S. (2019). Checkpoint Inhibitoren zur Therapie des hepatozellulären Karzinoms. Dissertation, Medizinische Hochschule Hannover, 2020

Fischer, M. (2019). Risikoeinschätzung von biliären Tumoren : Entwicklung und Validierung eines prognostischen Modells = Risk estimation for biliary tract cancer : development and validation of a prognostic score. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Hensel, I.V. (2020). Establishment of murine organoids with defined states of differentiation as a model for colonic ion transport. Dissertation, Medizinische Hochschule Hannover, 2020

Klein, A.L. (2019). Einfluss von IL-16 und IFN- α auf die Interaktion von CD4+ T-Zellen und NK-Zellen im Kontext der akuten Hepatitis C Erkrankung Dissertation, Medizinische Hochschule Hannover, 2020

Krooss, S. (2020). Gene therapeutic approaches and characterization of pathogenic mutations in liver-associated genes Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Lipinski, M.J. (2020). Häufigkeit und klinische Bedeutung spontaner portosystemischer Shunts bei Patienten mit fortgeschrittener Lebererkrankung und portaler Hypertension. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Stöckmann, N. (2019). Neuer diagnostischer Algorithmus zur Beurteilung der Krankheitsaktivität bei NAFLD. Dissertation, Medizinische Hochschule Hannover, 2020

Tenspolde, M. (2019). Chimäre Antigenrezeptor modifizierte regulatorische T-Zellen als mögliche therapeutische Intervention bei der soliden Organtransplantation Dissertation, Medizinische Hochschule Hannover, 2020

Tergast, T.L. (2019). Einflussfaktoren auf den klinischen Verlauf von Patienten mit dekompensierter Leberzirrhose und Aszites Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Wang, M.C. (2019). Evaluierung der transjugulären Diagnostik einschließlich Messung hepato-zentralvenöser Biomarkergradienten bei Patienten mit akutem Leberversagen Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Wolff, K. (2019). Establishing murine models of biliary and pancreatic cancer for the rapid functional annotation of cancer genes Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Yang, T. (2020). Therapeutic applications of transcription factor mediated (re-)programming in chronic liver diseases. Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Hämatologie, Hämostaseologie, Onkologie und Stammzelltransplantation – 6860

Originalpublikationen

Afshar, K., Matthias, K., Paulmann, V., Engel, B., Stiel, S., Schneider, N. (2020). Ärztliche Ausbildung im Fach Palliativmedizin an der Medizinischen Hochschule Hannover – Weiterentwicklung der interdisziplinären und sektorenübergreifenden Lehre im Querschnittsbereich Q13 (WEISE-Q13). *Schmerz* 34,140-147. DOI: 10.1007/s00482-019-00442-z

Al Malki, M.M., Yang, D., Labopin, M., Afanasyev, B., Angelucci, E., Bashey, A., Socie, G., Karduss-Urueta, A., Helbig, G., Bornhauser, M., Niittyvuopio, R., Ganser, A., Ciceri, F., Brecht, A., Koc, Y., Bejanyan, N., Ferraro, F., Kebriaei, P., Mokhtari, S., Ghobadi, A., Nakamura, R., Forman, S.J., Champlin, R., Mohty, M., Ciurea, S.O., Nagler, A. (2020). Comparing transplant outcomes in ALL patients after haploidentical with PTCy or matched unrelated donor transplantation *Blood Adv* 4,2073-2083. DOI: 10.1182/bloodadvances.2020001499

Averbuch, D., Tridello, G., Hoek, J., Mikulska, M., Pabst, T., Yanez San Segundo, L., Akan, H., Özcelik, T., Donnini, I., Klyasova, G., Botelho de Sousa, A., Zuckerman, T., Tecchio, C., de la Camara, R., Aki, S.Z., Ljungman, P., Gülbas, Z., Nicolas-Virelizier, E., Calore, E., Perruccio, K., Ram, R., Annaloro, C., Martino, R., Avni, B., Shaw, P.J., Jungova, A., Codeluppi, K., O'Brien, T., Waszczuk-Gajda, A., Battlle, M., Pouli, A., Lueck, C., Gil, L., Iacobelli, S., Styczynski, J., Engelhard, D., Cesaro, S. (2020). Intercontinental study on pre-engraftment and post-engraftment Gram-negative rods bacteremia in hematopoietic stem cell transplantation patients: Risk factors and association with mortality *J Infect* 81,882-894. DOI: 10.1016/j.jinf.2020.11.002

Baier, C., Linke, L., Eder, M., Schwab, F., Chaberny, I.F., Vonberg, R.P., Ebadi, E. (2020). Incidence, risk factors and healthcare costs of central line-associated nosocomial bloodstream infections in hematologic and oncologic patients *PLoS One* 15,e0227772. DOI: 10.1371/journal.pone.0227772

Becker, H., Pfeifer, D., Ihorst, G., Pantic, M., Wehrle, J., Rüter, B.H., Bullinger, L., Hackanson, B., Germing, U., Kuendgen, A., Platzbecker, U., Döhner, K., Ganser, A., Hagemeijer, A., Wijermans, P.W., Döhner, H., Duyster, J., Lübbert, M. (2020). Monosomal karyotype and chromosome 17p loss or TP53 mutations in decitabine-treated patients with acute myeloid leukemia *Ann Hematol* 99,1551-1560. DOI: 10.1007/s00277-020-04082-7

Bernard, E., Nannya, Y., Hasserjian, R.P., Devlin, S.M., Tuechler, H., Medina-Martinez, J.S., Yoshizato, T., Shiozawa, Y., Saiki, R., Malcovati, L., Levine, M.F., Arango, J.E., Zhou, Y., Sole, F., Cargo, C.A., Haase, D., Creignou, M., Germing, U., Zhang, Y., Gundem, G., Sarian, A., van de Loosdrecht, A.A., Jädersten, M., Tobiasson, M., Kosmider, O., Follo, M.Y., Thol, F., Pinheiro, R.F., Santini, V., Kotsianidis, I., Boultonwood, J., Santos, F.P.S., Schanz, J., Kasahara, S., Ishikawa, T., Tsurumi, H., Takaori-Kondo, A., Kiguchi, T., Polprasert, C., Bennett, J.M., Klimek, V.M., Savona, M.R., Belickova, M., Ganster, C., Palomo, L., Sanz, G., Ades, L., Della Porta, M.G., Smith, A.G., Werner, Y., Patel, M., Viale, A., Vanness, K., Neuberger, D.S., Stevenson, K.E., Menghrajani, K., Bolton, K.L., Fenaux, P., Pellagatti, A., Platzbecker, U., Heuser, M., Valent, P., Chiba, S., Miyazaki, Y., Finelli, C., Voso, M.T., Shih, L.Y., Fontenay, M., Jansen, J.H., Cervera, J., Atsuta, Y., Gattermann, N., Ebert, B.L., Bejar, R., Greenberg, P.L., Cazzola, M., Hellström-Lindberg, E., Ogawa, S., Papaemmanuil, E. (2020). Implications of TP53 allelic state for genome stability, clinical presentation and outcomes in myelodysplastic syndromes *Nat Med* 26,1549-1556. DOI: 10.1038/s41591-020-1008-z

Derlin, T., Schultze-Florey, C., Werner, R.A., Möhn, N., Skripuletz, T., David, S., Beutel, G., Eder, M., Ross, T.L., Bengel, F.M., Ganser, A., Koenecke, C. (2021). (18)F-FDG PET/CT of off-target lymphoid organs in CD19-targeting chimeric antigen receptor T-cell therapy for relapsed or refractory diffuse large B-cell lymphoma *Ann Nucl Med* 35,132-138. DOI: 10.1007/s12149-020-01544-w

Dobbelstein, C., Moschovakis, G.L., Tiede, A. (2020). Reduced-intensity, risk factor-stratified immunosuppression for acquired hemophilia A: single-center observational study *Ann Hematol* 99,2105-2112. DOI: 10.1007/s00277-020-04150-y

Engel, N.W., Reinert, J., Borchert, N.M., Panagiota, V., Gabdoulline, R., Thol, F., Heuser, M., Fiedler, W. (2021). Newly diagnosed isolated myeloid sarcoma-paired NGS panel analysis of extramedullary tumor and bone marrow *Ann Hematol* 100,499-503. DOI: 10.1007/s00277-020-04313-x

Erlmeier, F., Steffens, S., Stöhr, C., Herrmann, E., Polifka, I., Agaimy, A., Trojan, L., Ströbel, P., Becker, F., Wülfing, C., Barth, P., Stöckle, M., Staehler, M., Stief, C., Haferkamp, A., Hohenfellner, M., Macher-Göppinger, S., Wullich, B., Noldus, J., Brenner, W., Roos, F.C., Walther, B., Otto, W., Burger, M., Schrader, A.J., Hartmann, A., Ivanyi, P., (German Network Of Kidney Cancer). (2021). Characterization of PD-1 and PD-L1 Expression in Papillary Renal Cell Carcinoma: Results of a Large Multicenter Study *Clin Genitourin Cancer* 19,53-59.e1. DOI: 10.1016/j.clgc.2020.07.002

Fuhrmann, C., Struck, J.P., Ivanyi, P., Kramer, M.W., Hupe, M.C., Hensen, B., Fürschke, A., Peters, I., Merseburger, A.S., Kuczyk, M.A., von Klot, C.J. (2020). Checkpoint Inhibition for Metastatic Urothelial Carcinoma After Chemotherapy-Real-World Clinical Impressions and Comparative Review of the Literature *Front Oncol* 10,808. DOI: 10.3389/fonc.2020.00808

Gagelmann, N., Bogdanov, R., Stölzel, F., Rautenberg, C., Panagiota, V., Becker, H., Radujkovic, A., Luft, T., Christopheit, M., Finke, J., Platzbecker, U., Ditschkowski, M., Schroeder, T., Koldehoff, M., Heuser, M., Kobbe, G., Beelen, D.W., Germing, U., Kröger, N. (2021). Long-Term Survival Benefit after Allogeneic Hematopoietic Cell Transplantation for Chronic Myelomonocytic Leukemia *Biol Blood Marrow Transplant* 27,95.e1-95.e4. DOI: 10.1016/j.bbmt.2020.10.007

Garcia-Moure, M., Gonzalez-Huarriz, M., Labiano, S., Guruceaga, E., Bandres, E., Zalacain, M., Marrodan, L., de Andrea, C.E., Villalba Esparza, M., Martinez-Velez, N., Laspidea, V., Puigdelloses, M., Gallego Perez-Larraya, J., Inigo-Marco, I., Stripecke, R., Chan, J.A., Raabe, E.H., Kool, M., Gomez-Manzano, C., Fueyo, J., Patino-Garcia, A., Alonso, M.M. (2021). Delta-24-RGD, an oncolytic adenovirus, increases survival and promotes proinflammatory immune landscape remodeling in models of AT/RT and CNS-PNET *Clin Cancer Res* 27,1807-1820. DOI: 10.1158/1078-0432.CCR-20-3313

Giardino, S., de Latour, R.P., Aljurf, M., Eikema, D.J., Bosman, P., Bertrand, Y., Tbakhi, A., Holter, W., Bornhäuser, M., Rössig, C., Burkhardt, B., Zecca, M., Afanasyev, B., Michel, G., Ganser, A., Alseraihy, A., Ayas, M., Uckan-Cetinkaya, D., Bruno, B., Patrick, K., Bader, P., Itala-Remes, M., Rocha, V., Jubert, C., Diaz, M.A., Shaw, P.J., Junior, L.G.D., Locatelli, F., Kröger, N., Faraci, M., Pierr, F., Lanino, E., Miano, M., Risitano, A., Robin, M., Dufour, C., Severe Aplastic Anemia and Chronic Malignancies Working Parties of European Blood and Marrow Transplantation group. (2020). Outcome of patients with Fanconi anemia developing myelodysplasia and acute leukemia who received allogeneic hematopoietic stem cell transplantation: A retrospective analysis on behalf of EBMT group *Am J Hematol* 95,809-816. DOI: 10.1002/ajh.25810

Giebel, S., Labopin, M., Sobczyk-Kruszelnicka, M., Stelljes, M., Byrne, J.L., Fegueux, N., Beelen, D.W., Rovira, M., Spyridonidis, A., Blaise, D., Bornhäuser, M., Karadogan, I., Savani, B.N., Nagler, A., Mohty, M., Principal investigators of the contributing institutions. (2021). Total body irradiation + fludarabine compared to busulfan + fludarabine as "reduced-toxicity conditioning" for patients with acute myeloid leukemia treated with allogeneic hematopoietic cell transplantation in first complete remission: a study by the Acute Leukemia Working Party of the EBMT *Bone Marrow Transplant* 56,481-491. DOI: 10.1038/s41409-020-01050-7

Giesen, N., Sprute, R., Rührich, M., Khodamoradi, Y., Mellinghoff, S.C., Beutel, G., Lueck, C., Koldehoff, M., Hentrich, M., Sandherr, M., von Bergwelt-Baildon, M., Wolf, H.H., Hirsch, H.H., Wörmann, B., Cornely, O.A., Köhler, P., Schalk, E., von Lilienfeld-Toal, M. (2020). Evidence-based management of COVID-19 in cancer patients: Guideline by the Infectious Diseases Working Party (AGIHO) of the German Society for Haematology and Medical Oncology (DGHO) *Eur J Cancer* 140,86-104. DOI: 10.1016/j.ejca.2020.09.009

Grünwald, V., Karch, A., Schuler, M., Schöffski, P., Kopp, H.G., Bauer, S., Kasper, B., Lindner, L.H., Chemnitz, J.M., Crysandt, M., Stein, A., Steffen, B., Richter, S., Egerer, G., Ivanyi, P., Zimmermann, S., Liu, X., Kunitz, A. (2020). Randomized Comparison of Pazopanib and Doxorubicin as First-Line Treatment in Patients With Metastatic Soft Tissue Sarcoma Age 60 Years or Older: Results of a German Intergroup Study *J Clin Oncol* 38,3555-3564. DOI: 10.1200/JCO.20.00714

Heimerl, M., Sieve, I., Ricke-Hoch, M., Erschow, S., Battmer, K., Scherr, M., Hilfiker-Kleiner, D. (2020). Neuraminidase-1 promotes heart failure after ischemia/reperfusion injury by affecting cardiomyocytes and invading monocytes/macrophages *Basic Res Cardiol* 115,62. DOI: 10.1007/s00395-020-00821-z

Heinicke, T., Labopin, M., Polge, E., Stelljes, M., Ganser, A., Tischer, J., Brecht, A., Kröger, N., Beelen, D.W., Scheid, C., Bethge, W., Dreger, P., Bunjes, D., Wagner, E., Platzbecker, U., Savani, B.N., Nagler, A., Mohty, M. (2021). Evaluation of six different types of sequential conditioning regimens for allogeneic stem cell transplantation in relapsed/refractory acute myelogenous leukemia - a study of the Acute Leukemia Working Party of the EBMT *Leuk Lymphoma* 62,399-409. DOI: 10.1080/10428194.2020.1827248

Heuser, M., Palmisiano, N., Mantzaris, I., Mims, A., DiNardo, C., Silverman, L.R., Wang, E.S., Fiedler, W., Baldus, C., Schwind, S., Pardee, T., Perl, A.E., Cai, C., Kaulfuss, S., Lagkadinou, E., Rentzsch, C., Wagner, M., Wilkinson, G., Wu, B., Jeffers, M., Genvresse, I., Krämer, A. (2020). Safety and efficacy of BAY1436032 in IDH1-mutant AML: phase I study results *Leukemia* 34,2903-2913. DOI: 10.1038/s41375-020-0996-5

Holstein, K., Liu, X., Smith, A., Knobl, P., Klamroth, R., Geisen, U., Eichler, H., Miesbach, W., Tiede, A. (2020). Bleeding and response to hemostatic therapy in acquired hemophilia A: results from the GTH-AH 01/2010 study *Blood* 136,279-287. DOI: 10.1182/blood.2019003639

Ivanyi, P., Eggers, H., Hornig, M., Kasper, B., Heissner, K., Kopp, H.G., Kirstein, M., Ganser, A., Grünwald, V. (2020). Hepatic toxicity during regorafenib treatment in patients with metastatic gastrointestinal stromal tumors *Mol Clin Oncol* 13,72. DOI: 10.3892/mco.2020.2143

Jahn, N., Terzer, T., Sträng, E., Dolnik, A., Cocciardi, S., Panina, E., Corbacioglu, A., Herzig, J., Weber, D., Schrade, A., Götze, K., Schröder, T., Lübbert, M., Wellnitz, D., Koller, E., Schlenk, R.F., Gaidzik, V.I., Paschka, P., Rucker, F.G., Heuser, M., Thol, F., Ganser, A., Benner, A.,

Döhner, H., Bullinger, L., Döhner, K. (2020). Genomic heterogeneity in core-binding factor acute myeloid leukemia and its clinical implication *Blood Adv* 4,6342-6352. DOI: 10.1182/bloodadvances.2020002673

Jakob, C.E.M., Borgmann, S., Duygu, F., Behrends, U., Hower, M., Merle, U., Friedrichs, A., Tometten, L., Hanses, F., Jung, N., Rieg, S., Wille, K., Grüner, B., Klinker, H., Gersbacher-Runge, N., Hellwig, K., Eberwein, L., Dolff, S., Rauschnig, D., von Bergwelt-Baildon, M., Lanznaster, J., Strauss, R., Trauth, J., de With, K., Ruethrich, M., Lueck, C., Nattermann, J., Tschardtke, L., Pilgram, L., Fuhrmann, S., Clasen, A., Stecher, M., Schons, M., Spinner, C., Vehreschild, J.J. (2020). First results of the "Lean European Open Survey on SARS-CoV-2-Infected Patients (LEOSS)" *Infection* 49,63. DOI: 10.1007/s15010-020-01499-0

Kapp-Schwoerer, S., Weber, D., Corbacioglu, A., Gaidzik, V.I., Paschka, P., Kronke, J., Theis, F., Rucker, F.G., Teleanu, M.V., Panina, E., Jahn, N., Herzig, J., Kubanek, L., Schrade, A., Göhring, G., Fiedler, W., Kindler, T., Schroeder, T., Mayer, K.T., Lübbert, M., Wattad, M., Gotze, K.S., Horst, H.A., Koller, E., Wulf, G., Schleicher, J., Bentz, M., Krauter, J., Bullinger, L., Krzykalla, J., Benner, A., Schlenk, R.F., Thol, F., Heuser, M., Ganser, A., Döhner, H., Döhner, K. (2020). Impact of gemtuzumab ozogamicin on MRD and relapse risk in patients with NPM1-mutated AML: results from the AMLSG 09-09 trial *Blood* 136,3041-3050. DOI: 10.1182/blood.2020005998

Kattih, B., Shirvani, A., Klement, P., Garrido, A.M., Gabdoulline, R., Liebich, A., Brandes, M., Chaturvedi, A., Seeger, T., Thol, F., Göhring, G., Schlegelberger, B., Geffers, R., John, D., Bavendiek, U., Bauersachs, J., Ganser, A., Heineke, J., Heuser, M. (2021). IDH1/2 mutations in acute myeloid leukemia patients and risk of coronary artery disease and cardiac dysfunction—a retrospective propensity score analysis *Leukemia* 35,1301-1316. DOI: 10.1038/s41375-020-01043-x

Kirchhoff, H., Karsli, U., Schoenherr, C., Battmer, K., Erschow, S., Talbot, S.R., Steinemann, D., Heuser, M., Heidenreich, O., Hilfiker-Kleiner, D., Ganser, A., Eder, M., Scherr, M. (2021). Venetoclax and dexamethasone synergize with inotuzumab-ozogamicin induced DNA damage signaling in B-lineage ALL. *Blood* 137,2657-2661. DOI: 10.1182/blood.2020008544

Kloos, A., Mintzas, K., Winckler, L., Gabdoulline, R., Alwie, Y., Jyotsana, N., Kattre, N., Schottmann, R., Scherr, M., Gupta, C., Adams, F.F., Schwarzer, A., Heckl, D., Schambach, A., Imren, S., Humphries, R.K., Ganser, A., Thol, F., Heuser, M. (2020). Effective drug treatment identified by in vivo screening in a transplantable patient-derived xenograft model of chronic myelomonocytic leukemia *Leukemia* 34,2951-2963. DOI: 10.1038/s41375-020-0929-3

Krooss, S., Werwitzke, S., Kopp, J., Rovai, A., Varnholt, D., Wachs, A.S., Goyenvalle, A., Aarstma-Rus, A., Ott, M., Tiede, A., Langemeier, J., Bohne, J. (2020). Pathological mechanism and antisense oligonucleotide-mediated rescue of a non-coding variant suppressing factor 9 RNA biogenesis leading to hemophilia B *PLoS Genet* 16,DOI: 10.1371/journal.pgen.1008690

Loke, J., Labopin, M., Craddock, C., Niederwieser, D., Cornelissen, J., Afansayev, B., Jindra, P., Maertens, J., Blaise, D., Boriskina, K., Gramatzki, M., Ganser, A., Savani, B., Mohty, M., Nagler, A. (2021). Impact of patient: donor HLA disparity on reduced-intensity-conditioned allogeneic stem cell transplants from HLA mismatched unrelated donors for AML: from the ALWP of the EBMT Bone Marrow Transplant 56,614-621. DOI: 10.1038/s41409-020-01072-1

Malcovati, L., Stevenson, K., Papaemmanuil, E., Neubergh, D., Bejar, R., Boultonwood, J., Bowen, D.T., Campbell, P.J., Ebert, B.L., Fenaux, P., Haferlach, T., Heuser, M., Jansen, J.H., Komrokji, R.S., Maciejewski, J.P., Walter, M.J., Fontenay, M., Garcia-Manero, G., Graubert, T.A., Karsan, A., Meggendorfer, M., Pellagatti, A., Sallman, D.A., Savona, M.R., Sekeres, M.A., Steensma, D.P., Tauro, S., Thol, F., Vyas, P., Van de Loosdrecht, A.A., Haase, D., Tüchler, H., Greenberg, P.L., Ogawa, S., Hellstrom-Lindberg, E., Cazzola, M. (2020). SF3B1-mutant MDS as a distinct disease subtype: a proposal from the International Working Group for the Prognosis of MDS *Blood* 136,157-170. DOI: 10.1182/blood.2020004850

Mir, P., Klimiankou, M., Findik, B., Hähnel, K., Mellor-Heineke, S., Zeidler, C., Skokowa, J., Welte, K. (2020). New insights into the pathomechanism of cyclic neutropenia *Ann N Y Acad Sci* 1466,83-92. DOI: 10.1111/nyas.14309

Mohanty, S., Jyotsana, N., Sharma, A., Kloos, A., Gabdoulline, R., Othman, B., Lai, C.K., Schottmann, R., Mandhania, M., Schmoellerl, J., Grebien, F., Ramsay, E., Thomas, A., Vornlocher, H.P., Ganser, A., Thol, F., Heuser, M. (2020). Targeted Inhibition of the NUP98-NSD1 Fusion Oncogene in Acute Myeloid Leukemia Cancers (Basel) 12,DOI: 10.3390/cancers12102766

Möhn, N., Mahjoub, S., Gutzmer, R., Satzger, I., Beutel, G., Ivanyi, P., Golpon, H., Wattjes, M.P., Stangel, M., Skripuletz, T. (2020). Diagnosis and Differential Diagnosis of Neurological Adverse Events during Immune Checkpoint Inhibitor Therapy *J Oncol* 2020,DOI: 10.1155/2020/8865054

Montesinos, P., Roboz, G.J., Bulabois, C.E., Subklewe, M., Platzbecker, U., Ofran, Y., Papayannidis, C., Wierzbowska, A., Shin, H.J., Doronin, V., Deneberg, S., Yeh, S.P., Ozcan, M.A., Knapper, S., Cortes, J., Pollyea, D.A., Ossenkoppele, G., Giralt, S., Döhner, H., Heuser, M., Xiu, L., Singh, I., Huang, F., Larsen, J.S., Wei, A.H. (2021). Safety and efficacy of talacotuzumab plus decitabine or decitabine alone in patients with acute myeloid leukemia not eligible for chemotherapy: results from a multicenter, randomized, phase 2/3 study *Leukemia* 35,62-74. DOI: 10.1038/s41375-020-0773-5

Odak, I., Barros-Martins, J., Bosnjak, B., Stahl, K., David, S., Wiesner, O., Busch, M., Hoepfer, M.M., Pink, I., Welte, T., Cornberg, M., Stoll, M., Goudeva, L., Blasczyk, R., Ganser, A., Prinz, I., Förster, R., Koenecke, C., Schultze-Florey, C.R. (2020). Reappearance of effector T cells is associated with recovery from COVID-19 *EBioMedicine* 57,102885. DOI: 10.1016/j.ebiom.2020.102885

Odak, I., Depkat-Jakob, A., Beck, M., Jarek, M., Yu, Y., Seidler, U., David, S., Ganser, A., Förster, R., Prinz, I., Koenecke, C. (2020). Donor-derived IL-17A and IL-17F deficiency triggers Th1 allo-responses and increases gut leakage during acute GVHD. *PLoS One* 15,e0231222. DOI: 10.1371/journal.pone.0231222

Olbrich, H., Theobald, S.J., Slabik, C., Gerasch, L., Schneider, A., Mach, M., Shum, T., Mamonkin, M., Stripecke, R. (2020). Adult and Cord Blood-Derived High-Affinity gB-CAR-T Cells Effectively React Against Human Cytomegalovirus Infections *Hum Gene Ther* 31,423-439. DOI: 10.1089/hum.2019.149

Papadaki, H.A., Mavroudi, I., Almeida, A., Bux, J., Cichy, J., Dale, D.C., Donadieu, J., Höglund, P., Karanfilski, O., Mecucci, C., Palmblad, J., Skokowa, J., Stamatopoulos, K., Touw, I., Warren, A.J., Welte, K., Zeidler, C., Dufour, C. (2020). Congenital and Acquired Chronic Neutropenias: Challenges, Perspectives and Implementation of the EuNet-INNOCHRON Action Hemisphere 4,e406. DOI: 10.1097/HS9.0000000000000406

Penack, O., Peczynski, C., Mohty, M., Yakoub-Agha, I., Styczynski, J., Montoto, S., Duarte, R.F., Kröger, N., Schoemans, H., Koenecke, C., Peric, Z., Basak, G.W. (2020). How much has allogeneic stem cell transplant-related mortality improved since the 1980s? A retrospective analysis from the EBMT Blood Adv 4,6283-6290. DOI: 10.1182/bloodadvances.2020003418

Pinana, J.L., Xhaard, A., Tridello, G., Passweg, J., Kozijn, A., Polverelli, N., Heras, I., Perez, A., Sanz, J., Berghuis, D., Vazquez, L., Suarez-Lledo, M., Itälä-Remes, M., Ozcelik, T., Iturrate Basaran, I., Karakukcu, M., Al Zahrani, M., Choi, G., Cuesta Casas, M.A., Batlle Massana, M., Viviana, A., Blijlevens, N., Ganser, A., Kuskonmaz, B., Labussiere-Wallet, H., Shaw, P.J., Arzu Yegin, Z., Gonzalez-Vicent, M., Rocha, V., Ferster, A., Knelange, N., Navarro, D., Mikulska, M., de la Camara, R., Styczynski, J., Infectious Diseases Working Party of the European Society for Blood and Marrow Transplantation and Infectious Complications Subcommittee of the Spanish Hematopoietic Stem Cell Transplantation and Cell Therapy Group (GETH). (2021). Seasonal human coronaviruses respiratory tract infection in recipients of allogeneic hematopoietic stem cell transplantation *J Infect Dis* 223,1564-1575. DOI: 10.1093/infdis/jiaa553

Poiani, M., Labopin, M., Battipaglia, G., Beelen, D.W., Tischer, J., Finke, J., Brecht, A., Forcade, E., Ganser, A., Passweg, J.R., Labussiere-Wallet, H., Yakoub-Agha, I., Schäfer-Eckart, K., Kroeger, N., Guffroy, B., Ruggeri, A., Esteve, J., Nagler, A., Mohty, M. (2021). The impact of cytogenetic risk on the outcomes of allogeneic hematopoietic cell transplantation in patients with relapsed/refractory acute myeloid leukemia: On behalf of the acute leukemia working party (ALWP) of the European group for blood and marrow transplantation (EBMT) *Am J Hematol* 96,40-50. DOI: 10.1002/ajh.26000

Ramackers, W., Rataj, D., Werwitzke, S., Bergmann, S., Winkler, M., Wunsch, A., Bähr, A., Wolf, E., Klymiuk, N., Ayares, D., Tiede, A. (2020). Expression of human thrombomodulin on porcine endothelial cells can reduce platelet aggregation but did not reduce activation of complement or endothelium - an experimental study. *Transpl Int* 33,437-449. DOI: 10.1111/tri.13573

Riesner, K., Cordes, S., Peczynski, C., Kalupa, M., Schwarz, C., Shi, Y., Mertlitz, S., Mengwasser, J., van der Werf, S., Peric, Z., Koenecke, C., Schoemans, H., Duarte, R.F., Basak, G.W., Penack, O. (2020). Reduced Calcium Signaling Is Associated With Severe Graft-Versus-Host Disease: Results From Preclinical Models and From a Prospective EBMT Study *Front Immunol* 11,1983. DOI: 10.3389/fimmu.2020.01983

Rodriguez-Arboli, E., Labopin, M., Tischer, J., Brecht, A., Ganser, A., Finke, J., Blau, I.W., Kröger, N., Kalhs, P., Forcade, E., Bunjes, D., Spyridonidis, A., Savani, B., Nagler, A., Mohty, M. (2020). FLAMSA-Based Reduced-Intensity Conditioning versus Myeloablative Conditioning in Younger Patients with Relapsed/Refractory Acute Myeloid Leukemia with Active Disease at the Time of Allogeneic Stem Cell Transplantation: An Analysis from the Acute Leukemia Working Party of the European Society for Blood and Marrow Transplantation *Biol Blood Marrow Transplant* 26,2165-2173. DOI: 10.1016/j.bbmt.2020.07.020

Ruiz-Garcia, A., Shaik, N., Lin, S., Jamieson, C., Heuser, M., Chan, G. (2020). Evaluation of the Relationship of Glasdegib Exposure and Safety End Points in Patients With Refractory Solid Tumors and Hematologic Malignancies *J Clin Pharmacol* DOI: 10.1002/jcph.1742

Sandler, R.D., Tattersall, R.S., Schoemans, H., Greco, R., Badoglio, M., Labopin, M., Alexander, T., Kirgizov, K., Rovira, M., Saif, M., Saccardi, R., Delgado, J., Peric, Z., Koenecke, C., Penack, O., Basak, G., Snowden, J.A. (2020). Diagnosis and Management of Secondary HLH/MAS Following HSCT and CAR-T Cell Therapy in Adults; A Review of the Literature and a Survey of Practice Within EBMT Centres on Behalf of the Autoimmune Diseases Working Party (ADWP) and Transplant Complications Working Party (TCWP) *Front Immunol* 11,524. DOI: 10.3389/fimmu.2020.00524

Schmaelter, A.K., Labopin, M., Socie, G., Itälä-Remes, M., Blaise, D., Yakoub-Agha, I., Forcade, E., Cornelissen, J., Ganser, A., Beelen, D., Labussiere-Wallet, H., Passweg, J., Savani, B.N., Schmid, C., Nagler, A., Mohty, M. (2020). Inferior outcome of allogeneic stem cell transplantation for secondary acute myeloid leukemia in first complete remission as compared to de novo acute myeloid leukemia *Blood Cancer J* 10,26. DOI: 10.1038/s41408-020-0296-3

Schmitz, C., Rekowski, J., Müller, S.P., Farsijani, N., Hertenstein, B., Franzius, C., von Verschuer, U., La Rosee, P., Freesmeyer, M., Wilop, S., Krohn, T., Raghavachar, A., Ganser, A., Bengel, F.M., Prange-Krex, G., Kroschinsky, F., Kotzerke, J., Giagounidis, A., Dührsen, U., Hüttmann, A. (2020). Impact of complete surgical resection on outcome in aggressive non-Hodgkin lymphoma treated with immunochemotherapy *Cancer Med* *9*,8386-8396. DOI: 10.1002/cam4.3448

Schmitz, C., Rekowski, J., Müller, S.P., Hertenstein, B., Franzius, C., Ganser, A., Bengel, F.M., Kroschinsky, F., Kotzerke, J., La Rosee, P., Freesmeyer, M., Hoeffkes, H.G., Hertel, A., Behringer, D., Mesters, R., Weckesser, M., Mahlmann, S., Haberkorn, U., Martens, U., Prange-Krex, G., Brenner, W., Giagounidis, A., Moeller, R., Runde, V., Sandmann, M., Hautzel, H., Wilop, S., Krohn, T., Dürk, H., Heike, M., Alashkar, F., Brinkmann, M., Trenn, G., Wacker, D., Kreisel-Bustgens, C., Bernhard, H., Heil, G., Larisch, R., Kurch, L., Jöckel, K.H., Hoelzer, D., Klapper, W., Boellaard, R., Dührsen, U., Hüttmann, A. (2020). Baseline and interim PET-based outcome prediction in peripheral T-cell lymphoma: A subgroup analysis of the PETAL trial. *Hematol Oncol* *38*,244-256. DOI: 10.1002/hon.2697

Schmoellerl, J., Barbosa, I.A.M., Eder, T., Brandstötter, T., Schmidt, L., Maurer, B., Troester, S., Pham, H.T.T., Sagarajit, M., Ebner, J., Manhart, G., Aslan, E., Terlecki-Zaniewicz, S., Van der Veen, C., Hoermann, G., Duployez, N., Petit, A., Lapillonne, H., Puissant, A., Itzykson, R., Moriggl, R., Heuser, M., Meisel, R., Valent, P., Sexl, V., Zuber, J., Grebien, F. (2020). CDK6 is an essential direct target of NUP98 fusion proteins in acute myeloid leukemia *Blood* *136*,387-400. DOI: 10.1182/blood.2019003267

Slabik, C., Kalbarczyk, M., Danisch, S., Zeidler, R., Klawonn, F., Volk, V., Krönke, N., Feuerhake, F., Ferreira de Figueiredo, C., Blasczyk, R., Olbrich, H., Theobald, S.J., Schneider, A., Ganser, A., von Kaisenberg, C., Lienenklaus, S., Bleich, A., Hammerschmidt, W., Stripecke, R. (2020). CAR-T Cells Targeting Epstein-Barr Virus gp350 Validated in a Humanized Mouse Model of EBV Infection and Lymphoproliferative Disease *Mol Ther Oncolytics* *18*,504-524. DOI: 10.1016/j.omto.2020.08.005

Solms, A., Shah, A., Berntorp, E., Tiede, A., Iorio, A., Linardi, C., Ahsman, M., Mancuso, M.E., Zhivkov, T., Lissitchkov, T. (2020). Direct comparison of two extended half-life PEGylated recombinant FVIII products: a randomized, crossover pharmacokinetic study in patients with severe hemophilia A *Ann Hematol* *99*,2689-2698. DOI: 10.1007/s00277-020-04280-3

Spyridonidis, A., Labopin, M., Savani, B.N., Niittyvuopio, R., Blaise, D., Craddock, C., Socie, G., Platzbecker, U., Beelen, D., Milpied, N., Cornelissen, J.J., Ganser, A., Huynh, A., Griskevicius, L., Giebel, S., Aljurf, M., Brissot, E., Malard, F., Esteve, J., Peric, Z., Baron, F., Ruggeri, A., Schmid, C., Gilleece, M., Gorin, N.C., Lanza, F., Shouval, R., Versluis, J., Bug, G., Floisand, Y., Ciceri, F., Sanz, J., Bazarbachi, A., Nagler, A., Mohty, M. (2020). Redefining and measuring transplant conditioning intensity in current era: a study in acute myeloid leukemia patients *Bone Marrow Transplant* *55*,1114-1125. DOI: 10.1038/s41409-020-0803-y

Stahl, K., Schmidt, B.M.W., Hoepfer, M.M., Skripuletz, T., Möhn, N., Beutel, G., Eder, M., Welte, T., Ganser, A., Falk, C.S., Koenecke, C., David, S. (2020). Extracorporeal cytokine removal in severe CAR-T cell associated cytokine release syndrome *J Crit Care* *57*,124-129. DOI: 10.1016/j.jcrc.2020.02.010

Stelling, E., Ricke-Hoch, M., Erschow, S., Hoffmann, S., Bergmann, A.K., Heimerl, M., Pietzsch, S., Battmer, K., Haase, A., Stapel, B., Scherr, M., Balligand, J.L., Binah, O., Hilfiker-Kleiner, D. (2020). Increased prostaglandin-D2 in male STAT3-deficient hearts shifts cardiac progenitor cells from endothelial to white adipocyte differentiation *PLoS Biol* *18*,e3000739. DOI: 10.1371/journal.pbio.3000739

Stengel, A., Shahswar, R., Haferlach, T., Walter, W., Hutter, S., Meggendorfer, M., Kern, W., Haferlach, C. (2020). Whole transcriptome sequencing detects a large number of novel fusion transcripts in patients with AML and MDS *Blood Adv* *4*,5393-5401. DOI: 10.1182/bloodadvances.2020003007

Theobald, S.J., Kreer, C., Khailaie, S., Bonifacius, A., Eiz-Vesper, B., Figueiredo, C., Mach, M., Backovic, M., Ballmaier, M., Koenig, J., Olbrich, H., Schneider, A., Volk, V., Danisch, S., Gieselmann, L., Ercanoglu, M.S., Messerle, M., Kaisenberg, C.V., Witte, T., Klawonn, F., Meyer-Hermann, M., Klein, F., Stripecke, R. (2020). Repertoire characterization and validation of gB-specific human IgGs directly cloned from humanized mice vaccinated with dendritic cells and protected against HCMV *PLoS Pathog* *16*,e1008560. DOI: 10.1371/journal.ppat.1008560

Thome, C.H., Ferreira, G.A., Pereira-Martins, D.A., Dos Santos, G.A., Ortiz, C.A., de Souza, L.E.B., Sobral, L.M., Silva, C.L.A., Scheucher, P.S., Gil, C.D., Leopoldino, A.M., Silveira, D.R.A., Coelho-Silva, J.L., Traina, F., Koury, L.C., Melo, R.A.M., Bittencourt, R., Pagnano, K., Pasquini, R., Nunes, E.C., Fagundes, E.M., Gloria, A.B.F., Kerbauy, F.R., Chauffaille, M.L., Keating, A., Tallman, M.S., Ribeiro, R.C., Dillon, R., Ganser, A., Löwenberg, B., Valk, P., Lo-Coco, F., Sanz, M.A., Berliner, N., Faca, V.M., Rego, E.M. (2020). NTAL is associated with treatment outcome, cell proliferation and differentiation in acute promyelocytic leukemia *Sci Rep* *10*,10315. DOI: 10.1038/s41598-020-66223-2

Tiede, A., Abdul Karim, F., Jimenez-Yuste, V., Klamroth, R., Lejniece, S., Suzuki, T., Groth, A., Santagostino, E. (2021). Factor VIII activity and bleeding risk during prophylaxis for severe hemophilia A: a population pharmacokinetic model *Haematologica* *106*,1902-1909. DOI: 10.3324/haematol.2019.241554

Tiede, A., Bonanad, S., Santamaria, A., Goldmann, G., Canaro, M., Palomero, A., Frade, L.J.G., Eduardo Megias-Vericat, J., Martinez, F., Garcia Candel, F., Jimenez Yuste, V., Sparber-Sauer, M., Halimeh, S., Adolf, D., Hukauf, M., Reichmann, J., Oldenburg, J. (2020). Quality of

electronic treatment records and adherence to prophylaxis in haemophilia and von Willebrand disease: Systematic assessments from an electronic diary Haemophilia 26,999-1008. DOI: 10.1111/hae.14178

Tosetto, A., Badiie, Z., Baghaipour, M.R., Baronciani, L., Battle, J., Berntorp, E., Bodo, I., Budde, U., Castaman, G., Eikenboom, J.C.J., Eshghi, P., Ettore, C., Goodeve, A., Goudemand, J., Hay, C.R.M., Hoorfar, H., Karimi, M., Keikhaei, B., Lassila, R., Leebeek, F.W.G., Lopez Fernandez, M.F., Mannucci, P.M., Mazzucconi, M.G., Morfini, M., Oldenburg, J., Peake, I., Parra Lopez, R., Peyvandi, F., Schneppenheim, R., Tiede, A., Toogeh, G., Trossaert, M., Zekavat, O., Zetterberg, E.M.K., Federici, A.B. (2020). Bleeding symptoms in patients diagnosed as type 3 von Willebrand disease: Results from 3WINTERS-IPS, an international and collaborative cross-sectional study J Thromb Haemost 18,2145-2154. DOI: 10.1111/jth.14886

Volk, V., Theobald, S.J., Danisch, S., Khailaie, S., Kalbarczyk, M., Schneider, A., Bialek-Waldmann, J., Krönke, N., Deng, Y., Eiz-Vesper, B., Dragon, A.C., von Kaisenberg, C., Lienenklaus, S., Bleich, A., Keck, J., Meyer-Hermann, M., Klawonn, F., Hammerschmidt, W., Delecluse, H.J., Münz, C., Feuerhake, F., Stripecke, R. (2021). PD-1 Blockade Aggravates Epstein-Barr Virus(+) Post-Transplant Lymphoproliferative Disorder in Humanized Mice Resulting in Central Nervous System Involvement and CD4(+) T Cell Dysregulations Front Oncol 10,614876. DOI: 10.3389/fonc.2020.614876

Vollack-Hesse, N., Oleshko, O., Werwitzke, S., Solecka-Witulska, B., Kannicht, C., Tiede, A. (2021). Recombinant VWF Fragments Improve Bioavailability of Subcutaneous Factor VIII in Hemophilia A Mice Blood 137,1072-1081. DOI: 10.1182/blood.202006468

Voso, M.T., Larson, R.A., Jones, D., Marcucci, G., Prior, T., Krauter, J., Heuser, M., Lavorgna, S., Nomdedeu, J., Geyer, S.M., Walker, A., Wei, A.H., Sierra, J., Sanz, M.A., Brandwein, J.M., de Witte, T.M., Jansen, J.H., Niederwieser, D., Appelbaum, F.R., Medeiros, B.C., Tallman, M.S., Schlenk, R.F., Ganser, A., Amadori, S., Cheng, Y., Chen, Y., Pallaud, C., Du, L., Piciocchi, A., Ehninger, G., Byrd, J., Thiede, C., Döhner, K., Stone, R.M., Döhner, H., Bloomfield, C.D., Lo-Coco, F. (2020). Midostaurin in patients with acute myeloid leukemia and FLT3-TKD mutations: a subanalysis from the RATIFY trial Blood Adv 4,4945-4954. DOI: 10.1182/bloodadvances.202002904

Wehner, J.E., Boehne, M., David, S., Brand, K., Tiede, A., Bikker, R. (2020). Activated Clotting Time (ACT) for Monitoring of Low-Dose Heparin: Performance Characteristics in Healthy Adults and Critically Ill Patients Clin Appl Thromb Hemost 26, DOI: 10.1177/1076029620975494

Wei, A.H., Döhner, H., Pocock, C., Montesinos, P., Afanasyev, B., Dombret, H., Ravandi, F., Sayar, H., Jang, J.H., Porkka, K., Selleslag, D., Sandhu, I., Turgut, M., Giai, V., Ofran, Y., Kizil Cakar, M., Botelho de Sousa, A., Rybka, J., Frairia, C., Borin, L., Beltrami, G., Cermak, J., Ossenkoppele, G.J., La Torre, I., Skikne, B., Kumar, K., Dong, Q., Beach, C.L., Roboz, G.J., QUAZAR AML-001 Trial Investigators. (2020). Oral Azacitidine Maintenance Therapy for Acute Myeloid Leukemia in First Remission N Engl J Med 383,2526-2537. DOI: 10.1056/NEJMoa2004444

Weinhäuser, I., Pereira-Martins, D.A., Ortiz, C., Silveira, D.R., Simões, L.A.A., Bianco, T.M., Araujo, C.L., Koury, L.C., Melo, R.A.M., Bittencourt, R.I., Pagnano, K., Pasquini, R., Nunes, E.C., Fagundes, E.M., Gloria, A.B., Kerbauy, F., Chauffaille, M.L., Keating, A., Tallman, M.S., Ribeiro, R.C., Dillon, R., Ganser, A., Löwenberg, B., Valk, P., Lo-Coco, F., Sanz, M.A., Berliner, N., Ammatuna, E., Lucena-Araujo, A.R., Schuringa, J.J., Rego, E.M. (2020). Reduced SLIT2 is Associated with Increased Cell Proliferation and Arsenic Trioxide Resistance in Acute Promyelocytic Leukemia Cancers (Basel) 12, DOI: 10.3390/cancers12113134

Weissinger, E.M., Metzger, J., Schleuning, M., Schmid, C., Messinger, D., Beutel, G., Wagner-Drouet, E.M., Schetelig, J., Baumann, H., Rank, A., Stolz, F., Schäfer-Eckart, K., Westphal, K., Bethge, W., von Harsdorf, S., Bunjes, D.W., Heidenreich, D., Klein, S., Holler, E., Kreipe, H.H., Jonigk, D., Türüchanow, I., Raad, J., Papkalla, A., von der Leyen, H., Hambach, L., Hamwi, I., Ehrlich, S., Krauter, J., Stadler, M., Ganser, A. (2021). A multicenter prospective, randomized, placebo-controlled phase II/III trial for preemptive acute graft-versus-host disease therapy Leukemia 35,1763-1772. DOI: 10.1038/s41375-020-01059-3

Winkel, A., Jaimas, Y., Melzer, C., Dillschneider, P., Hartwig, H., Stiesch, M., von der Ohe, J., Strauss, S., Vogt, P.M., Hamm, A., Burmeister, L., Roger, Y., Elger, K., Floerkemeier, T., Weissinger, E.M., Pogozhykh, O., Müller, T., Selich, A., Rothe, M., Petri, S., Köhl, U., Hass, R., Hoffmann, A. (2020). Cell culture media notably influence properties of human mesenchymal stroma/stem-like cells from different tissues. Cytotherapy 22,653-668. DOI: 10.1016/j.jcyt.2020.07.005

Yu, P., Lan, H., Song, X., Pan, Z. (2020). High Expression of the SH3TC2-DT/SH3TC2 Gene Pair Associated With FLT3 Mutation and Poor Survival in Acute Myeloid Leukemia: An Integrated TCGA Analysis Front Oncol 10,829. DOI: 10.3389/fonc.2020.00829

Zeiser, R., von Bubnoff, N., Butler, J., Mohty, M., Niederwieser, D., Or, R., Szer, J., Wagner, E.M., Zuckerman, T., Mahuzier, B., Xu, J., Wilke, C., Gandhi, K.K., Socie, G., REACH2 Trial Group. (2020). Ruxolitinib for Glucocorticoid-Refractory Acute Graft-versus-Host Disease N Engl J Med 382,1800-1810. DOI: 10.1056/NEJMoa1917635

Leitlinien von Fachgesellschaften

Heuser, M., Ofran, Y., Boissel, N., Brunet Mauri, S., Craddock, C., Janssen, J., Wierzbowska, A., Buske, C., ESMO Guidelines Committee. (2020). Acute myeloid leukaemia in adult patients: ESMO Clinical Practice Guidelines for diagnosis, treatment and follow-up Ann Oncol 31,697-712. DOI: 10.1016/j.annonc.2020.02.018

Übersichtsarbeiten

Cortes, J.E., Candoni, A., Clark, R.E., Leber, B., Montesinos, P., Vyas, P., Zeidan, A.M., Heuser, M. (2020). Selection and management of older patients with acute myeloid leukemia treated with glasdegib plus low-dose cytarabine: expert panel review *Leuk Lymphoma* *61*,3287-3305. DOI: 10.1080/10428194.2020.1817445

Goebell, P.J., Ivanyi, P., Bedke, J., Bergmann, L., Berthold, D., Boegemann, M., Busch, J., Doehn, C., Krega, S., Retz, M., Amsberg, G.V., Grimm, M.O., Gruenwald, V. (2020). Consensus paper: current state of first- and second-line therapy in advanced clear-cell renal cell carcinoma *Future Oncol* *16*,2307-2328. DOI: 10.2217/fon-2020-0403

Koenig, J., Theobald, S.J., Stripecke, R. (2020). Modeling Human Cytomegalovirus in Humanized Mice for Vaccine Testing *Vaccines (Basel)* *8*,DOI: 10.3390/vaccines8010089

Miller, K., Bergmann, L., Doehn, C., Grünwald, V., Gschwend, J.E., Ivanyi, P., Keilholz, U., Kuczyk, M.A. (2020). Interdisziplinäre Empfehlungen zur Behandlung des fortgeschrittenen Nierenzellkarzinoms *Aktuelle Urol* *51*,572-581. DOI: 10.1055/a-1252-1780

Penack, O., Koenecke, C. (2020). Complications after CD19+ CAR T-Cell Therapy *Cancers (Basel)* *12*,DOI: 10.3390/cancers12113445

Stenzinger, A., van Tilburg, C.M., Tabatabai, G., Länger, F., Graf, N., Griesinger, F., Heukamp, L.C., Hummel, M., Klingebiel, T., Hettmer, S., Vokuhl, C., Merkelbach-Bruse, S., Overkamp, F., Reichardt, P., Scheer, M., Weichert, W., Westphalen, C.B., Bokemeyer, C., Ivanyi, P., Loges, S., Schirmacher, P., Wörmann, B., Bielack, S., Seufferlein, T.T.W. (2021). Diagnostik und Therapie von Tumoren mit NTRK-Genfusionen *Pathologe* *42*,103-115. DOI: 10.1007/s00292-020-00864-y

Stripecke, R., Münz, C., Schuringa, J.J., Bissig, K.D., Soper, B., Meeham, T., Yao, L.C., Di Santo, J.P., Brehm, M., Rodriguez, E., Wege, A.K., Bonnet, D., Guionaud, S., Howard, K.E., Kitchen, S., Klein, F., Saeb-Parsy, K., Sam, J., Sharma, A.D., Trumpp, A., Trusolino, L., Bult, C., Shultz, L. (2020). Innovations, challenges, and minimal information for standardization of humanized mice *EMBO Mol Med* *12*,e8662. DOI: 10.15252/emmm.201708662

Thol, F., Ganser, A. (2020). Treatment of Relapsed Acute Myeloid Leukemia *Curr Treat Options Oncol* *27*,66. DOI: 10.1007/s11864-020-00765-5

Tiede, A. (2021). Critical Bleeding in Acquired Hemophilia A: Bypassing Agents or Recombinant Porcine Factor VIII? *Hamostaseologie* *41*,240-245. DOI: 10.1055/a-1171-0522

Tiede, A., Alberio, L. (2020). The Art of Detecting Antibodies against Factor VIII *Hamostaseologie* *40*,485-490. DOI: 10.1055/a-1223-3353

Tiede, A., Collins, P., Knoebl, P., Teitel, J., Kessler, C., Shima, M., Di Minno, G., d'Oiron, R., Salaj, P., Jimenez-Yuste, V., Huth-Kühne, A., Giangrande, P. (2020). International recommendations on the diagnosis and treatment of acquired hemophilia A *Haematologica* *105*,1791-1801. DOI: 10.3324/haematol.2019.230771

Tiede, A., Kemkes-Matthes, B., Knöbl, P. (2021). Should Efficizumab Be Used in Patients with Acquired Hemophilia A? *J Thromb Haemost* *19*,637-644. DOI: 10.1111/jth.15208

Tiede, A., Zieger, B., Lisman, T. (2021). Acquired bleeding disorders *Haemophilia* *27*,5-13. DOI: 10.1111/hae.14033

Weissing, E.M., Basilio-Queiros, D., Metzger, J., Bieling, L.M., Ganser, A. (2020). Proteomics for hematopoietic stem cell transplantation *Expert Rev Proteomics* *17*,201-206. DOI: 10.1080/14789450.2020.1748501

Letter

Fiedler, W., Chromik, J., Amberg, S., Kebenko, M., Thol, F., Schlipfenbacher, V., Christine Wilke, A., Modemann, F., Janning, M., Serve, H., Ganser, A., Bokemeyer, C., Theile, S., Deppermann, U., Kranich, A.L., Heuser, M. (2020). A Phase II study of selinexor plus cytarabine and idarubicin in patients with relapsed/refractory acute myeloid leukaemia *Br J Haematol* *190*,e169-e173. DOI: 10.1111/bjh.16804

Gupta, C., Kaulfuss, S., Görlich, K., Othman, B., Chaturvedi, A., Heuser, M. (2020). Combination treatment of an IDH1 inhibitor with chemotherapy in IDH1 mutant acute myeloid leukemia *Ann Hematol* *99*,1415-1417. DOI: 10.1007/s00277-020-04001-w

Ivanyi, P., Grüllich, C., Kroeger, N., Gauler, T., Johannsen, M., Bedke, J., Grünwald, V., Interdisciplinary working group on renal tumors (IAG-N) of the German Cancer Society (DKG). (2020). Systemic treatment of advanced/metastatic renal cell carcinoma in the context of SARS-CoV-2 pandemic: recommendations from the interdisciplinary working group for renal tumors (IAG-N) *J Cancer Res Clin Oncol* *146*,3075-3078. DOI: 10.1007/s00432-020-03341-4

Meyer, B.C., Hinrichs, J.B., Ivanyi, P., Ehrlich, S., Greer, M., Hoepfer, M.M., Busch, M. (2020). Extracorporeal portosystemic shunt in secondary Budd-Chiari syndrome *J Hepatol* 73,974-976. DOI: 10.1016/j.jhep.2020.05.038

Shahswar, R., Beutel, G., Gabdoulline, R., Koenecke, C., Markel, D., Eder, M., Stadler, M., Göhring, G., Schlegelberger, B., Trummer, A., Krauter, J., Thol, F., Heuser, M. (2021). Risk of tumor lysis syndrome in patients with acute myeloid leukemia treated with venetoclax-containing regimens without dose ramp-up *Ann Hematol* 100,595-599. DOI: 10.1007/s00277-020-04181-5

Tiede, A., Wahler, S. (2021). The rising incidence of acquired haemophilia A in Germany *Haemophilia* 27,e466-e468. DOI: 10.1111/hae.14149

Case reports

Schünemann, C., Göhring, G., Behrens, Y.L., Kreipe, H.H., Ganser, A., Thol, F. (2020). Histiocytic sarcoma progressing from follicular lymphoma and mimicking acquired hemophagocytic lymphohistiocytosis *Ann Hematol* 99,2441-2443. DOI: 10.1007/s00277-020-04190-4

Editorials

Beksac, M., Kröger, N., Byrne, J.L., Ganser, A., Yegin, Z.A., Schönland, S. (2021). Allogeneic hematopoietic cell transplantation (allo-HCT) outcomes in myeloma patients on renal replacement therapy: a report from the Chronic Malignancy Working Party (CMWP) of the European Society of Blood and Marrow Transplantation (EBMT) *Bone Marrow Transplant* 56,529-531. DOI: 10.1038/s41409-020-01010-1

Abstracts

Ahrens, M., Escudier, B., Boleti, E., Grimm, M., Gross-Goupil, M., Barthelemy, P., Gravis, G., Bedke, J., Ivanyi, P., Panic, A., Zschaebitz, S., Negrier, S., Mellado, B., Biel, A., Waddell, T., Maroto, P., Retz, M., Boegemann, M., Hartmann, A., Bergmann, L. (2020). A randomized phase II study of nivolumab plus ipilimumab versus standard of care in previously untreated and advanced non-clear cell renal cell carcinoma (SUNIFORECAST). In: *J Clin Oncol* 38(15 Suppl.), 2020, Abstr TPS5103. American Society of Clinical Oncology, 2020.

Brunotte, S., Kappler, P., Ivanyi, P., Morgan, M., von Klot, C., Reuter, C. (2020). Role of free testosterone serum levels during salvage chemotherapy with Carboplatin plus weekly Docetaxel in patients with Docetaxel-refractory, metastatic castration-resistant prostate cancer (mCRPC). In: *Oncol Res Treat* 2020;43(suppl 1), S. 82, Abstr. 720. 34. Deutscher Krebskongress (DKK), Informativ. innovativ. integrativ. Optimale Versorgung für alle, Berlin, Februar 2020.

Bullinger, L., EliceGUI, J.M., Sträng, E., Gastone, C., Heckman, C.A., Casanoves, A.H., Versluis, J., Gerstung, M., Abáigar, M., Hernandez-Sanchez Alberto, Jamilis, L., Melchor, R.A., Valk, P.J., Metzeler, K.H., Ayala, R., Lopez, J.M., Dombret, H., Montesinos, P., Sierra, J., Preudomme, C., Damm, F., Mills, K.I., Mayer, J., Thiede, C., Voso, M.T., Amadori, S., Sanz, G.F., Calado, F., Dohner, K., Gaidzik, V.I., Heuser, M., Haferlach, T., Sobas, M., Turki, A.T., Reinhardt, D., Medina, R., Speybroeck, M.v., Schulze-Rath, R., Rivas, J.M.H., Huntly, B.J.P., Döhner, H., Ossenkoppele, G.J. (2020). Harmony Alliance Provides Novel Insights into Acute Myeloid Leukemia Based on a Pan-European NGS Data Collection. Abstract No.: 1077. 62nd ASH Annual Meeting and Exposition. 5.-8.12.2020.

Cors, M., Rieke-Hoch, M., Erschow, S., Pietzsch, S., Scherr, M., Hilfiker-Kleiner, D. (2020). Analysis of unconventional motor protein myosin 5b and its impacts on cardiac function, In: *Clin Res Cardiol* 109, Suppl 1, April 2020, Abstr. 1444 86. Jahrestagung und Herztage der DGK, 14.- 17. Oktober 2020, Berlin.

Dolnik, A., Jahn, N., Sträng, E., Cocciardi, S., Rücker, F.G., Panina, E., Blätte, T.J., Herzig, J.K., Corbacioglu, A., Weber, D., Schrade, A., Gaidzik, V.I., Skambraks, S., Götze, K.S., Luebbert, M., Fiedler, W., Schroeder, T., Hahn, C., Thol, F., Heuser, M., Ganser, A., Paschka, P., Döhner, H., Döhner, K., Bullinger, L. (2020). Mutational Landscape of Relapsed Core-Binding Factor Acute Myeloid Leukemia (CBF-AML). In: *Blood*. 2020;136(Suppl.1)S.42. 617. Acute Myeloid Leukemia: Biology, Cytogenetics, and Molecular Markers in Diagnosis and Prognosis | November 5, 2020.

Eggers, H., Grünwald, V., Rudolph, L., Tiemann, M.L., Reuter, C., Ganser, A., Ivanyi, P. (2020). Survival improvement in metastatic renal cell carcinoma (mRCC) patients over time: Do elderly patients participate? *Oncol Res Treat* 2020;43(suppl 1), S. 76, Abstr. 335. 34. Deutscher Krebskongress (DKK), Informativ. innovativ. integrativ. Optimale Versorgung für alle. Berlin, Februar 2020.

Eggers, H., Schuenemann, C., Grünwald, V., Rudolph, L., Tiemann, M., Reuter, C.W., Ganser, A., Ivanyi, P. (2020). Survival in metastatic renal cell carcinoma (mRCC) patients over two decades: Does age matter? In: *J Clin Oncol* 38(15 Suppl.) 2020 Abstr e17103. American Society of Clinical Oncology, 2020.

Eggers, H.H., Grünwald, V., Rudolph, L., Tiemann, M., Reuter, C., Ganser, A., Ivanyi, P. (2020). Survival improvement in metastatic renal cell carcinoma (mRCC) patients over time: Do elderly patients participate? Poster 335. In: *Oncol Res Treat* 43(Suppl. 1)VII-265 (2020). 34. Deutscher Krebskongress: Informativ. Innovativ. Integrativ. Optimale Versorgung für alle. Berlin, 19.-22. Febr. 2020.

Eggers, H.H., Schuenemann, C., Grünwald, V., Rudolph, L., Tiemann, M., Reuter, C., Ganser, A., Ivanyi, P. (2020). Survival in metastatic renal cell carcinoma (mRCC) patients over two decades: Does age matter? In: *Journal of clinical oncology*, 38 (15, Suppl., Abstr. e17103). 2020. American Society of Clinical Oncology, 2020.

- Falkenhorst, J., Hamacher, R., Reichardt, P., Ivanyi, P., Kasper, B., Hohenberger, P., Hermes, B., Kostbade, K., Pink, D., Sülberg, H., Metzenmacher, M., Crysandt, M., Bauer, S. (2020). Lower-dosing ponatinib in pre-treated GIST: Results of the POETIG phase II trial. In: *J Clin Oncol* 38(15 Suppl.): 2020 (Abstr 11536). American Society of Clinical Oncology, 2020.
- Frank, D., Jayavelu, A.K., Wei, L., Al-Matary, Y.S., Patnana, P.K., Nimmagadda, S.C., Heuser, M., Thol, F., Gohring, G., Thomale, J., Pfau, A., Rad, R., Röllig, C., Stoelzel, F., Dill, C., Altmann, H., Kunadt, D., Schiemann, C., Mikesch, J., Arteaga, M.F., Berdel, W.E., Lenz, G., Khandanpour, C. (2020). Impeding DNA Repair Offers a Novel Possibility for Personalized Therapy in AML Patients, Who Are Carrier of the Growth Factor Independence 1 Variant "GF11-36N". Abstr.: No 1048. 62nd ASH Annual Meeting and Exposition. 2020.
- Gaidzik, V.I., Mayr-Benedikter, V., Weber, D., Schrade, A., Krauter, J., Walz, J.S., Hebart, H., Schultheis, B.S., Basara, N., Diel, E., Kapp-Schwörer, S., Feuring-Buske, M., Thol, F., Heuser, M., Faderl, S., Wagner, A.J., Saadati, M., Krzykalla, J., Benner, A., Ganser, A., Döhner, K., Paschka, P., Döhner, H. (2020). Higher Dose of CPX-351 Is Associated with Prolonged Hematologic Recovery: Results from an Interim Safety Analysis of the Randomized, Phase III AMLSG 30-18 Trial. In: *Blood*. 2020;136(Supplement 1):46-47. 616. Acute Myeloid Leukemia: Novel Therapy, excluding Transplantation | November 5, 2020.
- Grünwald, V., Grüllich, C., Ivanyi, P., Wirth, M., Staib, P., Schostak, M., Dargatz, P., Müller, L., Metz, M., Bergmann, L., Steiner, T., Welslau, M., Lorch, A., Rafiyan, M., Hellmis, E., Hinke, A., Meiler, J., Kretz, T., Loidl, W.C., Flörcken, A. (2020). A randomized phase II trial comparing switch to nivolumab with TKI continuation after 12 weeks of TKI induction therapy in metastatic renal cell carcinoma patients (NIVOSWITCH). In: *J Clin Oncol* 38, 2020 (suppl 6; abstr 678). American Society of Clinical Oncology 2020.
- Grünwald, V., Grüllich, C., Ivanyi, P., Wirth, M., Staib, P., Schostak, M., Dargatz, P., Müller, L., Metz, M., Bergmann, L., Steiner, T., Welslau, M., Lorch, A., Schütt, P., Rafiyan, m., Hellmis, E., Hinke, A., Mänz, M., Meiler, J., Kretz, T., Loidl, W., Flörcken, A. (2020). TKI induction followed by a randomized comparison between nivolumab or TKI continuation in renal cell carcinoma (NIVOSWITCH). In: *Oncol Res Treat* 2020;43(suppl 1), S. 78, Abstr. 463. 34. Deutscher Krebskongress (DKK), Informativ. innovativ. integrativ. Optimale Versorgung für alle. Berlin, Februar 2020.
- Grünwald, V., Ivanyi, P., Hermes, B., Tuchscherer, A., Pink, D., Bauer, S., Lindner, L., Augustin, M., Block, A., Richter, S., Reichardt, P., Crysandt, M., Hipper, A., Fischer, M. (2020). A randomized phase II study of durvalumab and tremelimumab compared to doxorubicin in patients with advanced or metastatic soft tissue sarcoma (MEDISARC, AIO-STS-0415). In: *Oncol Res Treat* 2020;43(suppl 1), S. 173, Abstr. 673. 34. Deutscher Krebskongress (DKK), Informativ. innovativ. integrativ. Optimale Versorgung für alle. Berlin, Februar 2020.
- Grünwald, V., Ivanyi, P., Jacobasch, L., Zahn, M., Hübner, A., Fischer von Weikersthal, L., Augustin, M., Eberhardt, B., Mänz, M. (2020). A Phase III Study Testing the Role of Proactive Coaching on Patient Reported Outcome in Advanced or Metastatic Renal Cell Carcinoma Treated with Sunitinib or a Combination of Axitinib + Checkpoint Inhibitor (CPI) in First Line Therapy (Prepare). In: *Oncol Res Treat* 2020;43(suppl 1): S. 224, Abstr. 958. 34. Deutscher Krebskongress (DKK) : Informativ. innovativ. integrativ. Optimale Versorgung für alle. Berlin, Februar 2020.
- Grünwald, Viktor, Hahn, Dennis, Alt, J., Hasenkamp, J., Klinghammer, K., Schuch, G., Hapke, G., Ivanyi, P. (2020). A randomized phase II study on the OPTimization of IMMunotherapy in squamous carcinoma of the head and neck (SCCHN) – OPTIM (AIO-KHT-0117). *Oncol Res Treat* 2020; 43 (Suppl. 1), S. 100; Abstr. 632. 34. Deutscher Krebskongress (DKK), Informativ. innovativ. integrativ. Optimale Versorgung für alle. Berlin, Februar 2020.
- Heitmann, J.S., Dörfe, I.D., Kayser, S., Döhner, K., Heuser, M., Thol, F., Kapp-Schwörer, S., Bethge, W., Große-Hovest, L., Steiner, M., Märklin, M., Walz, J., Schlenk, R., Jung, G., Salih, H. (2020). Phase I trial of the Fc-optimized FLT3 antibody FLYSYN in acute myeloid leukemia (AML) patients with measurable residual disease. In: *Oncology Research and Treatment*, 43(Suppl.4).2020, S. 31, Abstr. No 274. Virtuelle Jahrestagung der Deutschen, Österreichischen und Schweizerischen Gesellschaften für Hämatologie und Medizinische Onkologie, 09.–11. Oktober 2020.
- Heitmann, J.S., Dörfel, D., Kayser, S., Heuser, M., Thol, F., Kapp-Schwörer, S., Bethge, W., Grosse-Hovest, L., Steiner, M., Märklin, M., Walz, J.S., Schlenk, R.F., Jung, G., Salih, H.R. (2020). First-in-Human Phase I Dose Escalation and Expansion Study Evaluating the Fc Optimized FLT3 Antibody Flysyn in Acute Myeloid Leukemia Patients with Minimal Residual Disease. In: *Blood*. 2020;136(Supplement 1):8-9. 616. Acute Myeloid Leukemia: Novel Therapy, excluding Transplantation | November 5, 2020.
- Hensen, B., Strassmann, D., Grünwald, V., Stange, K., Eggers, H., Länger, F., Panzica, M., Zardo, P., Christiansen, H., Reuter, C., Wacker, F.K., Ganser, A., Ivanyi, P. (2020). Impact of sarcopenia (SMI(+)) in patients (pts) with advanced or metastatic soft tissue sarcoma (a/mSTS) during multimodal therapy (MT) as risk parameter. In: *Oncol Res Treat* 2020;43(suppl 1), S. 174, Abstr. 782. 34. Deutscher Krebskongress (DKK), Informativ. innovativ. integrativ. Optimale Versorgung für alle. Berlin, Februar 2020.
- Hensen, B., Strassmann, D., Grünwald, V., Stange, K., Eggers, H., Langer, F., Panzica, M., Zardo, P., Christiansen, H., Wacker, F.K., Ganser, A., Ivanyi, P. (2020). Impact of Sarcopenia (SMI(+)) in patients (PTS) with advanced of metastatic soft tissue sarcoma (A/MSTS) during multimodal therapy (MT) as risk parameter In: *Oncol Res Treat* 2020;43(suppl 1):S. 174, Abstr. 782. 34. Deutscher Krebskongress informativ. innovativ. integrativ. Optimale Versorgung für alle. Berlin, 19.-22. Februar 2020: Abstracts.

Herzig, J.K., Rücker, F.G., Schmalbrock, L.K., Blätte, T.J., Weber, D., Kapp-Schwoerer, S., Corbacioglu, A., Gaidzik, V.I., Paschka, P., Panina, E., Jahn, N., Schrade, A., Theis, F., Skambraks, S., Fiedler, W., Salih, H.R., Wulf, G., Salwender, H., Schroeder, T., Götz, K.S., Kindler, T., Lübbert, M., Schlenk, R.F., Thol, F., Heuser, M., Gander, A., Döhner, H., Bullinger, L., Döhner, K. (2020). Next-Generation Sequencing (NGS)-Based Measurable Residual Disease (MRD) Monitoring in Acute Myeloid Leukemia with FLT3 Internal Tandem Duplication (FLT3-ITD+ AML) Treated with Additional Midostaurin. In: *Blood*. 2020;136(Supplement 1):21-22. European Hematology Association, 2020, Abstract: EP456.

Heuser, M. (2020). Current and Future Role of MRD for Allo-HSCT in AML patients. ICBMT Meeting 2020: 2nd International Conference on BioMedical Technology, 19.02.-22.02.2020, Hanoi, Vietnam.

Heuser, M. (2020). Measurable residual disease monitoring by NGS. 82nd Annual Meeting of the Japanese Society of Hematology (JSH2020).

Heuser, M., Palmisiano, N., Mantzaris, I., Mims, A., DiNardo, C., Silverman, L.R., Wang, E.S., Fiedler, W., Baldus, C., Schwind, S., Pardee, T., Perl, A., Cai, C., Kaulfuss, S., Lagkadinou, E., Rentsch, C., Wagner, M., Wilkinson, G., Wu, B., Jeffers, M., Genvresse, I., Krämer, A. (2020). Safety and efficacy of mutant IDH1 inhibitor BAY1436032 in subjects with IDH1-mutated AML - Abstract Book: In: *HemaSphere*. 2020;4(S1):S 253. Abstract: EP595. 25th Congress of the European Hematology Association Virtual Edition, 2020.

Heuser, M., Robak, T., Montesinos, P., Leber, B., Fiedler, W., Pollyea, D.A., Brown, A.M., O'Connell, A., Ma, W.W., Chan, G., Cortes, J.E. (2020). 21 Glasdegib plus low-dose cytarabine in acute myeloid leukemia (AML) or myelodysplastic syndrome (MDS): BRIGHT AML 1003 final report and 4-year overall survival follow-up - Abstractband. In: *Oncology Research and Treatment*. 2020;43(Suppl 4)(4): S. 39. Jahrestagung der Deutschen, Österreichischen und Schweizerischen Gesellschaften für Hämatologie und Medizinische Onkologie, 09.–11. Oktober 2020.

Heuser, M., Robak, T., Montesinos, P., Leber, B., Fiedler, W.M., Pollyea, D.A., Brown, A.M., O'Connell, A., Ma, W., Chan, G., Cortes, J.E. (2020). Glasdegib (GLAS) plus low-dose cytarabine (LDAC) in AML or MDS: BRIGHT AML 1003 final report and four-year overall survival (OS) follow-up - Abstract Book: In: *HemaSphere*. 2020;4(S1): S. 225. Abstr.: EP 545. 25th Congress of the European Hematology Association Virtual Edition, 2020.

Heuser, M., Robak, T., Montesinos, P., Leber, B., Fiedler, W.M., Pollyea, D.A., Brown, A., O'Connell, A., Ma, W., Chan, G., Cortes, J.E. (2020). AML-043 Glasdegib Plus Low-Dose Cytarabine in Acute Myeloid Leukemia or Myelodysplastic Syndrome: BRIGHT AML 1003 Final Report and 4-Year Overall Survival Follow-Up - In: *Clinical Lymphoma, Myeloma & Leukemia Supplement*. 2020; Vol. 20(Suppl.1):S. 176. Proceedings of the Society of Hematologic Oncology 2020 Annual Meeting.

Heuser, M., Robak, T., Montesinos, P., Leber, B., Fiedler, W.M., Pollyea, D.A., Brown, A., O'Connell, A., Ma, W., Chan, G., Cortes, J.E. (2020). Glasdegib (GLAS) plus low-dose cytarabine (LDAC) in AML or MDS: BRIGHT AML 1003 final report and four-year overall survival (OS) follow-up. In: *Journal of Clinical Oncology*. 2020;38(15, Suppl):Abstr. 7509. ASCO Annual Meeting I, 2020.

Kalbarczyk, M., Slabik, C., Zhang, X., Li, L., Stripecke, R. (2020).

Therapeutic efficacy of CAR-T cells targeting gp350 in a humanized mouse model of Epstein Barr Virus-induced lymphoproliferation and prospects for clinical trials, In: *Molecular Therapy*, Vol 28(4S1), S. 42, Abstract No. 82. 23rd Annual Meeting, American Society of Cell and Gene Therapy, virtual oral presentation on 12.05.2020.

Kappler, P., Morgan, M., Ivanyi, P., Ganser, A., Reuter, C. (2020). Prognostic Role of Docetaxel-Induced Reduction of Free Testosterone Serum Levels in Metastatic Prostate Cancer Patients. In: *Oncol Res Treat* 2020;43(suppl 1), S. 76, Abstr. 337.. 34. Deutscher Krebskongress (DKK), Informativ. innovativ. integrativ. Optimale Versorgung für alle. Berlin, Februar 2020.

Kapp-Schwoerer, S., Corbacioglu, A., Gaidzik, V.I., Paschke, P., Krönke, J., Theis, F., Rücker, F.G., Teleanu, M., Panina, E., Jahn, N., Herzig, J.K., Kubanek, L., Schrade, A., Göhring, G., Fiedler, W., Kindler, T., Schroeder, T., Mayer, K.T., Lübbert, M., Wattad, M., Götz, K.S., Horst, H.A., Koller, E., Wulf, G., Schleicher, J., Bentz, M., Krauter, J., Bullinger, L., Krzykalla, J., Benner, A., Schlenk, R.F., Thol, F., Heuser, M., Ganser, A., Döhner, H., Döhner, K. (2020).

Significant Effect of Gemtuzumab Ozogamicin on Measurable Residual Disease and Risk of Relapse in Patients with Newly Diagnosed NPM1 mutated AML- results from the AMLSG 09-09 Trial -Abstract Book: In: *HemaSphere*. 2020;4(S1):S. 177, Abstr. No EP442. 25th Congress of the European Hematology Association Virtual Edition, 2020.

Kattih, B., Shirvani, A., Klement, P., Garrido, A.M., Gabdoulline, R., Liebich, A., Brandes, M., Chaturvedi, A., Seeger, T., Thol, F., Göhring, G., Schlegelberger, B., Geffers, R., John, D., Bavendiek, U., Bauersachs, J., Ganser, A., Heineke, J., Heuser, M. (2020). IDH Mutations Are Associated with an Increased Risk of Coronary Artery Disease and Cardiotoxicity in Patients with Established AML. In: *Blood*. 2020;136(Supplement 1):32-33. 613. Acute Myeloid Leukemia: Clinical Studies | November 5, 2020.

Kirchhoff, H., Rieke-Hoch, M., Wohlan, K., Pietzsch, S., Erschow, S., Ganser, A., Eder, M., Scherr, M., Hilfiker-Kleiner, D. (2020). Chemotherapy-free combination of venetoclax, dasatinib and dexamethasone cures BCR-ABL+ acute lymphoblastic leukemia and prevents

leukemia-induced cardiac damage, In: Clin Res Cardiol 109, Suppl. 1, April 2020, Abstr. P831. 86. Jahrestagung der DGK, 15. – 18. April 2020, Mannheim.

Länger F, Eggers, Henrik, Gutzmer, Ralf, Satzger, I., von Falck, C., Ganser, A., Kreipe, H.H., Grünwald, V., Ivanyi, P. (2020). NTRK Fusion-Tumors in Adult Cancer Patients – Single Center Report on Screening and Treatment. *Oncol Res Treat* 2020;43(suppl 1), S. 42, Abstr. 563. 34. Deutscher Krebskongress (DKK), Informativ. innovativ. integrativ. Optimale Versorgung für alle. Berlin, Februar 2020.

Länger, F., Eggers, H.H., Gutzmer, R., Satzger, I., Von Falck, C., Ganser, A., Lehmann, U., Kreipe, H.H., Grünwald, V., Ivanyi, P. (2020). NTRK Fusion-Tumors in Adult Cancer Patients -Single Center Report on Screening and Treatment. Poster 563. In: *Oncol Res Treat* 43(Suppl.1), VII-265 (2020). 34. Deutscher Krebskongress, Informativ. Innovativ. Integrativ. Optimale Versorgung für alle. Berlin, 19.-22. Febr. 2020.

Loges, S., Heuser, M., Chromik, J., Vigil, C.E., Paschka, P., Re, F., Di Renzo, N., Lemoli, R.M., Mattei, D.G., Ben-Batalla, I., Hellesoy, M., Lorens, K., Birkett, J., McPherson, S., Nautiyal, J., Micklem, D., Gabra, H., Lorens, J.B., Fiedler, W., Alvarado, Y., Gjertsen, B.T. (2020). The Combination of AXL Inhibitor Bemcentinib and Low Dose Cytarabine Is Well Tolerated and Efficacious in Elderly Relapsed AML Patients: Update from the Ongoing BGBC003 Phase II Trial (NCT02488408). In: *Blood*. 2020;136(Supplement 1):14-14. 613. Acute Myeloid Leukemia: Clinical Studies | November 5, 2020.

Lübbert, M., Grishina, O., Schmoor, C., Schlenk, R.F., Jost, E., Crysandt, M., Heuser, M., Thol, F., Salih, H.R., Schittenhelm, M.M., Germing, U., Kuendgen, A., Götze, K., Lindemann, H., Müller-Tidow, C., Heil, G., Scholl, S., Bug, G., Schwänen, C., Giagounidis, A., Neubauer, A., Krauter, J., Brugger, W., Wit, M.d., Wäsch, R., Becker, H., May, A.M., Duyster, J., Döhner, K., Ganser, A., Hackanson, B., Team HD0BotDS. (2020).

All-Trans Retinoic Acid improves survival in elderly AML patients by delaying decitabine resistance development: results of a randomized trial (Decider Study) - Abstract Book: . In: *HemaSphere*. 2020;4(S1):S. 20 Abstr. No. S138 25th Congress of the European Hematology Association Virtual Edition, 2020.

Luebbert, M., Grishina, O., Schmoor, C., Crysandt, M., Jost, E., Thol, F., Heuser, M., Götze, K.S., Schlenk, R.F., Döhner, K., Salih, H.R., Schittenhelm, M.M., Heil, G., Schwaenen, C., Mueller-Tidow, C., Brugger, W., Kündgen, A., Germing, U., Wit, M.d., Kremers, S., Giagounidis, A., Scholl, S., Neubauer, A., Krauter, J., Bug, G., Wäsch, R., Becker, H., Rummelt, C., May, A.M., Duyster, J., Ganser, A., Hackanson, B., Döhner, H. (2020). Activity of Decitabine (DAC) Combined with All-Trans Retinoic Acid (ATRA) in Oligoblastic AML: Subgroup Analysis of a Randomized 2x2 Phase II Trial. *Blood*. 2020;136(Supplement 1):9-10. 613. Acute Myeloid Leukemia: Clinical Studies | November 5, 2020.

Lueck, C., Beutel, G., Panagiota, V., Dammann, E., Markel, D., Beck, M., Tayeb, S.A., Schwarzer, A., Kharazipour, D., Stadler, M., Ganser, A., Eder, M. (2020). Incidence and clinical impact of atrial fibrillation diagnosed during hospital stay for allogeneic stem cell transplantation. In: *Bone Marrow Transplant* 55, P 533, S. 584 (2020). The 46th Annual Meeting of the European Society for Blood and Marrow Transplantation: Physicians Poster Session (P001-P706). 29.08-01.09.2020.

Müller-Huesmann, H., Bedke, J., Grünwald, V., Belz, H., Bögemann, M., Herber, M., Von der Heyde, E., Ivanyi, P., Kretschmar, A., Schostak, M., Schultze-Seemann, W., Grimm, M., NORA-Studygroup. (2020). NORA: real world evidence in renal cell carcinoma; a national, prospective, non-interventional study in patients with advanced/metastatic renal cell carcinoma starting 1st line nivolumab and ipilimumab combination therapy or nivolumab monotherapy after prior therapy. *Oncol Res Treat* 2020; 43(Suppl.1), S. 75, Abstr. 324. 34. Deutscher Krebskongress (DKK), Informativ. innovativ. integrativ. Optimale Versorgung für alle. Berlin, Februar 2020.

Papayannidis, C., Wang, E.S., Heuser, M., Sekeres, M.A., Candoni, A., Merchant, A., Brown, A., O'Connell, A., Ma, W., Chan, G., Cortes, J.E. (2020). Effect of early blood counts on overall survival (OS) following glasdegib +LDAC in newly diagnosed AML: BRIGHT AML 1003 post hoc analysis. In: *J clin oncol*, 38 (15 Suppl.) Abstr. 7525. ASCO Annual Meeting I, 2020.

Papayannidis, C., Heuser, Michael, Robak, T., Montesinos, P., Leber, B., Fiedler, W.M., Pollyea, D.A., Brown, A., O'Connell, A., Ma, W., Chan, G., Cortes, J.E. (2020). Glasdegib (GLAS) plus low-dose cytarabine (LDAC) in AML or MDS: and four-year overall survival (OS) follow-up. 2020. In: *Journal of Clinical Oncology*, Vol 38(15 Suppl.) 2020. Abstract: 7509. BRIGHT AML 1003 final report 2020.

Paschka, P., Dombret, H., Thomas, X., Recher, C., Chantepie, S., Montesinos Fernandez, P., Acuña-Cruz, E., Vyas, P., Kreuzer, K., Heuser, M., Metzeler, K.H., Dennis, M., Quesnel, B., Hunault-Berger, M., Mohty, M., Pigneux, A., De Botton, S., Weber, D., Döhner, K., Milkovich, G., Reitan, J., MacDonald, S.C., Casso, D., Storm, M., Liu, H., Pigneux, A., Attar, E.C., Winkler, T., Döhner, H. (2020). Ivosidenib improves overall survival relative to standard therapies in relapsed or refractory mutant IDH1 AML: Results from matched comparisons to historical controls. In: *Blood*. 2020. 136(Suppl. 1) S. 18-19. 62nd Ash Annual Meeting. 903. Health Services Research-Malignant Conditions (Myeloid Disease), | Nov. 5, 2020.

Paschka, P., Dombret, H., Thomas, X., Recher, C., Chantepie, S., Montesinos Fernandez, P., Acuña-Cruz, E., Vyas, P., Kreuzer, K., Heuser, M., Metzeler, K.H., Dennis, M., Quesnel, B., Hunault-Berger, M., Mohty, M., Pigneux, A., De Botton, S., Weber, D., Döhner, K., Milkovich, G., Reitan, J., MacDonald, S.C., Casso, D., Storm, M., Liu, H., Kapsalis, S.M., Attar, E.C., Winkler, T., Döhner, H. (2020). EP540 Ivosidenib Improves Overall Survival Relative to Standard Therapies in Relapsed or Refractory Mutant IDH1 AML: Results from Matched Comparisons

to Historical Controls - Abstract Book . In: *HemaSphere*. 2020;4(S1):S. 221, Abstr. EP540. 25th Congress of the European Hematology Association Virtual Edition, 2020.

Paschka, P., Dombret, H., Thomas, X., Recher, C., Chantepie, S., Montesinos Fernandez, P., Acuña-Cruz, E., Vyas, P., Kreuzer, K., Heuser, M., Metzeler, K.H., Dennis, M., Quesnel, B., Hunault-Berger, M., Mohty, M., Pigneux, A., Botton, S.D., Weber, D., Storm, M., Döhner, H. (2020). Ivosidenib Improves Overall Survival Relative to Standard Therapies in Relapsed or Refractory Mutant IDH1 AML: Results from Matched Comparisons to Historical Controls - American Society of Clinical Oncology. (ASCO) Annual Meeting, May 29 – June 2, 2020, Chicago, IL. 2020.

Pink, D., Richter, A., Andreou, D., Richter, S., Flörcken, A., Deinzer, C., Kasper, B., Egerer, G., Ivanyi, P., Tuchscherer, A., Kessler, T., Schuler, M., Schmidt, C., Bahr, J., Ittermann, J., Reichardt, P. (2020). Which patients with pre-treated locally advanced or metastatic sarcoma benefit most from trabectedin treatment: First results of a retrospective study of the German Interdisciplinary Sarcoma Group (GISG-14 - ReTraSarc). In: *J Clin Oncol* 38(15 Suppl.) 2020, Abstr 11554). American Society of Clinical Oncology 2020.

Platzbecker, U., Germing, U., Götze, K., Mayer, K., Heuser, M., Thol, F., Fenaux, P., Komrokji, R.S., Laadem, A., Ito, R., Zhang, J., Ramperasad, A., Morison, J., Louis, C.U., Giagounidis, A. (2020). Assessment of dose-dependent response to luspatercept in patients (pts) with Lower-Risk Myelodysplastic Syndromes (LR-MDS) with Ring Sideroblasts (RS) in the phase 3 MEDALIST trial. In: *Oncology Research and Treatment*, 43(Suppl.4).2020, S. 171, Abstr. No 180 Virtuelle Jahrestagung der Deutschen, Österreichischen und Schweizerischen Gesellschaften für Hämatologie und Medizinische Onkologie, 09.–11. Oktober 2020. Rücker, F.G., Du, L., Blätte, T.J., Benner, A., Krzykalla, J., Gathmann, I., Voso, M.T., Amadori, S., Prior, T.W., Brandwein, J.M., Appelbaum, F.R., Medeiros, B.C., Tallman, M.S., Savoie, L., Sierra, J., Pallaud, C., Sanz, M.A., Jansen, J., Niederwieser, D., Fischer, T., Ehninger, G., Heuser, M., Ganser, A., Bullinger, L., Larson, R.A., Bloomfield, C.D., Stone, R.M., Döhner, H., Thiede, C., Dohner, K. (2020). Molecular Landscape and Prognostic Impact of FLT3 Internal Tandem Duplication Insertion Site in Acute Myeloid Leukemia (AML): Results from the Ratify Study (Alliance 10603) - Abstract Book: In: *HemaSphere*. 2020;4(S1):S. 148. 25th Congress of the European Hematology Association Virtual Edition, 2020.

Platzbecker, U., Giagounidis, A., Heuser, M., Götze, K., Thol, F., Fenaux, P. (2020). Longer-term RBC transfusion reduction in the phase 3 MEDALIST study of luspatercept in patients (pts) with Lower-Risk Myelodysplastic Syndromes (LR-MDS) with Ring Sideroblasts (RS) - Abstractband für die Virtuelle Jahrestagung der Deutschen, Österreichischen und Schweizerischen Gesellschaften für Hämatologie und Medizinische Onkologie, 09.–11. Oktober 2020: In: *Oncology Research and Treatment*. 2020;43(suppl 4)(4):S. 169, Abstr: 181 Jahrestagung der Deutschen, Österreichischen und Schweizerischen Gesellschaften für Hämatologie und Medizinische Onkologie, 09.–11. Oktober 2020.

Rücker, F.G., Du, L., Blätte, T.J., Benner, A., Krzykalla, J., Gathmann, I., Voso, M.T., Amadori, S., Prior, T.W., Brandwein, J.M., Appelbaum, F.R., Medeiros, B.C., Tallman, M.S., Savoie, L., Sierra, J., Pallaud, C., Sanz, M.A., Jansen, J., Niederwieser, D., Fischer, T., Ehninger, G., Heuser, M., Ganser, A., Bullinger, L., Larson, R.A., Bloomfield, C., Stone, R.M., Döhner, H., Thiede, C., Dohner, K. (2020). Molecular Landscape and Prognostic Impact of FLT3 Internal Tandem Duplication Insertion Site in Acute Myeloid Leukemia (AML): Results from the Ratify Study (Alliance 10603). Abstract No 391. 62nd ASH Annual Meeting and Exposition. 2020.

Seyda, M., Bogalle, E., Li, Z., Panagiota, V., Markel, D., Heuser, M., Ganser, A., Thol, F. (2020). Secondary blastic plasmacytoid dendritic cell neoplasm (BPDCN). A case report (Abstract). 2nd How to Diagnose and Treat: Acute Leukaemia, European School of Haematology, 30.06.-02.07.2020.

Shahswar, R., Beutel, G., Gabdoulline, R., Koenecke, C., Markel, D., Eder, M., Stadler, M., Gohring, G., Schlegelberger, B., Trummer, A., Krauter, J., Ganser, A., Thol, F., Heuser, M. (2020). Tumor lysis syndrome in patients with acute myeloid leukemia treated with venetoclax-containing regimens - Abstract Book: In: *HemaSphere*. 2020;4(S1): S. 280, Abstr. No EP647 25th Congress of the European Hematology Association Virtual Edition, 2020.

Shahswar, R., Beutel, G., Gabdoulline, R., Koenecke, C., Markel, D., Eder, M., Stadler, M., Gohring, G., Schlegelberger, B., Trummer, A., Krauter, J., Ganser, A., Thol, F., Heuser, M. (2020). *Tumor Lysis Syndrome in Patients with Acute Myeloid Leukemia Treated with Venetoclax-Containing Regimens*. Abstr. EP647. Conference: European Hematology Association. EHA annual meeting abstracts, June 2020.

Sinicin, E., Bartram, M., Heuser, M., Framme, C., Hufendiek, K. (2020). Bilateral-simultanes isoliertes Non-Hodgkin-Lymphom der Konjunktiva. In: *Ophthalmologie*. 2020;117(Suppl 2):S.85 Abstract No. 126. DOG, 2020.

Snarski, E., Stringer, J., Mikulska, M., Gil, L., Tidello, G., Bosman, P., Hoek, J., Karas, M., Zver, S., Lueck, C., Blijlevens, N., González, I., Ociepa-Wasilkowska, M., Górka, M., Sánchez-Ortega, I., Andersson, I., Yáñez, L., Amine Bekadja, M., Styczyński, J. (2020). Risk of Infectious Complications in Adult Patients After Allogeneic HSCT Depending on The Site of Central Venous Catheter Insertion - Multicentre Prospective Study. In: *Bone Marrow Transplant* 55, P 363, S.453 (2020). The 46th Annual Meeting of the European Society for Blood and Marrow Transplantation: Physicians Poster Session (P001-P706).

Stadler, M., Oberstaedt, V., Dammann, E., Hambach, L., Weissinger, E., Lueck, C., Beutel, G., Eder, M., Ganser, A. (2020). Gemtuzumab-ozogamicin for Bridging to Transplant in Refractory/relapsed CD33 Positive Acute Leukemia- is it Worthwhile? In: *Bone Marrow Transplant*

55, P 034, S. 206 (2020). The 46th Annual Meeting of the European Society for Blood and Marrow Transplantation: Physicians Poster Session (P001-P706).

Stelling, E., Ricke-Hoch, M., Bergmann, A.K., Erschow, S., Scherr, M., Hoffmann, S., Balligand, J., Hilfiker-Kleiner, D. (2020). In failure prone hearts, epigenetic priming of cardiac progenitor cells shifts from endothelial to adipocyte differentiation: Role of a novel network involving STAT3, tenascin C, prostaglandin D2 and Zfp423. In: *Clin Res Cardiol* 109, Suppl. 1, April 2020, Abstr. V 578. 86. Jahrestagung und Herztage 2020 der DGK, 14.- 17. Oktober 2020, Berlin.

Takeda, J., Yoshida, K., Yoda, A., Shih, L., Nannya, Y., Ochi, Y., Kon, A., Chiba, K., Shiraishi, Y., Shiozawa, Y., Yoshizato, T., Kerr, C.M., Nagata, Y., Kitano, T., Hangaishi, A., Ishiyama, K., Tsurumi, H., Miyazaki, Y., Hiramoto, N., Ishikawa, T., Nakagawa, M.M., Takaori-Kondo, A., Chiba, S., Nakazawa, H., Kuo, M., Kataoka, K., Saiki, R., Tanaka, H., Usuki, K., Miyawaki, S., Miyano, S., Maciejewski, J.P., Ganser, A., Heuser, M., Thol, F., Makishima, H., Ogawa, S. (2020). Genotype-Phenotype Relationships and Therapeutic Targets in Acute Erythroid Leukemia. In: *Blood*. 2020;136(Supplement 1):17-18. American Society of Hematology, 62nd Annual Meeting and Exposition, Oral and Poster Abstracts, Session: 602, Dec 5-8.2020.

Trappe, R.U., Koenecke, C., Dreyling, M.H., Pott, C., Duehrsen, U., Meidenbauer, N., Hahn, D., Heuser, M., Schmidt, C., Ritgen, M., Siebert, R., Oschlies, I., Anagnostopoulos, I., Zimmermann, H., DPTLDSG, GLA. (2020). Treatment stratification in B-cell PTLD after solid organ transplantation (SOT) by international prognostic index (IPI) and response to rituximab: Interim results from the PTLD-2 trial. In: *Journal of Clinical Oncology*. 2020;38(15_suppl):Abstr. 8045. American Society of Clinical Oncology 2020.

Wang, E.S., Heuser, M., Sekeres, M.A., Papayannidis, C., Candoni, A., Merchant, A., Brown, A., O'Connell, A., Ma, W., Chan, G., Cortes, J.E. (2020). Effect of early blood counts on Response and Overall Survival following Glasdegib Plus LDAC in Newly Diagnosed AML: BRIGHT AML 1003 Post Hoc analysis In: *Clinical Lymphoma, Myeloma & Leukemia*. 2020;20(Suppl.1), S. 184, Abstr. AML 140. Proceedings of the Society of Hematologic Oncology 2020 Annual Meeting.

Wang, E.S., Heuser, M., Sekeres, M.A., Papayannidis, C., Candoni, A., Merchant, A., Brown, A., O'Connell, A., Ma, W., Chan, G., Cortes, J.E. (2020). Effect of early blood counts on overall survival (OS) following glasdegib + LDAC in newly diagnosed AML: BRIGHT AML 1003 post hoc analysis. In: *Journal of Clinical Oncology*. 2020;38(15_suppl): Abstr. 7525. ASCO Annual Meeting I, 2020.

Wang, E.S., Montesinos, P., Minden, M.D., Lee, J., Heuser, M., Naoe, T., Chou, W., Liu, S., Wu, R., Philipose, N., Rich, E.S., Tiu, R.V. (2020). 27 Phase 3, Multicenter, Open-Label Study of Gilteritinib, Gilteritinib Plus Azacitidine, or Azacitidine Alone in Newly Diagnosed FLT3 Mutated (FLT3mut+) Acute Myeloid Leukemia (AML) Patients Ineligible for Intensive Induction Chemotherapy. 62nd ASH Annual Meeting and Exposition. 5.-8.8.2020.

Zimmermann, H., Koenecke, C., Dreyling, M.H., Pott, C., Duehrsen, U., Meidenbauer, N., Hahn, D., Heuser, M., Schmidt, C., Ritgen, M., Siebert, R., Oschlies, I., Anagnostopoulos, I., Trappe, R.U. (2020). Treatment stratification in B-cell PTLD after solid organ transplantation (SOT) by international prognostic index (IPI) and response to rituximab: Interim results from the PTLD-2 trial - Abstract Book . In: *HemSphere*. 2020;4(S1):S. 567. Abstr. No. EP1214. 25th Congress of the European Hematology Association Virtual Edition, 2020.

Promotionen

Basílio Queirós, D.T. (2019). Reconstitution of innate immunity in the context of complications after hematopoietic stem cell transplantation. Dissertation, Medizinische Hochschule Hannover, 2020

Gupta, C. (2020). Mechanistic and therapeutic insights into IDH1 mutant acute myeloid leukemia. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Mintzas, K.M. (2020). Genetic dependencies in acute myeloid leukemia revealed by a functional in vivo screening. Dissertation, Medizinische Hochschule Hannover, 2020

Mohanty, S. (2020). Pathophysiology and treatment of NUP98-NSD1 acute myeloid leukemia. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Perlov, A. (2020). Study of the effects of miRNA-mediated BCL11A knockdown and gamma-globin induction in sickle cell anemia evaluation of a lentiviral system with tetracycline-inducible, dosage-dependent transgene expression Dissertation, Medizinische Hochschule Hannover, 2020

Schoenherr, C. (2020). Aberrant protein expression upon stable RUNX1-ETO silencing in t(8;21) positive cell lines. Dissertation, Medizinische Hochschule Hannover, 2020

Schünemann, C.R. (2019). The E3 ligase itch is a novel positive regulator of mesenchymal stem cells Dissertation, Medizinische Hochschule Hannover, 2020

Selich, A. (2020). Lentiviral genetic barcoding for functional characterization of human umbilical cord derived mesenchymal stromal cells
Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Sellmann, L. (2018). Hochsensitive Chimärismusanalyse zur frühzeitigen Detektion von Leukämie rezidiven und Therapiesteuerung nach allogener Stammzelltransplantation
Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Theobald, S.J. (2019). Modeling human cytomegalovirus infections in humanized mice for preclinical development of novel cellular and antibody-based therapies.
Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Varanasi, P.R. (2016). Immune response against human cytomegalovirus in the context of hematopoietic stem cell transplantation (HSCT)
Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Winckler, L. (2020). Entwicklung einer Screeningmethode zur funktionellen Charakterisierung mutierter Gene bei chronischer myelomnozytärer Leukämie
Dissertation, Medizinische Hochschule Hannover, 2020

Institut Experimentelle Hämatologie – 6960

Originalpublikationen

Ackermann, M., Haake, K., Kempf, H., Kaschutnig, P., Weiss, A.C., Nguyen, A.H.H., Abeln, M., Merkert, S., Kühnel, M.P., Hartmann, D., Jonigk, D., Thum, T., Kispert, A., Milsom, M.D., Lachmann, N. (2021). A 3D iPSC-differentiation model identifies interleukin-3 as a regulator of early human hematopoietic specification *Haematologica* 106,1354-1367. DOI: 10.3324/haematol.2019.228064
Brendel, C., Negre, O., Rothe, M., Guda, S., Parsons, G., Harris, C., McGuinness, M., Abriss, D., Tsytsykova, A., Klatt, D., Bentler, M., Pellin, D., Christiansen, L., Schambach, A., Manis, J., Trebeden-Negre, H., Bonner, M., Esrick, E., Veres, G., Armant, M., Williams, D.A. (2020). Preclinical Evaluation of a Novel Lentiviral Vector Driving Lineage-Specific BCL11A Knockdown for Sickle Cell Gene Therapy *Mol Ther Methods Clin Dev* 17,589-600. DOI: 10.1016/j.omtm.2020.03.015

Brinkert, K., Hedtfeld, S., Burhop, A., Gastmeier, R., Gad, P., Wedekind, D., Kloth, C., Roths Schuh, J., Lachmann, N., Hetzel, M., Jirno, A.C., Lopez-Rodriguez, E., Brandenberger, C., Hansen, G., Schambach, A., Ackermann, M., Tümmler, B., Munder, A. (2021). Rescue from *Pseudomonas aeruginosa* airway infection via stem cell transplantation *Mol Ther* 29,1324-1334. DOI: 10.1016/j.ymthe.2020.12.003

Brown, R.J.P., Tegtmeyer, B., Sheldon, J., Khera, T., Anggakusuma, Todt, D., Vieyres, G., Weller, R., Joecks, S., Zhang, Y., Sake, S., Bankwitz, D., Welsch, K., Ginkel, C., Engelmann, M., Gerold, G., Steinmann, E., Yuan, Q., Ott, M., Vondran, F.W.R., Krey, T., Ströh, L.J., Miskey, C., Ivics, Z., Herder, V., Baumgärtner, W., Lauber, C., Seifert, M., Tarr, A.W., McClure, C.P., Randall, G., Baktash, Y., Ploss, A., Thi, V.L.D., Michailidis, E., Saeed, M., Verhoye, L., Meuleman, P., Goedecke, N., Wirth, D., Rice, C.M., Pietschmann, T. (2020). Liver-expressed Cd302 and Cr11 limit hepatitis C virus cross-species transmission to mice *Sci Adv* 6, DOI: 10.1126/sciadv.abd3233

Craig-Mueller, N., Hammad, R., Elling, R., Alzubi, J., Timm, B., Kolter, J., Knelangen, N., Bednarski, C., Gläser, B., Ammann, S., Ivics, Z., Fischer, J., Speckmann, C., Schwarz, K., Lachmann, N., Ehl, S., Moritz, T., Henneke, P., Cathomen, T. (2020). Modeling MyD88 Deficiency In Vitro Provides New Insights in Its Function. *Front Immunol* 11,608802. DOI: 10.3389/fimmu.2020.608802

Dahlmann, J., Sahabian, A., Drick, N., Haase, A., Göhring, G., Lachmann, N., Ringshausen, F.C., Welte, T., Martin, U., Olmer, R. (2020). Generation of two hiPSC lines (MHHi016-A, MHHi016-B) from a primary ciliary dyskinesia patient carrying a homozygous 5 bp duplication (c.248_252dup (p.Gly85Cysfs*11)) in exon 1 of the CCNO gene. *Stem Cell Res* 46,101850. DOI: 10.1016/j.scr.2020.101850

Dilger, N., Neehus, A.L., Grieger, K., Hoffmann, A., Menssen, M., Ngezahayo, A. (2020). Gap Junction Dependent Cell Communication Is Modulated During Transdifferentiation of Mesenchymal Stem/Stromal Cells Towards Neuron-Like Cells *Front Cell Dev Biol* 8,869. DOI: 10.3389/fcell.2020.00869

Dragon, A.C., Zimmermann, K., Nerreter, T., Sandfort, D., Lahrberg, J., Klöss, S., Kloth, C., Mangare, C., Bonifacius, A., Tischer-Zimmermann, S., Blasczyk, R., Maecker-Kolhoff, B., Uchanska-Ziegler, B., Abken, H., Schambach, A., Hudecek, M., Eiz-Vesper, B. (2020). CAR-T cells and TRUCKs that recognize an EBNA-3C-derived epitope presented on HLA-B*35 control Epstein-Barr virus-associated lymphoproliferation *J Immunother Cancer* 8,e000736. DOI: 10.1136/jitc-2020-000736

Drick, N., Dahlmann, J., Sahabian, A., Haase, A., Göhring, G., Lachmann, N., Ringshausen, F.C., Welte, T., Martin, U., Olmer, R. (2020). Generation of two human induced pluripotent stem cell lines (MHHi017-A, MHHi017-B) from a patient with primary ciliary

dyskinesia carrying a homozygous mutation (c.7915C > T [p.Arg2639*]) in the DNAH5 gene. *Stem Cell Res* 46,101848. DOI: 10.1016/j.scr.2020.101848

Drutman, S.B., Mansouri, D., Mahdavian, S.A., Neehus, A.L., Hum, D., Bryk, R., Hernandez, N., Belkaya, S., Rapaport, F., Bigio, B., Fisch, R., Rahman, M., Khan, T., Al Ali, F., Marjani, M., Mansouri, N., Lorenzo-Diaz, L., Emile, J.F., Marr, N., Jouanguy, E., Bustamante, J., Abel, L., Boisson-Dupuis, S., Beziat, V., Nathan, C., Casanova, J.L. (2020). Fatal Cytomegalovirus Infection in an Adult with Inherited NOS2 Deficiency *N Engl J Med* 382,437-445. DOI: 10.1056/NEJMoa1910640

Garcia-Perez, L., van Eggermond, M., van Roon, L., Vloemans, S.A., Cordes, M., Schambach, A., Rothe, M., Berghuis, D., Lagresle-Peyrou, C., Cavazzana, M., Zhang, F., Thrasher, A.J., Salvatori, D., Meij, P., Villa, A., Van Dongen, J.J.M., Zwaginga, J.J., van der Burg, M., Gaspar, H.B., Lankester, A., Staal, F.J.T., Pike-Overzet, K. (2020). Successful Preclinical Development of Gene Therapy for Recombinase-Activating Gene-1-Deficient SCID *Mol Ther Methods Clin Dev* 17,666-682. DOI: 10.1016/j.omtm.2020.03.016

Gödecke, N., Riedel, J., Herrmann, S., Behme, S., Rand, U., Kubsch, T., Cicin-Sain, L., Hauser, H., Köster, M., Wirth, D. (2020). Synthetic rewiring and boosting type I interferon responses for visualization and counteracting viral infections *Nucleic Acids Res* 48,11799-11811. DOI: 10.1093/nar/gkaa961

Grasedieck, S., Ruess, C., Krowiorz, K., Lux, S., Pochert, N., Schwarzer, A., Klusmann, J.H., Jongen-Lavrencic, M., Herold, T., Bullinger, L., Pollack, J.R., Rouhi, A., Kuchenbauer, F. (2020). The long non-coding RNA Cancer Susceptibility 15 is induced by Isocitrate Dehydrogenase mutations and maintains an immature phenotype in adult acute myeloid leukemia *Haematologica* 105,e448-e453. DOI: 10.3324/haematol.2019.235291

Ha, T.C., Stahlhut, M., Rothe, M., Paul, G., Dziadek, V., Morgan, M., Brugman, M., Fehse, B., Kustikova, O., Schambach, A., Baum, C. (2021). Multiple Genes Surrounding Bcl-xL, a Common Retroviral Insertion Site, Can Influence Hematopoiesis Individually or in Concert. *Hum Gene Ther* 32,458-472. DOI: 10.1089/hum.2019.344

Haake, K., Neehus, A.L., Buchegger, T., Kühnel, M.P., Blank, P., Philipp, F., Oleaga-Quintas, C., Schulz, A., Grimley, M., Goethe, R., Jonigk, D., Kalinke, U., Boisson-Dupuis, S., Casanova, J.L., Bustamante, J., Lachmann, N. (2020). Patient iPSC-Derived Macrophages to Study Inborn Errors of the IFN-gamma Responsive Pathway Cells 9,DOI: 10.3390/cells9020483

Haake, K., Wüstefeld, T., Merkert, S., Lüttge, D., Göhring, G., Auber, B., Baumann, U., Lachmann, N. (2020). Human STAT1 gain-of-function iPSC line from a patient suffering from chronic mucocutaneous candidiasis *Stem Cell Res* 43,101713. DOI: 10.1016/j.scr.2020.101713

Hahn, K., Pollmann, L., Nowak, J., Nguyen, A.H.H., Haake, K., Neehus, A.L., Waqas, S.F.H., Pessler, F., Baumann, U., Hetzel, M., Casanova, J.L., Schulz, A., Bustamante, J., Ackermann, M., Lachmann, N. (2020). Human Lentiviral Gene Therapy Restores the Cellular Phenotype of Autosomal Recessive Complete IFN-gamma1 Deficiency *Mol Ther Methods Clin Dev* 17,785-795. DOI: 10.1016/j.omtm.2020.04.002

Hoffmann, D., Kuehle, J., Lenz, D., Philipp, F., Zychlinski, D., Lachmann, N., Moritz, T., Steinemann, D., Morgan, M., Skokowa, J., Klein, C., Schambach, A. (2020). Lentiviral gene therapy and vitamin B3 treatment enable granulocytic differentiation of G6PC3-deficient induced pluripotent stem cells *Gene Ther* 27,297-306. DOI: 10.1038/s41434-020-0127-y

Hollmann, J., Brecht, J., Goetzke, R., Franzen, J., Selich, A., Schmidt, M., Eipel, M., Ostrowska, A., Hapala, J., Fernandez-Rebollo, E., Muller-Newen, G., Rothe, M., Eggermann, T., Zenke, M., Wagner, W. (2020). Genetic barcoding reveals clonal dominance in iPSC-derived mesenchymal stromal cells. *Stem Cell Res Ther* 11,105. DOI: 10.1186/s13287-020-01619-5

Jäger, B., Klatt, D., Plappert, L., Golpon, H., Lienenklaus, S., Barbosa, P.D., Schambach, A., Prasse, A. (2020). CXCR4/MIF axis amplifies tumor growth and epithelial-mesenchymal interaction in non-small cell lung cancer *Cell Signal* 73,109672. DOI: 10.1016/j.cellsig.2020.109672

Klatt, D., Ha, T.C., Schinke, M., Selich, A., Lieske, A., Dahlke, J., Morgan, M., Maetzig, T., Schambach, A. (2020). Competitive sgRNA Screen Identifies p38 MAPK as a Druggable Target to Improve HSPC Engraftment Cells 9,2194. DOI: 10.3390/cells9102194

Kloos, A., Mintzas, K., Winckler, L., Gabdoulline, R., Alwie, Y., Jyotsana, N., Kattre, N., Schottmann, R., Scherr, M., Gupta, C., Adams, F.F., Schwarzer, A., Heckl, D., Schambach, A., Imren, S., Humphries, R.K., Ganser, A., Thol, F., Heuser, M. (2020). Effective drug treatment identified by in vivo screening in a transplantable patient-derived xenograft model of chronic myelomonocytic leukemia *Leukemia* 34,2951-2963. DOI: 10.1038/s41375-020-0929-3

Lange, L., Hoffmann, D., Schwarzer, A., Ha, T.C., Philipp, F., Lenz, D., Morgan, M., Schambach, A. (2020). Inducible Forward Programming of Human Pluripotent Stem Cells to Hemato-endothelial Progenitor Cells with Hematopoietic Progenitor Potential. *Stem Cell Reports* 15,274. DOI: 10.1016/j.stemcr.2020.05.019

- Lin, H., Rothe, K., Chen, M., Wu, A., Babaian, A., Yen, R., Zeng, J., Ruschmann, J., Petriv, O.I., O'Neill, K., Maetzig, T., Knapp, D.J.H.F., Nakamichi, N., Brinkman, R., Birol, I., Forrest, D.L., Hansen, C., Humphries, R.K., Eaves, C.J., Jiang, X. (2020).The miR-185/PAK6 axis predicts therapy response and regulates survival of drug-resistant leukemic stem cells in CML *Blood* *136*,596-609. DOI: 10.1182/blood.2019003636
- Lipus, A., Janosz, E., Ackermann, M., Hetzel, M., Dahlke, J., Buchegger, T., Wunderlich, S., Martin, U., Cathomen, T., Schambach, A., Moritz, T., Lachmann, N. (2020).Targeted Integration of Inducible Caspase-9 in Human iPSCs Allows Efficient in vitro Clearance of iPSCs and iPSC-Macrophages *Int J Mol Sci* *21*,DOI: 10.3390/ijms21072481
- Martens, R., Permanyer, M., Werth, K., Yu, K., Braun, A., Halle, O., Halle, S., Patzer, G.E., Bosnjak, B., Kiefer, F., Janssen, A., Friedrichsen, M., Poetzsch, J., Kohli, K., Lueder, Y., Gutierrez Jauregui, R., Eckert, N., Worbs, T., Galla, M., Förster, R. (2020).Efficient homing of T cells via afferent lymphatics requires mechanical arrest and integrin-supported chemokine guidance. *Nat Commun* *11*,1114. DOI: 10.1038/s41467-020-14921-w
- Merkert, S., Schubert, M., Haase, A., Janssens, H.M., Scholte, B., Lachmann, N., Göhring, G., Martin, U. (2020).Generation of an induced pluripotent stem cell line (MHHi018-A) from a patient with Cystic Fibrosis carrying p.Asn1303Lys (N1303K) mutation. *Stem Cell Res* *44*,101744. DOI: 10.1016/j.scr.2020.101744
- Müller, S., Bexte, T., Gebel, V., Kalensee, F., Stolzenberg, E., Hartmann, J., Koehl, U., Schambach, A., Wels, W.S., Modlich, U., Ullrich, E. (2020).High Cytotoxic Efficiency of Lentivirally and Alpharetrovirally Engineered CD19-Specific Chimeric Antigen Receptor Natural Killer Cells Against Acute Lymphoblastic Leukemia *Front Immunol* *10*,3123. DOI: 10.3389/fimmu.2019.03123
- Paredes, R., Kelly, J.R., Geary, B., Almarzouq, B., Schneider, M., Pearson, S., Narayanan, P., Williamson, A., Lovell, S.C., Wiseman, D.H., Chadwick, J.A., Jones, N.J., Kustikova, O., Schambach, A., Garner, T., Amaral, F.M.R., Pierce, A., Stevens, A., Somerville, T.C.P., Whetton, A.D., Meyer, S. (2020).EV11 phosphorylation at S436 regulates interactions with CtBP1 and DNMT3A and promotes self-renewal. *Cell Death Dis* *11*,878. DOI: 10.1038/s41419-020-03099-0
- Pradas-Juni, M., Hansmeier, N.R., Link, J.C., Schmidt, E., Larsen, B.D., Klemm, P., Meola, N., Topel, H., Loureiro, R., Dhaouadi, I., Kiefer, C.A., Schwarzer, R., Khani, S., Oliverio, M., Awazawa, M., Frommolt, P., Heeren, J., Scheja, L., Heine, M., Dieterich, C., Büning, H., Yang, L., Cao, H., Jesus, D.F., Kulkarni, R.N., Zevnik, B., Tröder, S.E., Knippschild, U., Edwards, P.A., Lee, R.G., Yamamoto, M., Ulitsky, I., Fernandez-Rebollo, E., Vallim, T.Q.A., Kornfeld, J.W. (2020).A MAFG-lncRNA axis links systemic nutrient abundance to hepatic glucose metabolism *Nat Commun* *11*,644. DOI: 10.1038/s41467-020-14323-y
- Ritter, M., Klimiankou, M., Klimenkova, O., Schambach, A., Hoffmann, D., Schmidt, A., Kanz, L., Link, D.C., Welte, K., Skokowa, J. (2020).Cooperating, congenital neutropenia-associated Csf3r and Runx1 mutations activate pro-inflammatory signaling and inhibit myeloid differentiation of mouse HSPCs. *Ann Hematol* *99*,2329-2338. DOI: 10.1007/s00277-020-04194-0
- Rodriguez-Marquez, E., Meumann, N., Büning, H. (2021).Adeno-associated virus (AAV) capsid engineering in liver-directed gene therapy *Expert Opin Biol Ther* *21*,749-766. DOI: 10.1080/14712598.2021.1865303
- Sens, J., Hoffmann, D., Lange, L., Vollmer Barbosa, P., Morgan, M.A., Falk, C., Schambach, A. (2021).Knock-out iPSCs for disease and therapy modeling of IL-10 associated primary immunodeficiencies. *Hum Gene Ther* *32*,77-95. DOI: 10.1089/hum.2020.235
- Sgodda, M., Alfken, S., Schambach, A., Eggenschwiler, R., Fidzinski, P., Hummel, M., Cantz, T. (2020).Synthetic Notch-Receptor-Mediated Transmission of a Transient Signal into Permanent Information via CRISPR/Cas9-Based Genome Editing. *Cells* *9*,DOI: 10.3390/cells9091929
- Wahlisch, T., Vieyres, G., Bruns, S.A., Meumann, N., Büning, H., Hauser, H., Schmitz, I., Pietschmann, T., Wirth, D. (2020).Controlled Functional Zonation of Hepatocytes In Vitro by Engineering of Wnt Signaling *ACS Synth Biol* *9*,1638-1649. DOI: 10.1021/acssynbio.9b00435
- Winkel, A., Jaimes, Y., Melzer, C., Dillschneider, P., Hartwig, H., Stiesch, M., von der Ohe, J., Strauss, S., Vogt, P.M., Hamm, A., Burmeister, L., Roger, Y., Elger, K., Floerkemeier, T., Weissinger, E.M., Pogozhykh, O., Müller, T., Selich, A., Rothe, M., Petri, S., Köhl, U., Hass, R., Hoffmann, A. (2020).Cell culture media notably influence properties of human mesenchymal stroma/stem-like cells from different tissues. *Cytotherapy* *22*,653-668. DOI: 10.1016/j.jcyt.2020.07.005
- Wolfien, M., Klatt, D., Salybekov, A.A., Li, M., Komatsu-Horii, M., Gaebel, R., Philippou-Massier, J., Schrinner, E., Akimaru, H., Akimaru, E., David, R., Garbade, J., Gummert, J., Haverich, A., Hennig, H., Iwasaki, H., Kaminski, A., Kawamoto, A., Klopsch, C., Kowallick, J.T., Krebs, S., Nesteruk, J., Reichensperner, H., Ritter, C., Stamm, C., Tani-Yokoyama, A., Blum, H., Wolkenhauer, O., Schambach, A., Asahara, T., Steinhoff, G. (2020).Hematopoietic stem-cell senescence and myocardial repair - Coronary artery disease genotype/phenotype analysis of post-MI myocardial regeneration response induced by CABG/CD133+ bone marrow hematopoietic stem cell treatment in RCT PERFECT Phase 3 *EBioMedicine* *57*,DOI: 10.1016/j.ebiom.2020.102862

Zhang, M., Lai, Y., Krupalnik, V., Guo, P., Guo, X., Zhou, J., Xu, Y., Yu, Z., Liu, L., Jiang, A., Li, W., Abdul, M.M., Ma, G., Li, N., Fu, X., Lv, Y., Jiang, M., Tariq, M., Kanwal, S., Liu, H., Xu, X., Zhang, H., Huang, Y., Wang, L., Chen, S., Babarinde, I.A., Luo, Z., Wang, D., Zhou, T., Ward, C., He, M., Ibanez, D.P., Li, Y., Zhou, J., Yuan, J., Feng, Y., Arumugam, K., Di Vicino, U., Bao, X., Wu, G., Schambach, A., Wang, H., Sun, H., Gao, F., Qin, B., Hutchins, A.P., Doble, B.W., Hartmann, C., Cosma, M.P., Qin, Y., Xu, G.L., Chen, R., Volpe, G., Chen, L., Hanna, J.H., Esteban, M.A. (2020).beta-Catenin safeguards the ground state of mouse pluripotency by strengthening the robustness of the transcriptional apparatus. *Sci Adv* 6,eaba1593. DOI: 10.1126/sciadv.aba1593

Zimmermann, K., Kuehle, J., Dragon, A.C., Galla, M., Kloth, C., Rudek, L.S., Sandalcioglu, I.E., Neyazi, B., Moritz, T., Meyer, J., Rossig, C., Altwater, B., Eiz-Vesper, B., Morgan, M.A., Abken, H., Schambach, A. (2020).Design and Characterization of an "All-in-One" Lentiviral Vector System Combining Constitutive Anti-GD2 CAR Expression and Inducible Cytokines. *Cancers (Basel)* 12,E375 [pii]. DOI: 10.3390/cancers12020375

Übersichtsarbeiten

Ackermann, M., Dragon, A.C., Lachmann, N. (2020).The Immune-Modulatory Properties of iPSC-Derived Antigen-Presenting Cells *Transfus Med Hemother* 47,444-453. DOI: 10.1159/000512721

Büning, H., Schambach, A., Morgan, M., Rossi, A., Wichova, H., Staecker, H., Warnecke, A., Lenarz, T. (2020).Challenges and advances in translating gene therapy for hearing disorders. *Expert Rev Precis Med Drug Dev* 5,23-34. DOI: 10.1080/23808993.2020.1707077

Hacker, U.T., Bentler, M., Kaniowska, D., Morgan, M., Büning, H. (2020).Towards Clinical Implementation of Adeno-Associated Virus (AAV) Vectors for Cancer Gene Therapy: Current Status and Future Perspectives. *Cancers (Basel)* 12,E1889 [pii]. DOI: 10.3390/cancers12071889

Morgan, M.A., Büning, H., Sauer, M., Schambach, A. (2020).Use of Cell and Genome Modification Technologies to Generate Improved "Off-the-Shelf" CAR T and CAR NK Cells. *Front Immunol* 11,1965. DOI: 10.3389/fimmu.2020.01965

Morgan, M., Schott, J.W., Rossi, A., Landgraf, C., Warnecke, A., Staecker, H., Lesinski-Schiedat, A., Schlegelberger, B., Büning, H., Auber, B., Schambach, A. (2020).Gene therapy as a possible option to treat hereditary hearing loss. *Medizinische Genetik* 32,149-159. DOI: 10.1515/medgen-2020-2021

Case reports

Pongamorn, P., Dahlmann, J., Haase, A., Ebeling, C.T., Merkert, S., Göhring, G., Lachmann, N., Martens, A., Haverich, A., Martin, U., Olmer, R. (2020).Generation of three induced pluripotent stem cell lines (MHHi012-A, MHHi013-A, MHHi014-A) from a family with Loey-Dietz syndrome carrying a heterozygous p.M253I (c.759G>A) mutation in the TGFBR1 gene. *Stem Cell Res* 43,101707. DOI: 10.1016/j.scr.2020.101707

Comments

Büning, H. (2020).AAV Entry: Filling in the Blanks *Mol Ther* 28,346-347. DOI: 10.1016/j.ymthe.2020.01.015

Promotionen

Breuer, J. (2020). Strategies for targeted integration of Brec1 - on the route to HIV cure Dissertation, Medizinische Hochschule Hannover, 2020

Haake, K. (2020). Stem cell derived hematopoiesis as a tool to evaluate hematopoietic cells in mendelian susceptibility to mycobacterial disease. Dissertation, Medizinische Hochschule Hannover, 2020

Janosz, E.T. (2020). Macrophage-based gene therapy approach for pulmonary manifestations of alpha 1 antitrypsin (AAT) deficiency. Dissertation, Medizinische Hochschule Hannover, 2020

Klatt, D. (2019). Generation of therapeutically effective stem cell transplants by targeted genome modification. Dissertation, Medizinische Hochschule Hannover, 2020

Lam, J.U.J. (2019). In vitro disease modeling of "Mendelian Susceptibility to Mycobacterial Disease" (MSMD) using patient specific iPSC-technology Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Lange, L. (2019). Directed hemato-endothelial differentiation of human pluripotent stem cells by defined transcriptional regulators. Dissertation, Medizinische Hochschule Hannover, 2020

Rafiei Hashtchin, A. (2020). Scalable generation of iPSC-derived myeloid cells and their therapeutic potential against *Staphylococcus aureus*. Dissertation, Medizinische Hochschule Hannover, 2020

Sens, J.C. (2020). Knock-out iPSC models for primary immunodeficiencies and development of novel therapeutic approaches. Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Kardiologie und Angiologie – 6880

Originalpublikationen

Akin, M., Garcheva, V., Sieweke, J.T., Flierl, U., Daum, H.C., Bauersachs, J., Schäfer, A. (2020). Early use of hemoadsorption in patients after out-of hospital cardiac arrest - a matched pair analysis *PLoS One* 15:e0241709. DOI: 10.1371/journal.pone.0241709

Azibani, F., Pfeffer, T.J., Ricke-Hoch, M., Dowling, W., Pietzsch, S., Briton, O., Baard, J., Abou Moulig, V., König, T., Berliner, D., Libhaber, E., Schlothauer, S., Anthony, J., Lichtinghagen, R., Bauersachs, J., Sliwa, K., Hilfiker-Kleiner, D. (2020). Outcome in German and South African peripartum cardiomyopathy cohorts associates with medical therapy and fibrosis markers. *ESC Heart Fail* 7:512-522. DOI: 10.1002/ehf2.12553

Bejinariu, A.G., Makimoto, H., Wakili, R., Mathew, S., Kosiuk, J., Linz, D., Steinfurt, J., Dechering, D.G., Meyer, C., Veltmann, C., Kelm, M., Frommeyer, G., Eckardt, L., Deneke, T., Duncker, D., Müller, P. (2020). One-Year Course of Periprocedural Anticoagulation in Atrial Fibrillation Ablation: Results of a German Nationwide Survey *Cardiology* 145:676-681. DOI: 10.1159/000509399

Beller, J., Bauersachs, J., Schäfer, A., Schwettmann, L., Heier, M., Peters, A., Meisinger, C., Geyer, S. (2020). Diverging Trends in Age at First Myocardial Infarction: Evidence from Two German Population-Based Studies *Sci Rep* 10:9610. DOI: 10.1038/s41598-020-66291-4

Cammann, V.L., Szawan, K.A., Stahli, B.E., Kato, K., Budnik, M., Wischniewsky, M., Dreiding, S., Levinson, R.A., Di Vece, D., Gili, S., Citro, R., Bossone, E., Neuhaus, M., Franke, J., Meder, B., Jaguszewski, M., Noutsias, M., Knorr, M., Heiner, S., D'Ascenzo, F., Dichtl, W., Burgdorf, C., Kherad, B., Tschöpe, C., Sarcon, A., Shinbane, J., Rajan, L., Michels, G., Pfister, R., Cuneo, A., Jacobshagen, C., Karakas, M., Koenig, W., Pott, A., Meyer, P., Roffi, M., Banning, A., Wolfrum, M., Cuculi, F., Kobza, R., Fischer, T.A., Vasankari, T., Airaksinen, K.E.J., Napp, L.C., Dworakowski, R., MacCarthy, P., Kaiser, C., Osswald, S., Galiuto, L., Chan, C., Bridgman, P., Beug, D., Delmas, C., Lairez, O., Gilyarova, E., Shilova, A., Gilyarov, M., El-Battrawy, I., Akin, I., Polednikova, K., Tousek, P., Winchester, D.E., Galuszka, J., Ukena, C., Poglajen, G., Carrilho-Ferreira, P., Hauck, C., Paolini, C., Bilato, C., Kobayashi, Y., Shoji, T., Ishibashi, I., Takahara, M., Himi, T., Din, J., Al-Shammari, A., Prasad, A., Rihal, C.S., Liu, K., Schulze, P.C., Bianco, M., Jorg, L., Rickli, H., Pestana, G., Nguyen, T.H., Bohm, M., Maier, L.S., Pinto, F.J., Widimsky, P., Felix, S.B., Braun-Dullaeus, R.C., Rottbauer, W., Hasenfuss, G., Pieske, B.M., Schunkert, H., Borggrefe, M., Thiele, H., Bauersachs, J., Katus, H.A., Horowitz, J.D., Di Mario, C., Munzel, T., Crea, F., Bax, J.J., Luscher, T.F., Ruschitzka, F., Ghadri, J.R., Opolski, G., Templin, C. (2020). Age-Related Variations in Takotsubo Syndrome. *J Am Coll Cardiol* 75:1869-1877. DOI: 10.1016/j.jacc.2020.02.057

Claus, R., Berliner, D., Bavendiek, U., Vodovar, N., Lichtinghagen, R., David, S., Patecki, M., Launay, J.M., Bauersachs, J., Haller, H., Hiss, M., Balzer, M.S. (2020). Soluble neprilysin, NT-proBNP, and growth differentiation factor-15 as biomarkers for heart failure in dialysis patients (SONGBIRD). *Clin Res Cardiol* 109:1035-1047. DOI: 10.1007/s00392-020-01597-x

Ding, E.Y., Svennberg, E., Wurster, C., Duncker, D., Manninger, M., Lubitz, S.A., Dickson, E., Fitzgibbons, T.P., Akoum, N., Al-Khatib, S.M., Attia, Z.I., Ghanbari, H., Marrouche, N.F., Mendenhall, G.S., Peters, N.S., Tarakji, K.G., Turakhia, M., Wan, E.Y., McManus, D.D. (2020). Survey of current perspectives on consumer-available digital health devices for detecting atrial fibrillation *Cardiovasc Digit Health J* 1:21-29. DOI: 10.1016/j.cvdhj.2020.06.002

Duncker, D., Svetlosak, M., Guerra, F., Nagy, K.V., Vanduyhoven, P., Mikhaylov, E.N., Kosiuk, J. (2021). Reprocessing of electrophysiology material in EHRA countries: an EHRA Young EP survey *Europace* 23:479-485. DOI: 10.1093/europace/eaab250

Dutzmann, J., Haertle, M., Daniel, J.M., Kloss, F., Musmann, R.J., Kalies, K., Knöpp, K., Pilowski, C., Sirisko, M., Sieweke, J.T., Bauersachs, J., Sedding, D.G., Gegel, S. (2021). BET bromodomain containing epigenetic reader proteins regulate vascular smooth muscle cell proliferation and neointima formation *Cardiovasc Res* 117:850-862. DOI: 10.1093/cvr/cvaa121

Eiringhaus, J., Wünsche, C.M., Tirilomis, P., Herting, J., Bork, N., Nikolaev, V.O., Hasenfuss, G., Sossalla, S., Fischer, T.H. (2020). Sacubitrilat reduces pro-arrhythmogenic sarcoplasmic reticulum Ca(2+) leak in human ventricular cardiomyocytes of patients with end-stage heart failure *ESC Heart Fail* 7:2992-3002. DOI: 10.1002/ehf2.12918

Escher, F., Pietsch, H., Aleshcheva, G., Wenzel, P., Fruhwald, F., Stumpf, C., Westermann, D., Bauersachs, J., Enseleit, F., Ruschitzka, F., Nägele, H., Laugwitz, K.L., Haake, H., Frey, N., Brachmann, J., Huber, K., Braun-Dullaeus, R.C., Bergmann, M.W., Strotmann, J., Grönefeld, G., Krülls-Münch, J., Westenfeld, R., Skurk, C., Landmesser, U., Pieske, B., Gross, U.M., Morawietz, L., Schultheiss, H.P.

- (2020).Evaluation of Myocardial Gene Expression Profiling for Superior Diagnosis of Idiopathic Giant-Cell Myocarditis and Clinical Feasibility in a Large Cohort of Patients with Acute Cardiac Decompensation *J Clin Med* *9*,E2689. DOI: 10.3390/jcm9092689
- Garg, A., Foinquinos, A., Jung, M., Janssen-Peters, H., Biss, S., Bauersachs, J., Gupta, S.K., Thum, T. (2020).MiR-181a is a novel regulator of aldosterone-mineralocorticoid receptor-mediated cardiac remodelling *Eur J Heart Fail* *22*,1366-1377. DOI: 10.1002/ehf.1813
- Geller, J.C., Wöhrle, A., Busch, M., Elsässer, A., Kleemann, T., Birkenhauer, F., Bramlage, P., Veltmann, C., ReduceIT Investigators. (2021).Reduction of inappropriate implantable cardioverter-defibrillator therapies using enhanced supraventricular tachycardia discriminators: the ReduceIT study *J Interv Card Electrophysiol* *67*,339-348. DOI: 10.1007/s10840-020-00816-9
- Greulich, S., Seitz, A., Müller, K.A.L., Grün, S., Ong, P., Ebadi, N., Kreisselmeier, K.P., Seizer, P., Bekerredjian, R., Zwadlo, C., Gräni, C., Klingel, K., Gawaz, M., Sechtem, U., Mahrholdt, H. (2020).Predictors of Mortality in Patients With Biopsy-Proven Viral Myocarditis: 10-Year Outcome Data *J Am Heart Assoc* *9*,e015351. DOI: 10.1161/JAHA.119.015351
- Grosse, G.M., Sieweke, J.T., Biber, S., Ziegler, N.L., Gabriel, M.M., Schuppner, R., Worthmann, H., Bavendiek, U., Weissenborn, K. (2020).Nonstenotic Carotid Plaque in Embolic Stroke of Undetermined Source: Interplay of Arterial and Atrial Disease *Stroke* *51*,3737-3741. DOI: 10.1161/STROKEAHA.120.030537
- Haufe, S., Kahl, K.G., Kerling, A., Protte, G., Bayerle, P., Stenner, H.T., Rolff, S., Sundermeier, T., Eigendorf, J., Kück, M., Hanke, A.A., Keller-Varady, K., Ensslen, R., Nachbar, L., Lauenstein, D., Böthig, D., Terkamp, C., Stiesch, M., Hilfiker-Kleiner, D., Haverich, A., Tegtbur, U. (2020).Employers With Metabolic Syndrome and Increased Depression/Anxiety Severity Profit Most From Structured Exercise Intervention for Work Ability and Quality of Life *Front Psychiatry* *11*,562. DOI: 10.3389/fpsy.2020.00562
- Heimerl, M., Sieve, I., Ricke-Hoch, M., Erschow, S., Battmer, K., Scherr, M., Hilfiker-Kleiner, D. (2020).Neuraminidase-1 promotes heart failure after ischemia/reperfusion injury by affecting cardiomyocytes and invading monocytes/macrophages *Basic Res Cardiol* *115*,62. DOI: 10.1007/s00395-020-00821-z
- Hess, A., Derlin, T., Koenig, T., Diekmann, J., Wittneben, A., Wang, Y., Wester, H.J., Ross, T.L., Wollert, K.C., Bauersachs, J., Bengel, F.M., Thackeray, J.T. (2020).Molecular imaging-guided repair after acute myocardial infarction by targeting the chemokine receptor CXCR4 *Eur Heart J* *41*,3564-3575. DOI: 10.1093/eurheartj/ehaa598
- Hirsch, V.G., Tongers, J., Bode, J., Berliner, D., Widder, J.D., Escher, F., Mutsenko, V., Chung, B., Rostami, F., Guba-Quint, A., Giannitsis, E., Schultheiss, H.P., Vogt, C., Bauersachs, J., Wollert, K.C., Kempf, T. (2020).Cardiac iron concentration in relation to systemic iron status and disease severity in non-ischaeamic heart failure with reduced ejection fraction *Eur J Heart Fail* *22*,2038-2046. DOI: 10.1002/ehf.1781
- Hobuss, L., Foinquinos, A., Jung, M., Kenneweg, F., Xiao, K., Wang, Y., Zimmer, K., Remke, J., Just, A., Nowak, J., Schmidt, A., Pich, A., Mazlan, S., Reamon-Buettner, S.M., Ramos, G.C., Frantz, S., Viereck, J., Loyer, X., Boulanger, C., Wollert, K.C., Fiedler, J., Thum, T. (2020).Pleiotropic cardiac functions controlled by ischemia-induced lncRNA H19 *J Mol Cell Cardiol* *146*,43-59. DOI: 10.1016/j.jmcc.2020.07.001
- Hohmann, S., Henkenberens, C., Zormpas, C., Christiansen, H., Bauersachs, J., Duncker, D., Veltmann, C. (2020).A novel open-source software-based high-precision workflow for target definition in cardiac radioablation *J Cardiovasc Electrophysiol* *37*,2689-2695. DOI: 10.1111/jce.14660
- Kattih, B., Shirvani, A., Klement, P., Garrido, A.M., Gabdoulline, R., Liebich, A., Brandes, M., Chaturvedi, A., Seeger, T., Thol, F., Göhring, G., Schlegelberger, B., Geffers, R., John, D., Bavendiek, U., Bauersachs, J., Ganser, A., Heineke, J., Heuser, M. (2021).IDH1/2 mutations in acute myeloid leukemia patients and risk of coronary artery disease and cardiac dysfunction-a retrospective propensity score analysis *Leukemia* *35*,1301-1316. DOI: 10.1038/s41375-020-01043-x
- König, S., Svetlosak, M., Grabowski, M., Duncker, D., Nagy, V.K., Bogdan, S., Vanduyhoven, P., Sohaib, S.M.A., Malaczynska-Raipold, K., Lane, D.A., Lenarczyk, R., Bollmann, A., Hindricks, G., Potpara, T.S., Kosiuk, J. (2021).Utilization and perception of same-day discharge in electrophysiological procedures and device implantations: an EHRA survey. *Europace* *23*,149-156. DOI: 10.1093/europace/ehaa301
- Kosiuk, J., Fiedler, L., Ernst, S., Duncker, D., Pavlovic, N., Guarguagli, S., Stegmann, C., Miskowicz, D., Garcia, R., Russo, V., Yakushev, A., Szegedi, N., De Potter, T. (2021).Fluoroscopy usage in contemporary interventional electrophysiology: Insights from a European registry *Clin Cardiol* *44*,36-42. DOI: 10.1002/clc.23411
- Kuschyk, J., Müller-Leisse, J., Duncker, D., Tülümen, E., Fastenrath, F., Fastner, C., Kruska, M., Akin, I., Liebe, V., Borggreffe, M., Veltmann, C., Rudic, B. (2021).Comparison of transvenous vs subcutaneous defibrillator therapy in patients with cardiac arrhythmia syndromes and genetic cardiomyopathies *Int J Cardiol* *323*,100-105. DOI: 10.1016/j.ijcard.2020.08.089

Manninger, M., Kosiuk, J., Zweiker, D., Njeim, M., Antolic, B., Kircanski, B., Larsen, J.M., Svennberg, E., Vanduyhoven, P., Duncker, D. (2020). Role of wearable rhythm recordings in clinical decision making-The weHRables project *Clin Cardiol* *43*,1032-1039. DOI: 10.1002/clc.23404

Napp, L.C., Cammann, V.L., Jaguszewski, M., Szawan, K.A., Wischnewsky, M., Gili, S., Knorr, M., Heiner, S., Citro, R., Bossone, E., D'Ascenzo, F., Neuhaus, M., Franke, J., Sorici-Barb, I., Noutsias, M., Burgdorf, C., Koenig, W., Kherad, B., Sarcon, A., Rajan, L., Michels, G., Pfister, R., Cuneo, A., Jacobshagen, C., Karakas, M., Pott, A., Meyer, P., Arroja, J.D., Banning, A., Cuculi, F., Kobza, R., Fischer, T.A., Vasankari, T., Airaksinen, K.E.J., Hauck, C., Paolini, C., Bilato, C., Imori, Y., Kato, K., Kobayashi, Y., Opolski, G., Budnik, M., Dworakowski, R., MacCarthy, P., Kaiser, C., Osswald, S., Galiuto, L., Dichtl, W., Chan, C., Bridgman, P., Beug, D., Delmas, C., Lairez, O., El-Battrawy, I., Akin, I., Gilyarova, E., Shilova, A., Gilyarov, M., Horowitz, J.D., Polednikova, K., Tousek, P., Widimsky, P., Winchester, D.E., Galuszka, J., Ukena, C., Poglajen, G., Carrilho-Ferreira, P., Di Mario, C., Prasad, A., Rihal, C.S., Schulze, P.C., Bianco, M., Crea, F., Borggrefe, M., Maier, L.S., Pinto, F.J., Braun-Dullaes, R.C., Rottbauer, W., Katus, H.A., Hasenfuss, G., Tschope, C., Pieske, B.M., Thiele, H., Schunkert, H., Böhm, M., Felix, S.B., Munzel, T., Bax, J.J., Bauersachs, J., Braunwald, E., Luscher, T.F., Ruschitzka, F., Ghadri, J.R., Templin, C. (2020). Coexistence and outcome of coronary artery disease in Takotsubo syndrome. *Eur Heart J* *41*,3255-3268. DOI: 10.1093/eurheartj/ehaa210

Napp, L.C., Sanchez Martinez, C., Akin, M., Garcheva, V., Kühn, C., Bauersachs, J., Schäfer, A. (2020). Use of extracorporeal membrane oxygenation for eCPR in the emergency room in patients with refractory out-of-hospital cardiac arrest *PLoS One* *15*,e0239777. DOI: 10.1371/journal.pone.0239777

Pfeffer, T.J., Herrmann, J., Berliner, D., König, T., Winter, L., Ricke-Hoch, M., Ponimaskin, E., Schuchardt, S., Thum, T., Hilfiker-Kleiner, D., Bauersachs, J., Kahl, K.G. (2020). Assessment of major mental disorders in a German peripartum cardiomyopathy cohort *ESC Heart Fail* *7*,4394-4398. DOI: 10.1002/ehf2.12967

Riehle, C., Weatherford, E.T., Wende, A.R., Jaishy, B.P., Seei, A.W., McCarty, N.S., Rech, M., Shi, Q., Reddy, G.R., Kutschke, W.J., Oliveira, K., Pires, K.M., Anderson, J.C., Diakos, N.A., Weiss, R.M., White, M.F., Drakos, S.G., Xiang, Y.K., Abel, E.D. (2020). Insulin receptor substrates differentially exacerbate insulin-mediated left ventricular remodeling *JCI Insight* *5*. DOI: 10.1172/jci.insight.134920

Rusnak, J., Behnes, M., Weiss, C., Nienaber, C., Reiser, L., Schupp, T., Bollow, A., Taton, G., Reichelt, T., Ellguth, D., Engelke, N., Weidner, K., Akin, M., Mashayekhi, K., Borggrefe, M., Akin, I. (2020). Non-ischemic compared to ischemic cardiomyopathy is associated with increasing recurrent ventricular tachyarrhythmias and ICD-related therapies *J Electrocardiol* *59*,174-180. DOI: 10.1016/j.jelectrocard.2020.02.009

Rusnak, J., Behnes, M., Weiss, C., Nienaber, C., Reiser, L., Schupp, T., Bollow, A., Taton, G., Reichelt, T., Ellguth, D., Engelke, N., Weidner, K., Barth, C., Kim, S.H., Akin, M., Mashayekhi, K., Grosse Meininghaus, D., Borggrefe, M., Akin, I. (2020). Impact of Left Ventricular Ejection Fraction on Recurrent Ventricular Tachyarrhythmias in Recipients of Implantable Cardioverter Defibrillators *Cardiology* *145*,359-369. DOI: 10.1159/000504876

Schäfer, A., Werner, N., Burkhoff, D., Sieweke, J.T., Zietzer, A., Masyuk, M., Junker Udesen, N.L., Westenfeld, R., Moller, J.E. (2020). Influence of Timing and Predicted Risk on Mortality in Impella-Treated Infarct-Related Cardiogenic Shock Patients *Front Cardiovasc Med* *7*,74. DOI: 10.3389/fcvm.2020.00074

Scholz, K.H., Lengenfelder, B., Thilo, C., Jeron, A., Stefanow, S., Janssens, U., Bauersachs, J., Schulze, P.C., Winter, K.D., Schröder, J., Vom Dahl, J., von Beckerath, N., Seidl, K., Friede, T., Meyer, T. (2020). Impact of COVID-19 outbreak on regional STEMI care in Germany *Clin Res Cardiol* *109*,1511-1521. DOI: 10.1007/s00392-020-01703-z

Schupp, T., Akin, I., Reiser, L., Bollow, A., Taton, G., Borggrefe, M., Reichelt, T., Ellguth, D., Engelke, N., Barre, M., Müller, J., Weidner, K., Kim, S.H., Akin, M., Meininghaus, D.G., Behnes, M. (2021). No impact of mineralocorticoid receptor antagonists on long-term recurrences of ventricular tachyarrhythmias *Pacing Clin Electrophysiol* *44*,213-224. DOI: 10.1111/pace.14137

Schupp, T., Behnes, M., Kim, S.H., Müller, J., Weidner, K., Reiser, L., Huseynov, A., Bollow, A., Borggrefe, M., Taton, G., Reichelt, T., Ellguth, D., Engelke, N., Akin, M., Grosse Meininghaus, D., Bertsch, T., Akin, I. (2021). Comparable risk of recurrent ventricular tachyarrhythmias in implantable cardioverter-defibrillator recipients treated with single beta-blocker or combined amiodarone *Basic Clin Pharmacol Toxicol* *128*,493-502. DOI: 10.1111/bcpt.13532

Schupp, T., Bertsch, T., von Zworowsky, M., Kim, S.H., Weidner, K., Rusnak, J., Barth, C., Reiser, L., Taton, G., Reichelt, T., Ellguth, D., Engelke, N., Bollow, A., Akin, M., Mashayekhi, K., Grosse Meininghaus, D., Borggrefe, M., Akin, I., Behnes, M. (2020). Prognostic impact of potassium levels in patients with ventricular tachyarrhythmias *Clin Res Cardiol* *109*,1292-1306. DOI: 10.1007/s00392-020-01624-x

Sieweke, J.T., Akin, M., Stetskamp, S., Riehle, C., Jonigk, D., Flierl, U., Pfeffer, T.J., Hirsch, V., Dutzmann, J., Hoepfer, M.M., Kühn, C., Bauersachs, J., Schäfer, A. (2020). Mechanical circulatory support in refractory cardiogenic shock due to influenza virus-related myocarditis *Eur Respir J* *56*,2000925. DOI: 10.1183/13993003.00925-2020

Sieweke, J.T., Pfeffer, T.J., Biber, S., Chatterjee, S., Weissenborn, K., Grosse, G.M., Hagemus, J., Derda, A.A., Berliner, D., Lichtinghagen, R., Hilfiker-Kleiner, D., Bauersachs, J., Bär, C., Thum, T., Bavendiek, U. (2020). miR-21 and NT-proBNP Correlate with Echocardiographic Parameters of Atrial Dysfunction and Predict Atrial Fibrillation *J Clin Med* *9*. DOI: 10.3390/jcm9041118

Sliwa, K., Petrie, M.C., van der Meer, P., Mebazaa, A., Hilfiker-Kleiner, D., Jackson, A.M., Maggioni, A.P., Laroche, C., Regitz-Zagrosek, V., Schaufelberger, M., Tavazzi, L., Roos-Hesselink, J.W., Seferovic, P., van Spaendonck-Zwarts, K., Mbakwem, A., Böhm, M., Mouquet, F., Pieske, B., Johnson, M.R., Hamdan, R., Ponikowski, P., Van Velthuisen, D.J., McMurray, J.J.V., Bauersachs, J. (2020). Clinical presentation, management, and 6-month outcomes in women with peripartum cardiomyopathy: an ESC EORP registry *Eur Heart J* *41*,3787-3797. DOI: 10.1093/eurheartj/ehaa455

Stenner, H.T., Eigendorf, J., Kerling, A., Kueck, M., Hanke, A.A., Boyen, J., Nelius, A.K., Melk, A., Boethig, D., Bara, C., Hilfiker, A., Berliner, D., Bauersachs, J., Hilfiker-Kleiner, D., Eberhard, J., Stiesch, M., Schippert, C., Haverich, A., Tegtbur, U., Haufe, S. (2020). Effects of six month personalized endurance training on work ability in middle-aged sedentary women: a secondary analysis of a randomized controlled trial. *J Occup Med Toxicol* *15*,8. DOI: 10.1186/s12995-020-00261-4

Stojanovic, S.D., Fuchs, M., Kunz, M., Xiao, K., Just, A., Pich, A., Bauersachs, J., Fiedler, J., Sedding, D., Thum, T. (2020). Inflammatory Drivers of Cardiovascular Disease: Molecular Characterization of Senescent Coronary Vascular Smooth Muscle Cells *Front Physiol* *11*,520. DOI: 10.3389/fphys.2020.00520

Tongers, J., Sieweke, J.T., Kühn, C., Napp, L.C., Flierl, U., Röntgen, P., Schmitto, J.D., Sedding, D.G., Haverich, A., Bauersachs, J., Schäfer, A. (2020). Early Escalation of Mechanical Circulatory Support Stabilizes and Potentially Rescues Patients in Refractory Cardiogenic Shock *Circ Heart Fail* *13*,e005853. DOI: 10.1161/CIRCHEARTFAILURE.118.005853

Veltmann, C., Winter, S., Duncker, D., Jungbauer, C.G., Wässnig, N.K., Geller, J.C., Erath, J.W., Goeing, O., Perings, C., Ulbrich, M., Roser, M., Husser, D., Gansera, L.S., Soezener, K., Malur, F.M., Block, M., Fetsch, T., Kutyla, V., Klein, H.U. (2021). Protected risk stratification with the wearable cardioverter-defibrillator: results from the WEARIT-II-EUROPE registry *Clin Res Cardiol* *110*,102-113. DOI: 10.1007/s00392-020-01657-2

Wandrer, F., Frangez, Z., Liebig, S., John, K., Vondran, F., Wedemeyer, H., Veltmann, C., Pfeffer, T.J., Shibolet, O., Schulze-Osthoff, K., Simon, H.U., Bantel, H. (2020). Autophagy alleviates amiodarone-induced hepatotoxicity *Arch Toxicol* *94*,3527-3539. DOI: 10.1007/s00204-020-02837-9

Wijeyeratne, Y.D., Tanck, M.W., Mizusawa, Y., Batchvarov, V., Barc, J., Crotti, L., Bos, J.M., Tester, D.J., Muir, A., Veltmann, C., Ohno, S., Page, S.P., Galvin, J., Tadros, R., Muggenthaler, M., Raju, H., Denjoy, I., Schott, J.J., Gourraud, J.B., Skoric-Milosavljevic, D., Nannenberg, E.A., Redon, R., Papadakis, M., Kyndt, F., Dagradi, F., Castelletti, S., Torchio, M., Meitinger, T., Lichtner, P., Ishikawa, T., Wilde, A.A.M., Takahashi, K., Sharma, S., Roden, D.M., Borggrefe, M.M., McKeown, P.P., Shimizu, W., Horie, M., Makita, N., Aiba, T., Ackerman, M.J., Schwartz, P.J., Probst, V., Bezzina, C.R., Behr, E.R. (2020). SCN5A Mutation Type and a Genetic Risk Score Associate Variably With Brugada Syndrome Phenotype in SCN5A Families *Circ Genom Precis Med* *13*,e002911. DOI: 10.1161/CIRCGEN.120.002911

Willy, K., Müller, P., Eckardt, L., Duncker, D. (2020). Aktueller Stand der rhythmologischen Ausbildung in Deutschland *Herzschrittmacherther Elektrophysiol* *37*,341-344. DOI: 10.1007/s00399-020-00717-4

Zormpas, C., Eiringhaus, J., Hillmann, H.A.K., Hohmann, S., Müller-Leisse, J., Schmitto, J.D., Veltmann, C., Duncker, D. (2021). Eligibility for subcutaneous implantable cardioverter-defibrillator in patients with left ventricular assist device *J Interv Card Electrophysiol* *60*,303-311. DOI: 10.1007/s10840-020-00810-1

Zormpas, C., Eiringhaus, J., Hillmann, H.A.K., Hohmann, S., Müller-Leisse, J., Schmitto, J.D., Veltmann, C., Duncker, D. (2021). A novel screening tool to unmask potential interference between S-ICD and left ventricular assist device *J Cardiovasc Electrophysiol* *37*,3286-3292. DOI: 10.1111/jce.14769

Leitlinien von Fachgesellschaften

Collet, J.P., Thiele, H., Barbato, E., Barthelémy, O., Bauersachs, J., Bhatt, D.L., Dendale, P., Dorobantu, M., Edvardsen, T., Folliguet, T., Gale, C.P., Gilard, M., Jobs, A., Juni, P., Lambrinou, E., Lewis, B.S., Mehilli, J., Meliga, E., Merkely, B., Mueller, C., Roffi, M., Rutten, F.H., Sibbing, D., Siontis, G.C.M., ESC Scientific Document Group. (2021). 2020 ESC Guidelines for the management of acute coronary syndromes in patients presenting without persistent ST-segment elevation. *Eur Heart J* *42*,1289-1367. DOI: 10.1093/eurheartj/ehaa575

Rassaf, T., Totzeck, M., Backs, J., Bokemeyer, C., Hallek, M., Hilfiker-Kleiner, D., Hochhaus, A., Lüftner, D., Müller, O.J., Neudorf, U., Pfister, R., von Haehling, S., Lehmann, L.H., Bauersachs, J., Committee for Clinical Cardiovascular Medicine of the German Cardiac Society.

(2020).Onco-Cardiology: Consensus Paper of the German Cardiac Society, the German Society for Pediatric Cardiology and Congenital Heart Defects and the German Society for Hematology and Medical Oncology *Clin Res Cardiol* 109,1197-1222. DOI: 10.1007/s00392-020-01636-7

Werdan, K., Boeken, U., Briegel, M.J., Buerke, M., Geppert, A., Janssens, U., Kelm, M., Michels, G., Pilarczyk, K., Schlitt, A., Thiele, H., Willems, S., Zeymer, U., Zwissler, B., Delle-Karth, G., Ferrari, M., Figulla, H., Heller, A., Hindricks, G., Pichler-Cetin, E., Pieske, B.M., Pronczinsky, R., Thielmann, M., Bauersachs, J., Kopp, I., Russ, M. (2021).Kurzversion der 2. Auflage der deutsch-österreichischen S3-Leitlinie "Infarkt-bedingter Kardiogener Schock - Diagnose, Monitoring und Therapie" *Anaesthesist* 70,42-70. DOI: 10.1007/s00101-020-00868-6

Übersichtsarbeiten

Agarwal, R., Kolkhof, P., Bakris, G., Bauersachs, J., Haller, H., Wada, T., Zannad, F. (2021).Steroidal and non-steroidal mineralocorticoid receptor antagonists in cardiorenal medicine *Eur Heart J* 42,152-161. DOI: 10.1093/eurheartj/ehaa736

Anker, S.D., Butler, J., Khan, M.S., Abraham, W.T., Bauersachs, J., Bocchi, E., Bozkurt, B., Braunwald, E., Chopra, V.K., Cleland, J.G., Ezekowitz, J., Filippatos, G., Friede, T., Hernandez, A.F., Lam, C.S.P., Lindenfeld, J., McMurray, J.J.V., Mehra, M., Metra, M., Packer, M., Pieske, B., Pocock, S.J., Ponikowski, P., Rosano, G.M.C., Teerlink, J.R., Tsutsui, H., Van Veldhuisen, D.J., Verma, S., Voors, A.A., Wittes, J., Zannad, F., Zhang, J., Seferovic, P., Coats, A.J.S. (2020).Conducting clinical trials in heart failure during (and after) the COVID-19 pandemic: an Expert Consensus Position Paper from the Heart Failure Association (HFA) of the European Society of Cardiology (ESC) *Eur Heart J* 41,2109-2117. DOI: 10.1093/eurheartj/ehaa461

Berliner, D., Häselmann, A., Bauersachs, J. (2020).The Treatment of Heart Failure with Reduced Ejection Fraction. *Dtsch Arztebl Int* 117,376-386. DOI: 10.3238/arztebl.2020.0376

Chioncel, O., Parissis, J., Mebazaa, A., Thiele, H., Desch, S., Bauersachs, J., Harjola, V.P., Antohi, E.L., Arrigo, M., Gal, T.B., Celutkiene, J., Collins, S.P., DeBacker, D., Iliescu, V.A., Jankowska, E., Jaarsma, T., Keramida, K., Lainscak, M., Lund, L.H., Lyon, A.R., Masip, J., Metra, M., Miro, O., Mortara, A., Mueller, C., Mullens, W., Nikolaou, M., Piepoli, M., Price, S., Rosano, G., Vieillard-Baron, A., Weinstein, J.M., Anker, S.D., Filippatos, G., Ruschitzka, F., Coats, A.J.S., Seferovic, P. (2020).Epidemiology, pathophysiology and contemporary management of cardiogenic shock - a position statement from the Heart Failure Association of the European Society of Cardiology *Eur J Heart Fail* 22,1315-1341. DOI: 10.1002/ehjhf.1922

de Boer, R.A., Hulot, J.S., Tocchetti, C.G., Aboumsallem, J.P., Ameri, P., Anker, S.D., Bauersachs, J., Bertero, E., Coats, A.J.S., Celutkiene, J., Chioncel, O., Dodion, P., Eschenhagen, T., Farmakis, D., Bayes-Genis, A., Jäger, D., Jankowska, E.A., Kitsis, R.N., Konety, S.H., Larkin, J., Lehmann, L., Lenihan, D.J., Maack, C., Moslehi, J.J., Müller, O.J., Nowak-Sliwinska, P., Piepoli, M.F., Ponikowski, P., Pudil, R., Rainer, P.P., Ruschitzka, F., Sawyer, D., Seferovic, P.M., Suter, T., Thum, T., van der Meer, P., Van Laake, L.W., von Haehling, S., Heymans, S., Lyon, A.R., Backs, J. (2020).Common mechanistic pathways in cancer and heart failure. A scientific roadmap on behalf of the Translational Research Committee of the Heart Failure Association (HFA) of the European Society of Cardiology (ESC) *Eur J Heart Fail* 22,2272-2289. DOI: 10.1002/ehjhf.2029

Harjola, V.P., Parissis, J., Bauersachs, J., Brunner-La Rocca, H.P., Bueno, H., Celutkiene, J., Chioncel, O., Coats, A.J.S., Collins, S.P., de Boer, R.A., Filippatos, G., Gayat, E., Hill, L., Laine, M., Lassus, J., Lommi, J., Masip, J., Mebazaa, A., Metra, M., Miro, O., Mortara, A., Mueller, C., Mullens, W., Peacock, W.F., Pentikainen, M., Piepoli, M.F., Polyzogopoulou, E., Rudiger, A., Ruschitzka, F., Seferovic, P., Sionis, A., Teerlink, J.R., Thum, T., Varpula, M., Weinstein, J.M., Yilmaz, M.B. (2020).Acute coronary syndromes and acute heart failure: a diagnostic dilemma and high-risk combination. A statement from the Acute Heart Failure Committee of the Heart Failure Association of the European Society of Cardiology *Eur J Heart Fail* 22,1298-1314. DOI: 10.1002/ehjhf.1831

Hermans, A.N.L., van der Velden, R.M.J., Gawalko, M., Verhaert, D.V.M., Desteghe, L., Duncker, D., Manninger, M., Heidebuchel, H., Pisters, R., Hemels, M., Pison, L., Sohaib, A., Sultan, A., Steven, D., Wijtvliet, P., Tieleman, R., Gupta, D., Dobrev, D., Svennberg, E., Crijns, H.J.G.M., Pluymaekers, N.A.H.A., Hendriks, J.M., Linz, D., TeleCheck-AF investigators. (2020).On-demand mobile health infrastructures to allow comprehensive remote atrial fibrillation and risk factor management through teleconsultation *Clin Cardiol* 43,1232-1239. DOI: 10.1002/clc.23469

Jaarsma, T., Hill, L., Bayes-Genis, A., La Rocca, H.B., Castiello, T., Celutkiene, J., Marques-Sule, E., Plymen, C.M., Piper, S.E., Riegel, B., Rutten, F.H., Ben Gal, T., Bauersachs, J., Coats, A.J.S., Chioncel, O., Lopatin, Y., Lund, L.H., Lainscak, M., Moura, B., Mullens, W., Piepoli, M.F., Rosano, G., Seferovic, P., Strömberg, A. (2021).Self-care of heart failure patients: practical management recommendations from the Heart Failure Association of the European Society of Cardiology *Eur J Heart Fail* 23,157-174. DOI: 10.1002/ehjhf.2008

Klinke, A., Schubert, T., Müller, M., Legchenko, E., Zelt, J.G.E., Shimauchi, T., Napp, L.C., Rothman, A.M.K., Bonnet, S., Stewart, D.J., Hansmann, G., Rudolph, V. (2020).Emerging therapies for right ventricular dysfunction and failure *Cardiovasc Diagn Ther* 10,1735-1767. DOI: 10.21037/cdt-20-592

Lüsebrink, E., Orban, M., Kupka, D., Scherer, C., Hagl, C., Zimmer, S., Luedike, P., Thiele, H., Westermann, D., Massberg, S., Schäfer, A., Orban, M. (2020).Prevention and treatment of pulmonary congestion in patients undergoing venoarterial extracorporeal membrane oxygenation for cardiogenic shock *Eur Heart J* 41,3753-3761. DOI: 10.1093/eurheartj/ehaa547

Lyon, A.R., Dent, S., Stanway, S., Earl, H., Brezden-Masley, C., Cohen-Solal, A., Tocchetti, C.G., Moslehi, J.J., Groarke, J.D., Bergler-Klein, J., Khoo, V., Tan, L.L., Anker, M.S., von Haehling, S., Maack, C., Pudil, R., Barac, A., Thavendiranathan, P., Ky, B., Neilan, T.G., Belenkov, Y., Rosen, S.D., Iakobishvili, Z., Sverdlov, A.L., Hajjar, L.A., Macedo, A.V.S., Manisty, C., Ciardiello, F., Farmakis, D., de Boer, R.A., Skouri, H., Suter, T.M., Cardinale, D., Witteles, R.M., Fradley, M.G., Herrmann, J., Cornell, R.F., Wechelaker, A., Mauro, M.J., Milojkovic, D., de Lavallade, H., Ruschitzka, F., Coats, A.J.S., Seferovic, P.M., Chioncel, O., Thum, T., Bauersachs, J., Andres, M.S., Wright, D.J., Lopez-Fernandez, T., Plummer, C., Lenihan, D. (2020). Baseline cardiovascular risk assessment in cancer patients scheduled to receive cardiotoxic cancer therapies: a position statement and new risk assessment tools from the Cardio-Oncology Study Group of the Heart Failure Association of the European Society of Cardiology in collaboration with the International Cardio-Oncology Society *Eur J Heart Fail* 22,1945-1960. DOI: 10.1002/ehf.1920

Mariani, S., Napp, L.C., Lo Coco, V., Delnoij, T.S.R., Luermans, J.G.L.M., Ter Bekke, R.M.A., Timmermans, C., Li, T., Dogan, G., Schmitto, J.D., Maessen, J., Maesen, B., Lorusso, R. (2020). Mechanical circulatory support for life-threatening arrhythmia: A systematic review *Int J Cardiol* 308,42-49. DOI: 10.1016/j.ijcard.2020.03.045

Mariani, S., Richter, J., Pappalardo, F., Belohlavek, J., Lorusso, R., Schmitto, J.D., Bauersachs, J., Napp, L.C. (2020). Mechanical circulatory support for Takotsubo syndrome: a systematic review and meta-analysis *Int J Cardiol* 316,31-39. DOI: 10.1016/j.ijcard.2020.05.033

Mullens, W., Auricchio, A., Martens, P., Witte, K., Cowie, M.R., Delgado, V., Dickstein, K., Linde, C., Vernooy, K., Leyva, F., Bauersachs, J., Israel, C.W., Lund, L., Donal, E., Boriani, G., Jaarsma, T., Berruezo, A., Traykov, V., Yousef, Z., Kalarus, Z., Nielsen, J.C., Steffel, J., Vardas, P., Coats, A., Seferovic, P., Edvardsen, T., Heidbuchel, H., Ruschitzka, F., Leclercq, C. (2020). Optimized Implementation of cardiac resynchronization therapy - a call for action for referral and optimization of care *Eur J Heart Fail* 22,2349-2369. DOI: 10.1002/ehf.2046

Schäfer, A., Flierl, U., Bauersachs, J. (2021). Anti-thrombotic strategies in patients with atrial fibrillation undergoing PCI *Clin Res Cardiol* 110,759-774. DOI: 10.1007/s00392-020-01708-8

Schäfer, A., Flierl, U., Berliner, D., Bauersachs, J. (2020). Anticoagulants for Stroke Prevention in Atrial Fibrillation in Elderly Patients *Cardiovasc Drugs Ther* 34,555-568. DOI: 10.1007/s10557-020-06981-3

Stojanovic, S.D., Fiedler, J., Bauersachs, J., Thum, T., Sedding, D.G. (2020). Senescence-induced inflammation: an important player and key therapeutic target in atherosclerosis *Eur Heart J* 41,2983-2996. DOI: 10.1093/eurheartj/ehz919

Werner, R.A., Thackeray, J.T., Diekmann, J., Weiberg, D., Bauersachs, J., Bengel, F.M. (2020). The Changing Face of Nuclear Cardiology: Guiding Cardiovascular Care Toward Molecular Medicine *J Nucl Med* 61,951-961. DOI: 10.2967/jnumed.119.240440

Wu, X., Rebol, M.R., Korf-Klingebiel, M., Wollert, K.C. (2021). Angiogenesis After Acute Myocardial Infarction *Cardiovasc Res* 117,1257-1273. DOI: 10.1093/cvr/cvaa287

Letter

Hoes, M.F., Bomer, N., Ricke-Hoch, M., de Jong, T.V., Arevalo Gomez, K.F., Pietzsch, S., Hilfiker-Kleiner, D., van der Meer, P. (2020). Human iPSC-Derived Cardiomyocytes of Peripartum Patients With Cardiomyopathy Reveal Aberrant Regulation of Lipid Metabolism Circulation 142,2288-2291. DOI: 10.1161/CIRCULATIONAHA.119.044962

Olsson, K.M., Fuge, J., Brod, T., Kamp, J.C., Schmitto, J., Kempf, T., Bauersachs, J., Hoeper, M.M. (2020). Oral iron supplementation with ferric maltol in patients with pulmonary hypertension *Eur Respir J* 56, DOI: 10.1183/13993003.00616-2020

Schäfer, A., Sanchez Martinez, C., Flierl, U., Leitolf, H., Tillmanns, J., Bauersachs, J. (2020). Standardized secondary prevention in patients with ST-elevation myocardial infarction. *Eur J Prev Cardiol* DOI: 10.1093/eurjpc/zwaa078

Case reports

König, T., Hanke, J.S., Dogan, G., Kempf, T., Sieweke, J.T., Schäfer, A., Bauersachs, J., Schmitto, J.D., Napp, L.C. (2021). Advanced preconditioning: Impella 5.5 support for decompensated heart failure before left ventricular assist device surgery *Cardiovasc Revasc Med* 28,189-192. DOI: 10.1016/j.carrev.2020.08.022

Editorials

Bauersachs, J., Veltmann, C. (2020). Heart rate control in heart failure with reduced ejection fraction: the bright and the dark side of the moon. *Eur J Heart Fail* 22,539-542. DOI: 10.1002/ejhf.1733

Hilfiker-Kleiner, D., König, T., Bauersachs, J. (2020). Natriuretic Peptide Receptor 1, a Novel Player in Peripartum Heart Failure *Circulation* 141,589-591. DOI: 10.1161/CIRCULATIONAHA.119.043957

Abstracts

Mariani, S., Napp, L.C., Schmitto, J.D. (2020). Mens sana in corpore sano: Challenges beyond LVAD implantation *Artif Organs* 44,1310-1311. DOI: 10.1111/aor.13774

Promotionen

Brandes, F. (2020). CTRP 9 - ein neuer Modulator der kardialen Hypertrophie und der Angiogenese. Dissertation, Medizinische Hochschule Hannover, 2020

Hövelmann, J. (2019). Kritische Rolle des Glukokortikoidrezeptors in Makrophagen für die Heilung und das Remodeling nach Myokardinfarkt. Dissertation, Medizinische Hochschule Hannover, 2020

Musmann, R.J. (2019). The novel mineralocorticoid receptor antagonist finerenone attenuates neointima formation after vascular injury. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Wingert, C. (2020). Charakterisierung der Interaktion von Thrombozyten mit anderen Blutzellen beim Myokardinfarkt sowie Einfluss mechanischer Kreislaufunterstützung auf die Thrombozytenfunktion Dissertation, Medizinische Hochschule Hannover, 2020

Zormpas, C. (2020). Elektrokardiographische Veränderungen nach Implantation eines linksventrikulären Unterstützungssystems und deren klinische Relevanz für den subkutanen implantierbaren Kardioverter-Defibrillator Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Rheumatologie – 6830

Originalpublikationen

Alberts, A., Klingberg, A., Wessig, A.K., Combes, C., Witte, T., Brand, K., Pich, A., Neumann, K. (2020). C-reactive protein (CRP) recognizes uric acid crystals and recruits proteases C1 and MASP1. *Sci Rep* 10,6391. DOI: 10.1038/s41598-020-63318-8

Ansari, A.W., Sharif-Askari, F.S., Jayakumar, M.N., Mohammed, A.K., Sharif-Askari, N.S., Venkatachalam, T., Mahboub, B., Schmidt, R.E., Hamoudi, R.A., Halwani, R., Hamid, Q. (2020). Azithromycin Differentially Alters TCR-Activated Helper T Cell Subset Phenotype and Effector Function. *Front Immunol* 11,556579. DOI: 10.3389/fimmu.2020.556579

Baerlecken, N., Pursche, N., Witte, T., Kniesch, K., Höpfner, M., Ernst, D., Moosig, F., Seeliger, B., Prasse, A. (2020). Presence of Antibodies Binding to Negative Elongation Factor E in Sarcoidosis *J Clin Med* 9, DOI: 10.3390/jcm9030715

Baier, C., Ebadi, E., Mett, T.R., Stoll, M., Küther, G., Vogt, P.M., Bange, F.C. (2020). Epidemiologic and Molecular Investigation of a MRSA Outbreak Caused by a Contaminated Bathtub for Carbon Dioxide Hydrotherapy and Review of the Literature. *Can J Infect Dis Med Microbiol* 2020,1613903. DOI: 10.1155/2020/1613903

Baraliakos, X., Witte, T., De Clerck, L., Frediani, B., Collantes-Estevez, E., Katsifis, G., VanLunen, B., Kleine, E., Hoepken, B., Bauer, L., Goodson, N. (2020). Effectiveness and safety of 12-month certolizumab pegol treatment for axial spondyloarthritis in real-world clinical practice in Europe. *Rheumatology (Oxford)* 60,113-124. DOI: 10.1093/rheumatology/keaa181

Behrens, G.M.N., Cossmann, A., Stankov, M.V., Schulte, B., Streeck, H., Förster, R., Bosnjak, B., Willenzon, S., Boeck, A.L., Thu Tran, A., Thiele, T., Graalmann, T., Kayser, M.Z., Zychlinsky Scharff, A., Dopfer, C., Horke, A., Pink, I., Witte, T., Wetzke, M., Ernst, D., Jablonka, A., Happle, C. (2020). Strategic Anti-SARS-CoV-2 Serology Testing in a Low Prevalence Setting: The COVID-19 Contact (CoCo) Study in Healthcare Professionals *Infect Dis Ther* 9,837-849. DOI: 10.1007/s40121-020-00334-1

Behrens, G.M.N., Cossmann, A., Stankov, M.V., Witte, T., Ernst, D., Happle, C., Jablonka, A. (2020). Perceived versus proven SARS-CoV-2-specific immune responses in health-care professionals *Infection* 48,631-634. DOI: 10.1007/s15010-020-01461-0

- Beider, S., Flohr, S., Gehlert, S., Witte, T., Ernst, D. (2021). Zusammenhang von körperlicher Aktivität mit Fatigue und Funktionskapazität bei Patienten mit rheumatoider Arthritis. *Z Rheumatol* *80*,113-121. DOI: 10.1007/s00393-020-00830-2
- Beretta, L., Barturen, G., Vigone, B., Bellocchi, C., Hunzelmann, N., De Langhe, E., Cervera, R., Gerosa, M., Kovacs, L., Ortega Castro, R., Almeida, I., Cornec, D., Chizzolini, C., Pers, J.O., Makowska, Z., Lesche, R., Kerick, M., Alarcon-Riquelme, M.E., Martin, J., PRECISESADS SSc substudy group, PRECISESADS Flow Cytometry study group. (2020). Genome-wide whole blood transcriptome profiling in a large European cohort of systemic sclerosis patients *Ann Rheum Dis* *79*,1218-1226. DOI: 10.1136/annrheumdis-2020-217116
- Blockus, S., Sake, S.M., Wetzke, M., Grethe, C., Graalmann, T., Pils, M., Le Goffic, R., Galloux, M., Prochnow, H., Rox, K., Hüttel, S., Rupcic, Z., Wiegmann, B., Dijkman, R., Rameix-Welti, M.A., Eleouet, J.F., Duprex, W.P., Thiel, V., Hansen, G., Brönstrup, M., Haid, S., Pietschmann, T. (2020). Labyrinthopeptins as virolytic inhibitors of respiratory syncytial virus cell entry *Antiviral Res* *177*,104774. DOI: 10.1016/j.antiviral.2020.104774
- Boffito, M., Ryom, L., Spinner, C., Martinez, E., Behrens, G., Rockstroh, J., Hohenauer, J., Lacombe, K., Psychogyiou, M., Voith, N., Mallon, P., Branco, T., Svedhem, V., dArminio Monforte, A. (2020). Clinical management of ageing people living with HIV in Europe: the view of the care providers. *Infection* *48*,497-506. DOI: 10.1007/s15010-020-01406-7
- Borst, K., Flindt, S., Blank, P., Larsen, P.K., Chhatbar, C., Skerra, J., Spanier, J., Hirche, C., König, M., Alanentalo, T., Hafner, M., Waibler, Z., Pfeffer, K., Sexl, V., Sutter, G., Müller, W., Graalmann, T., Kalinke, U. (2020). Selective reconstitution of IFN γ gene function in Ncr1+ NK cells is sufficient to control systemic vaccinia virus infection *PLoS Pathog* *16*,e1008279. DOI: 10.1371/journal.ppat.1008279
- Bosnjak, B., Stein, S.C., Willenzon, S., Cordes, A.K., Puppe, W., Bernhardt, G., Ravens, I., Ritter, C., Schultze-Florey, C.R., Gödecke, N., Martens, J., Kleine-Weber, H., Hoffmann, M., Cossmann, A., Yilmaz, M., Pink, I., Hoepfer, M.M., Behrens, G.M.N., Pöhlmann, S., Blasczyk, R., Schulz, T.F., Forster, R. (2021). Low serum neutralizing anti-SARS-CoV-2 S antibody levels in mildly affected COVID-19 convalescent patients revealed by two different detection methods *Cell Mol Immunol* *18*,936-944. DOI: 10.1038/s41423-020-00573-9
- Butryn, M., Neumann, J., Rolfes, L., Bartels, C., Wattjes, M.P., Mahmoudi, N., Seeliger, T., Konen, F.F., Thiele, T., Witte, T., Meuth, S.G., Skripuletz, T., Pawlitzki, M. (2020). Clinical, Radiological, and Laboratory Features of Spinal Cord Involvement in Primary Sjogren's Syndrome. *J Clin Med* *9*,DOI: 10.3390/jcm9051482
- Do, L., Granasen, G., Hellman, U., Lejon, K., Geijer, M., Baraliakos, X., Witte, T., Forsblad-d'Elia, H. (2021). Anti-CD74 IgA autoantibodies in radiographic axial spondyloarthritis; a longitudinal Swedish study. *Rheumatology (Oxford)* *60*,4085-4093. DOI: 10.1093/rheumatology/keaa882
- Dopfer, C., Wetzke, M., Zychlinsky Scharff, A., Mueller, F., Dressler, F., Baumann, U., Sasse, M., Hansen, G., Jablonka, A., Happle, C. (2020). COVID-19 related reduction in pediatric emergency healthcare utilization - a concerning trend. *BMC Pediatr* *20*,427. DOI: 10.1186/s12887-020-02303-6
- Gaborit, B.J., Bergmann, J.F., Mussini, C., Arribas, J.R., Behrens, G., Walmsley, S., Pozniak, A., Raffi, F. (2020). Plea for multitargeted interventions for severe COVID-19 *Lancet Infect Dis* *20*,1122-1123. DOI: 10.1016/S1473-3099(20)30312-1
- Gonzalez-Serna, D., Ochoa, E., Lopez-Isac, E., Julia, A., Degenhardt, F., Ortego-Centeno, N., Radstake, T.R.D.J., Franke, A., Marsal, S., Mayes, M.D., Martin, J., Marquez, A., Scleroderma Genetic Consortium. (2020). A cross-disease meta-GWAS identifies four new susceptibility loci shared between systemic sclerosis and Crohn's disease. *Sci Rep* *10*,1862. DOI: 10.1038/s41598-020-58741-w
- Gross, R., Bauer, R., Krüger, F., Rucker-Braun, E., Olari, L.R., Ständker, L., Preising, N., Rodriguez, A.A., Conzelmann, C., Gerbl, F., Sauter, D., Kirchhoff, F., Hagemann, B., Gacanin, J., Weil, T., Ruiz-Blanco, Y.B., Sanchez-Garcia, E., Forssmann, W.G., Mankertz, A., Santibanez, S., Stenger, S., Walther, P., Wiese, S., Spellerberg, B., Münch, J. (2020). A Placenta Derived C-Terminal Fragment of beta-Hemoglobin With Combined Antibacterial and Antiviral Activity. *Front Microbiol* *11*,508. DOI: 10.3389/fmicb.2020.00508
- Ho, G.T., Hiemisch, W., Pich, A., Behrens, G.M.N., Blasczyk, R., Bade-Doeding, C. (2020). The Loss of HLA-F/KIR3DS1 Ligation Is Mediated by Hemoglobin Peptides *Int J Mol Sci* *21*,DOI: 10.3390/ijms21218012
- Jablonka, A., Etemadi, H., Adriawan, I.R., Ernst, D., Jacobs, R., Buyny, S., Witte, T., Schmidt, R.E., Atschekzei, F., Sogkas, G. (2020). Peripheral Blood Lymphocyte Phenotype Differentiates Secondary Antibody Deficiency in Rheumatic Disease from Primary Antibody Deficiency *J Clin Med* *9*,1049. DOI: 10.3390/jcm9041049
- Joan, O., Thiele, T., Schütz, K., Schwerk, N., Sedlacek, L., Kalsdorf, B., Baumann, U., Stoll, M. (2020). Multidrug-resistant Mycobacterium tuberculosis: a report of cosmopolitan microbial migration and an analysis of best management practices *BMC Infect Dis* *20*,678. DOI: 10.1186/s12879-020-05381-0

Konen, F.F., Wurster, U., Witte, T., Jendretzky, K.F., Gingele, S., Tumani, H., Sühs, K.W., Stangel, M., Schwenkenbecher, P., Skripuletz, T. (2020).The Impact of Immunomodulatory Treatment on Kappa Free Light Chains as Biomarker in Neuroinflammation Cells *9*,DOI: 10.3390/cells9040842

Kuhlmann, E., Falkenbach, M., Klasa, K., Pavolini, E., Ungureanu, M.I. (2020).Migrant carers in Europe in times of COVID-19: a call to action for European health workforce governance and a public health approach *Eur J Public Health 30*,iv22-iv27. DOI: 10.1093/eurpub/ckaa126

Le Lann, L., Jouve, P.E., Alarcon-Riquelme, M., Jamin, C., Pers, J.O., PRECISESADS Flow Cytometry Study Group, PRECISESADS Clinical Consortium. (2020).Standardization procedure for flow cytometry data harmonization in prospective multicenter studies *Sci Rep 10*,11567. DOI: 10.1038/s41598-020-68468-3

Lorenzini, T., Fliegau, M., Klammer, N., Frede, N., Proietti, M., Bulashevska, A., Camacho-Ordóñez, N., Varjosalo, M., Kinnunen, M., de Vries, E., van der Meer, J.W.M., Ameratunga, R., Roifman, C.M., Schejter, Y.D., Kobbe, R., Hautala, T., Atsckezei, F., Schmidt, R.E., Schröder, C., Stepensky, P., Shadur, B., Pedroza, L.A., van der Flier, M., Martinez-Gallo, M., Gonzalez-Granado, L.I., Allende, L.M., Shcherbina, A., Kuzmenko, N., Zakharova, V., Neves, J.F., Svec, P., Fischer, U., Ip, W., Bartsch, O., Baris, S., Klein, C., Geha, R., Chou, J., Alosaimi, M., Weintraub, L., Boztug, K., Hirschmugl, T., Dos Santos Vilela, M.M., Holzinger, D., Seidl, M., Lougaris, V., Plebani, A., Alsina, L., Piquer-Gibert, M., Deya-Martinez, A., Slade, C.A., Aghamohammadi, A., Abolhassani, H., Hammarstrom, L., Kuismäki, O., Helminen, M., Allen, H.L., Thaventhiran, J.E., Freeman, A.F., Cook, M., Bakhtiar, S., Christiansen, M., Cunningham-Rundles, C., Patel, N.C., Rae, W., Niehues, T., Brauer, N., Syrjänen, J., Seppänen, M.R.J., Burns, S.O., Tuijnenburg, P., Kuijpers, T.W., NIHR BioResource, Warnatz, K., Grimbacher, B., NIHR BioResource. (2020).Characterization of the clinical and immunologic phenotype and management of 157 individuals with 56 distinct heterozygous NFKB1 mutations. *J Allergy Clin Immunol 146*,901-911. DOI: 10.1016/j.jaci.2019.11.051

Lotta, G., Kuhlmann, E. (2021).When informal work and poor work conditions backfire and fuel the COVID-19 pandemic: Why we should listen to the lessons from Latin America. *Int J Health Plann Manage 36*,976-979. DOI: 10.1002/hpm.3104

Melzer, C., Jacobs, R., Dittmar, T., Pich, A., von der Ohe, J., Yang, Y., Hass, R. (2020).Reversible Growth-Arrest of a Spontaneously-Derived Human MSC-Like Cell Line *Int J Mol Sci 21*,E4752. DOI: 10.3390/ijms21134752

Möhn, N., Pul, R., Kleinschmitt, C., Prüss, H., Witte, T., Stangel, M., Skripuletz, T. (2020).Implications of COVID-19 Outbreak on Immune Therapies in Multiple Sclerosis Patients-Lessons Learned From SARS and MERS *Front Immunol 11*,1059. DOI: 10.3389/fimmu.2020.01059

Müller, F., Hummers, E., Hillermann, N., Dopfer, C., Jablonka, A., Friede, T., Simmenroth, A., Wetzke, M. (2020).Factors Influencing the Frequency of Airway Infections in Underage Refugees: A Retrospective, Cross Sectional Study. *Int J Environ Res Public Health 17*,DOI: 10.3390/ijerph17186823

Safreed-Harmon, K., Kall, M., Anderson, J., Azzopardi-Muscat, N., Behrens, G.M.N., d'Arminio Monforte, A., Davidovich, U., Noori, T., Lazarus, J.V. (2020).Ability to Monitor National Responses to the HIV Epidemic "Beyond Viral Suppression": Findings From Six European Countries. *Front Public Health 8*,36. DOI: 10.3389/fpubh.2020.00036

Samri, A., Chalouni, M., Blanco, J., Behrens, G., Kelleher, P., Massanella, M., Ahmad, F., Clotet, B., Plettenberg, A., Katlama, C., Richert, L., Raffi, F., Autran, B., Thiebaut, R., and NEAT 001/ANRS 143 Trial Study Group. (2021).Influence of the ARV regimen on the early changes in plasma HIV RNA and immune activation at initiation of antiretroviral therapy in naive HIV-1-infected patients *J Acquir Immune Defic Syndr 86*,e146-e149. DOI: 10.1097/QAI.0000000000002594

Schirmer, J.H., Aries, P.M., Balzer, K., Berlit, P., Bley, T.A., Buttgerit, F., Czihal, M., Dechant, C., Dejaco, C., Garske, U., Henes, J., Holle, J.U., Holl-Ulrich, K., Lamprecht, P., Nölle, B., Moosig, F., Rech, J., Scheuermann, K., Schmalzing, M., Schmidt, W.A., Schneider, M., Schulze-Koops, H., Venhoff, N., Villiger, P.M., Witte, T., Zänker, M., Hellmich, B. (2020).S2k-Leitlinie (Kurzfassung): Management der Grossgefäßvaskulitiden *Z Rheumatol 79*,937-942. DOI: 10.1007/s00393-020-00894-0

Schirmer, J.H., Aries, P.M., Balzer, K., Berlit, P., Bley, T.A., Buttgerit, F., Czihal, M., Dechant, C., Dejaco, C., Garske, U., Henes, J., Holle, J.U., Holl-Ulrich, K., Lamprecht, P., Nölle, B., Moosig, F., Rech, J., Scheuermann, K., Schmalzing, M., Schmidt, W.A., Schneider, M., Schulze-Koops, H., Venhoff, N., Villiger, P.M., Witte, T., Zänker, M., Hellmich, B. (2020).S2k-Leitlinie: Management der Grossgefäßvaskulitiden *Z Rheumatol 79*,67-95. DOI: 10.1007/s00393-020-00893-1

Seeliger, T., Böning, L., Witte, T., Thiele, T., Lesinski-Schiedat, A., Stangel, M., Lenarz, T., Prenzler, N.C., Skripuletz, T. (2020).Hearing dysfunction in patients with Neuro-Sjogren: a cross-sectional study *Ann Transl Med 8*,1069-20-1856. DOI: 10.21037/atm-20-1856

Seeliger, T., Jacobsen, L., Hendel, M., Böning, L., Kristian Prenzler, N.K., Thiele, T., Ernst, D., Witte, T., Stangel, M., Kopp, B., Skripuletz, T. (2020).Cognitive impairment in patients with Neuro-Sjogren *Ann Clin Transl Neurol 7*,1352-1359. DOI: 10.1002/acn3.51123

Sogkas, G., Adriawan, I.R., Dubrowinskaja, N., Atsckezkei, F., Schmidt, R.E. (2020). Homeostatic and pathogenic roles of PI3Kdelta in the human immune system *Adv Immunol* 74,109-137. DOI: 10.1016/bs.ai.2020.02.001

Sogkas, G., Dubrowinskaja, N., Adriawan, I.R., Anim, M., Witte, T., Schmidt, R.E., Atsckezkei, F. (2020). High frequency of variants in genes associated with primary immunodeficiencies in patients with rheumatic diseases with secondary hypogammaglobulinaemia *Ann Rheum Dis* DOI: 10.1136/annrheumdis-2020-218280

Sogkas, G., Hirsch, S., Olsson, K.M., Hinrichs, J.B., Thiele, T., Seeliger, T., Skripuletz, T., Schmidt, R.E., Witte, T., Jablonka, A., Ernst, D. (2020). Lung Involvement in Primary Sjogren's Syndrome-An Under-Diagnosed Entity *Front Med (Lausanne)* 7,332. DOI: 10.3389/fmed.2020.00332

Stecher, M., Chaillon, A., Stephan, C., Knops, E., Kohmer, N., Lehmann, C., Eberle, J., Bogner, J., Spinner, C.D., Eis-Hübinger, A.M., Wasmuth, J.C., Schäfer, G., Behrens, G., Mehta, S.R., Vehreschild, J.J., Hoenigl, M. (2020). Drug Resistance Spread in 6 Metropolitan Regions, Germany, 2001-2018(1). *Emerg Infect Dis* 26,2439-2443. DOI: 10.3201/eid2610.191506

Stecher, M., Schommers, P., Kollan, C., Stoll, M., Kuhlendahl, F., Stellbrink, H.J., Wasmuth, J.C., Stephan, C., Hamacher, L., Lehmann, C., Boesecke, C., Bogner, J., Esser, S., Fritzsche, C., Haberl, A., Hoffmann, C., Jensen, B., Schwarze-Zander, C., Platten, M., Fätkenheuer, G., Schmidt, D., Günsheimer-Bartmeyer, B., Vehreschild, J.J., ClinSurv Study Group. (2020). Treatment modification after starting cART in people living with HIV: retrospective analysis of the German ClinSurv HIV Cohort 2005-2017 *Infection* 48,723-733. DOI: 10.1007/s15010-020-01469-6

Tewes, S., Hensen, B., Jablonka, A., Gawe, D., Kastikainen, M., Happel, C., Carlens, J., Berthold, L.D., Wacker, F. (2020). Tuberculosis screening during the 2015 European refugee crisis *BMC Public Health* 20,200. DOI: 10.1186/s12889-020-8303-y

Theobald, S.J., Kreer, C., Khailaie, S., Bonifacius, A., Eiz-Vesper, B., Figueiredo, C., Mach, M., Backovic, M., Ballmaier, M., Koenig, J., Olbrich, H., Schneider, A., Volk, V., Danisch, S., Gieselmann, L., Ercanoglu, M.S., Messerle, M., Kaisenberg, C.V., Witte, T., Klawonn, F., Meyer-Hermann, M., Klein, F., Stripecke, R. (2020). Repertoire characterization and validation of gB-specific human IgGs directly cloned from humanized mice vaccinated with dendritic cells and protected against HCMV *PLoS Pathog* 16,e1008560. DOI: 10.1371/journal.ppat.1008560

Thiagarajan, D., Oparina, N., Lundstrom, S., Zubarev, R., Sun, J., PRECISEADS Clinical Consortium, Alarcon-Riquelme, M., Frostegard, J. (2020). IgM antibodies against malondialdehyde and phosphorylcholine in different systemic rheumatic diseases *Sci Rep* 10,11010. DOI: 10.1038/s41598-020-66981-z

van Kempen, T.S., Leijten, E.F.A., Lindenbergh, M.F.S., Nordkamp, M.O., Driessen, C., Lebbink, R.J., Baerlecken, N., Witte, T., Radstake, T.R.D.J., Boes, M. (2020). Impaired proteolysis by SPPL2a causes CD74 fragment accumulation that can be recognized by anti-CD74 auto-antibodies in human ankylosing spondylitis *Eur J Immunol* 50,1209-1219. DOI: 10.1002/eji.201948502

Witte, T. (2020). Ein langjähriges Sjögren-Syndrom ohne erhöhtes Lymphomrisiko *Z Rheumatol* 79,571-573. DOI: 10.1007/s00393-020-00827-x

Witte, T. (2020). Neue Antikörper in der Diagnostik *Z Rheumatol* 79,1022-1024. DOI: 10.1007/s00393-020-00914-z

Witte, T., Köhler, M., Georgi, J., Schweikhard, E., Matthias, T., Baerlecken, N., Hermann, K.G., Sieper, J., Rudwaleit, M., Poddubnyy, D. (2020). IgA antibodies against CD74 are associated with structural damage in the axial skeleton in patients with axial spondyloarthritis *Clin Exp Rheumatol* 38,1127-1131.

Zabotti, A., Zandonella Callegher, S., Tullio, A., Vukicevic, A., Hocevar, A., Milic, V., Cafaro, G., Carotti, M., Delli, K., De Lucia, O., Ernst, D., Ferro, F., Gattamelata, A., Germano, G., Giovannini, I., Hammenfors, D., Jonsson, M.V., Jousse-Joulin, S., Macchioni, P., Parisi, S., Perricone, C., Stradner, M.H., Filipovic, N., Tzioufas, A.G., Valent, F., De Vita, S. (2020). Salivary Gland Ultrasonography in Sjogren's Syndrome: A European Multicenter Reliability Exercise for the HarmonicSS Project *Front Med (Lausanne)* 7,581248. DOI: 10.3389/fmed.2020.581248

Übersichtsarbeiten

Aringer, M., Baerwald, C., Bergner, R., Feuchtenberger, M., Gebhardt, C., Hagen, M., Keysser, G., Lorenz, H.M., Witte, T. (2021). Rheumatologie im Medizinstudium *Z Rheumatol* 80,2-8. DOI: 10.1007/s00393-020-00933-w

Lorenz, H.M., Aringer, M., Braun, J., Hoyer, B.F., Krause, A., Meyer-Olson, D., Mucke, J., Rudwaleit, M., Schneider, M., Sewerin, P., Späthling-Mestekemper, S., Specker, C., Voormann, A., Wagner, U., Wendler, J., Schulze-Koops, H. (2020). Leitbild der Rheumatologinnen und Rheumatologen in der Deutschen Gesellschaft für Rheumatologie e.V. (DGRh e.V.): Wir sind die Rheumatologie *Z Rheumatol* 79,1018-1021. DOI: 10.1007/s00393-020-00919-8

Möhn, N., Konen, F.F., Pul, R., Kleinschnitz, C., Prüss, H., Witte, T., Stangel, M., Skripuletz, T. (2020). Experience in Multiple Sclerosis Patients with COVID-19 and Disease-Modifying Therapies: A Review of 873 Published Cases. *J Clin Med* 9, DOI: 10.3390/jcm9124067

Letter

Sogkas, G., Hirsch, S., Jablonka, A., Witte, T., Schmidt, R.E., Atsckezei, F. (2020). Dupilumab to treat severe atopic dermatitis in autosomal dominant hyper-IgE syndrome. *Clin Immunol* 215, 108452. DOI: 10.1016/j.clim.2020.108452

Case reports

Thiele, T., Seeliger, T., Witte, T., Sander, B., Skripuletz, T., Ernst, D. (2020). Schwere Polyneuropathie bei primärem Sjogren-Syndrom : Bei Patienten mit motorischen Neuropathien auch an Sjogren-Syndrom denken! *Z Rheumatol* 79, 707-709. DOI: 10.1007/s00393-020-00821-3

Editorials

Kuhlmann, E., Dussault, G., Wismar, M. (2020). Health labour markets and the 'human face' of the health workforce: resilience beyond the COVID-19 pandemic *Eur J Public Health* 30, iv1-iv2. DOI: 10.1093/eurpub/ckaa122

Abstracts

Kaba, H., Kuhlmann, E., Scheithauer, S. (2020). Nurse density matters: a 30-country observational study of antimicrobial resistance priority type. *Eur J Public Health* 30, v116. DOI: 10.1093/eurpub/ckaa165.314

Kreitlow, A., Steffens, S., Kuhlmann, E. (2020). Students as advocates of global health goals: the case of medical education in Germany. *Eur J Public Health* 30, v227. DOI: 10.1093/eurpub/ckaa165.610

Kuhlmann, E., Burau, V., Falkenbach, M., Klasa, K., Pavolini, E. (2020). Migrant carers in Europe: double jeopardy of labour market exploitation and hostile environments. *Eur J Public Health* 30, v44. DOI: 10.1093/eurpub/ckaa165.107

Kuhlmann, E., Ernst, D., Jablonka, A. (2020). The specialised health workforce matters: how to adapt the WHO National Health Workforce Accounts. *Eur J Public Health* 30, v289. DOI: 10.1093/eurpub/ckaa165.788

Habilitationen

Ernst, D. (2020). Autoimmunität bei kardiovaskulären Erkrankungen: Screening und Evaluation von Antikörpern bei Artherosklerose und Akutem Koronarsyndrom. Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Promotionen

Beider, R. (2020). Krankheitsverlauf und Lebensqualität bei Patienten mit rheumatoider Arthritis im Rahmen der integrierten Patientenversorgung in Niedersachsen. Dissertation, Medizinische Hochschule Hannover, 2020

Klose, K.E. (2019). CD74 ist ein T- Zell Antigen bei der Spondyloarthritis Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Nieren- und Hochdruckerkrankungen – 6840

Originalpublikationen

Balzer, M.S., Rong, S., Nordlohne, J., Zemtsovski, J.D., Schmidt, S., Stapel, B., Bartosova, M., von Vietinghoff, S., Haller, H., Schmitt, C.P., Shushakova, N. (2020). SGLT2 Inhibition by Intraperitoneal Dapagliflozin Mitigates Peritoneal Fibrosis and Ultrafiltration Failure in a Mouse Model of Chronic Peritoneal Exposure to High-Glucose Dialysate Biomolecules 10, 1573. DOI: 10.3390/biom10111573

Beger, C., Unger, T., Haller, H., Limbourg, F.P. (2020). Antihypertensive prescription patterns and cardiovascular risk in patients with newly diagnosed hypertension- an analysis of statutory health insurance data in Germany. *Blood Press* 29, 357-361. DOI: 10.1080/08037051.2020.1779582

Birkeland, K.I., Bodegard, J., Eriksson, J.W., Norhammar, A., Haller, H., Linssen, G.C.M., Banerjee, A., Thuresson, M., Okami, S., Garal-Pantaler, E., Overbeek, J., Mamza, J.B., Zhang, R., Yajima, T., Komuro, I., Kadowaki, T. (2020). Heart failure and chronic kidney disease manifestation and mortality risk associations in type 2 diabetes: A large multinational cohort study. *Diabetes Obes Metab* 22, 1607-1618. DOI: 10.1111/dom.14074

Bünemann, M., Bauer-Hohmann, M., Klewitz, F., Kyaw Tha Tun, E.M., Tegtbur, U., Pape, L., Schiffer, L., Schiffer, M., de Zwaan, M., Nöhre, M. (2020). Beliefs about immunosuppressant medication and correlates in a German kidney transplant population *J Psychosom Res* 132,109989. DOI: 10.1016/j.jpsychores.2020.109989

Callemeyn, J., Lerut, E., de Loo, H., Arijs, I., Thauinat, O., Koenig, A., Meas-Yedid, V., Olivo-Marin, J.C., Halloran, P., Chang, J., Thorrez, L., Kuypers, D., Sprangers, B., Van Lommel, L., Schuit, F., Essig, M., Gwinner, W., Anglicheau, D., Marquet, P., Naesens, M. (2020). Transcriptional Changes in Kidney Allografts with Histology of Antibody-Mediated Rejection without Anti-HLA Donor-Specific Antibodies *J Am Soc Nephrol* 31,2168-2183. DOI: 10.1681/ASN.2020030306

Chatzikyrkou, C., Scurt, F.G., Menne, J., Korda, A., Mertens, P.R., Haller, H. (2020). Influence of pre-treatment blood pressure levels on antihypertensive drug benefits in diabetics: the roadmap experience. *Blood Press* 29,247-255. DOI: 10.1080/08037051.2020.1750298

Claus, R., Berliner, D., Bavendiek, U., Vodovar, N., Lichtinghagen, R., David, S., Patecki, M., Launay, J.M., Bauersachs, J., Haller, H., Hiss, M., Balzer, M.S. (2020). Soluble neprilysin, NT-proBNP, and growth differentiation factor-15 as biomarkers for heart failure in dialysis patients (SONGBIRD). *Clin Res Cardiol* 109,1035-1047. DOI: 10.1007/s00392-020-01597-x

de Boer, S., Klewitz, F., Bauer-Hohmann, M., Schiffer, L., Tegtbur, U., Pape, L., Schiffer, M., de Zwaan, M., Nöhre, M. (2020). Knowledge About Immunosuppressant Medication and Its Correlates in a German Kidney Transplant Population - Results of a KTx360 degrees Substudy Patient Prefer Adherence 14,1699-1708. DOI: 10.2147/PPA.S269201

Derlin, K., Hellms, S., Gutberlet, M., Peperhove, M., Jang, M.S., Greite, R., Hartung, D., Derlin, T., Fegbeutel, C., Tudorache, I., Jüttner, B., Wiese, B., Lichtinghagen, R., Haller, H., Haverich, A., Wacker, F., Warnecke, G., Gueler, F. (2020). Application of MR diffusion imaging for non-invasive assessment of acute kidney injury after lung transplantation *Medicine (Baltimore)* 99,e22445. DOI: 10.1097/MD.00000000000022445

Einecke, G., Reeve, J., Gupta, G., Böhmig, G.A., Eskandary, F., Bromberg, J.S., Budde, K., Halloran, P.F., INTERCOMEX investigators. (2021). Factors associated with kidney graft survival in pure antibody-mediated rejection at the time of indication biopsy: Importance of parenchymal injury but not disease activity. *Am J Transplant* 21,1391-1401. DOI: 10.1111/ajt.16161

Gamrekelashvili, J., Kapanadze, T., Sablotny, S., Ratiu, C., Dastagir, K., Lochner, M., Karbach, S., Wenzel, P., Sitnow, A., Fleig, S., Sparwasser, T., Kalinke, U., Holzmann, B., Haller, H., Limbourg, F.P. (2020). Notch and TLR signaling coordinate monocyte cell fate and inflammation. *Elife* 9,e57007. DOI: 10.7554/eLife.57007

Greite, R., Derlin, K., Hensen, B., Thorenz, A., Rong, S., Chen, R., Hellms, S., Jang, M.S., Bräsen, J.H., Meier, M., Willenberg, I., Immenschuh, S., Haller, H., Luft, F.C., Panigrahy, D., Hwang, S.H., Hammock, B.D., Schebb, N.H., Gueler, F. (2020). Early antihypertensive treatment and ischemia-induced acute kidney injury. *Am J Physiol Renal Physiol* 319,F563-F570. DOI: 10.1152/ajprenal.00078.2020

Hacker, K.S., Jansson, K., Pichler, J., Salman, J., Avsar, M., Siemeni, T., Knöfel, A.K., Hoffler, K., Gottlieb, J., Frühauf, J., Werner, M., Poyanmehr, R., Jonigk, D., Balzer, M.S., Hewicker-Trautwein, M., Haverich, A., Sommer, W., Warnecke, G. (2021). Delayed non-myeloablative irradiation to induce long-term allograft acceptance in a large animal lung transplantation model. *Transpl Immunol* 65,101350. DOI: 10.1016/j.trim.2020.101350

Halloran, P.F., Böhmig, G.A., Bromberg, J.S., Budde, K., Gupta, G., Einecke, G., Eskandary, F., Madill-Thomsen, K., Reeve, J., INTERCOMEX investigators. (2021). Discovering novel injury features in kidney transplant biopsies associated with TCMR and donor aging. *Am J Transplant* 21,1725-1739. DOI: 10.1111/ajt.16374

Heerspink, H.J.L., Stefansson, B.V., Chertow, G.M., Correa-Rotter, R., Greene, T., Hou, F.F., Lindberg, M., McMurray, J., Rossing, P., Toto, R., Langkilde, A.M., Wheeler, D.C., DAPA-CKD Investigators. (2020). Rationale and protocol of the Dapagliflozin And Prevention of Adverse outcomes in Chronic Kidney Disease (DAPA-CKD) randomized controlled trial. *Nephrol Dial Transplant* 35,274-282. DOI: 10.1093/ndt/gfz290

Helmke, A., Hüsing, A.M., Gaedcke, S., Brauns, N., Balzer, M.S., Reinhardt, M., Hiss, M., Shushakova, N., de Luca, D., Prinz, I., Haller, H., von Vietinghoff, S. (2021). Peritoneal dialysate-range hypertonic glucose promotes T-cell IL-17 production that induces mesothelial inflammation *Eur J Immunol* 51,354-367. DOI: 10.1002/eji.202048733

Idowu, T.O., Etzrodt, V., Seeliger, B., Bolanos-Palmieri, P., Thamm, K., Haller, H., David, S. (2020). Identification of specific Tie2 cleavage sites and therapeutic modulation in experimental sepsis. *Elife* 9,e59520. DOI: 10.7554/eLife.59520

Kiyan, Y., Tkachuk, S., Rong, S., Gorrasi, A., Ragno, P., Dumler, I., Haller, H., Shushakova, N. (2020). TLR4 Response to LPS Is Reinforced by Urokinase Receptor. *Front Immunol* 11,573550. DOI: 10.3389/fimmu.2020.573550

- Kreimann, K., Jang, M.S., Rong, S., Greite, R., von Vietinghoff, S., Schmitt, R., Bräsen, J.H., Schiffer, L., Gerstenberg, J., Vijayan, V., Ditrach-Breiholz, O., Wang, L., Karsten, C.M., Gwinner, W., Haller, H., Immenschuh, S., Gueler, F. (2020). Ischemia Reperfusion Injury Triggers CXCL13 Release and B-Cell Recruitment After Allogenic Kidney Transplantation *Front Immunol* *11*, DOI: 10.3389/fimmu.2020.01204
- Kühne, J.F., Neudörfel, C., Beushausen, K., Keil, J., Malysheva, S., Wandrer, F., Haller, H., Messerle, M., Blume, C., Neuenhahn, M., Schlott, F., Hammerschmidt, W., Zeidler, R., Falk, C.S. (2020). Differential effects of Belatacept on virus-specific memory versus de novo allo-specific T cell responses of kidney transplant recipients and healthy donors. *Transpl Immunol* *61*, 101291. DOI: 10.1016/j.trim.2020.101291
- Lenders, M., Nordbeck, P., Kurschat, C., Karabul, N., Kaufeld, J., Hennermann, J.B., Patten, M., Cybulla, M., Müntze, J., Üceyler, N., Liu, D., Das, A.M., Sommer, C., Pogoda, C., Reiermann, S., Duning, T., Gaedeke, J., Stumpfe, K., Blaschke, D., Brand, S.M., Mann, W.A., Kampmann, C., Muschol, N., Cnaan-Kühl, S., Brand, E. (2020). Treatment of Fabry's Disease With Migalastat: Outcome From a Prospective Observational Multicenter Study (FAMOUS). *Clin Pharmacol Ther* *108*, 326-337. DOI: 10.1002/cpt.1832
- Melk, A., Schmidt, B.M.W., Geyer, S., Epping, J. (2020). Sex disparities in dialysis initiation, access to waitlist, transplantation and transplant outcome in German patients with renal disease-A population based analysis *PLoS One* *15*, e0241556. DOI: 10.1371/journal.pone.0241556
- Memaran, N., Küpper, C., Borchert-Mörlins, B., von Wick, A., Bauer, E., Jäckel, E., Maasoumy, B., Vondran, F.W.R., Sugianto, R.I., von der Born, J., Schmidt, B.M.W., Melk, A. (2021). Prospective assessment of subclinical cardiovascular damage and associated factors in liver transplant recipients *Transpl Int* *34*, 127-138. DOI: 10.1111/tri.13773
- Mertens, I., Willems, H., Van Loon, E., Schildermans, K., Boonen, K., Baggerman, G., Valkenburg, D., Gwinner, W., Anglicheau, D., Essig, M., Marquet, P., Naesens, M. (2020). Urinary Protein Biomarker Panel for the Diagnosis of Antibody-Mediated Rejection in Kidney Transplant Recipients *Kidney Int Rep* *5*, 1448-1458. DOI: 10.1016/j.ekir.2020.06.018
- Naik, M.G., Jürgensen, J.S., Arns, W., Basic, E., Budde, K., Eitner, F., Fischereeder, M., Gossmann, J., Heller, K.M., Heyne, N., Morath, C., Riester, U., Diekmann, F., Gwinner, W. (2020). Determinants of Successful Use of Sirolimus in Renal Transplant Patients. *Transplant Proc* *52*, 3103-3111. DOI: 10.1016/j.transproceed.2020.02.159
- Njau, F., Shushakova, N., Schenk, H., Wulfmeyer, V.C., Bollin, R., Menne, J., Haller, H. (2020). Calcium dobesilate reduces VEGF signaling by interfering with heparan sulfate binding site and protects from vascular complications in diabetic mice *PLoS One* *15*, e0218494. DOI: 10.1371/journal.pone.0218494
- Nöhre, M., Schieffer, E., Hanke, A., Pape, L., Schiffer, L., Schiffer, M., de Zwaan, M. (2020). Obesity After Kidney Transplantation-Results of a KTx360 degrees Substudy *Front Psychiatry* *11*, 399. DOI: 10.3389/fpsy.2020.00399
- Patecki, M., Scheffner, I., Haller, H., Gwinner, W. (2020). Long-term renal graft outcome after parathyroidectomy - a retrospective single centre study *BMC Nephrol* *21*, 53. DOI: 10.1186/s12882-020-01723-x
- Rondeau, E., Scully, M., Ariceta, G., Barbour, T., Cataland, S., Heyne, N., Miyakawa, Y., Ortiz, S., Swenson, E., Vallee, M., Yoon, S.S., Kavanagh, D., Haller, H., 311 Study Group. (2020). The long-acting C5 inhibitor, Ravulizumab, is effective and safe in adult patients with atypical hemolytic uremic syndrome naive to complement inhibitor treatment. *Kidney Int* *97*, 1287-1296. DOI: 10.1016/j.kint.2020.01.035
- Roy-Chowdhury, E., Brauns, N., Helmke, A., Nordlohne, J., Bräsen, J.H., Schmitz, J., Volkmann, J., Fleig, S.V., Kusche-Vihrog, K., Haller, H., von Vietinghoff, S. (2020). Human CD16+ monocytes promote a pro-atherosclerotic endothelial cell phenotype via CX3CR1-CX3CL1 interaction. *Cardiovasc Res* *cvaa234*. DOI: 10.1093/cvr/cvaa234
- Schmidt, J.J., Eden, G., Seffer, M.T., Winkler, M., Kielstein, J.T. (2020). In vitro elimination of anti-infective drugs by the Seraph((R)) 100 Microbind((R)) affinity blood filter *Clin Kidney J* *13*, 421-424. DOI: 10.1093/ckj/sfaa063
- Seffer, M.T., Martens-Lobenhoffer, J., Schmidt, J.J., Eden, G., Bode-Böger, S.M., Kielstein, J.T. (2021). Clearance of chloroquine and hydroxychloroquine by the Seraph(R) 100 Microbinda Affinity Blood Filter -a device approved for the treatment of COVID-19 patients *Ther Apher Dial* *25*, 237-241. DOI: 10.1111/1744-9987.13549
- Sen, P., Helmke, A., Liao, C.M., Sorensen-Zender, I., Rong, S., Bräsen, J.H., Melk, A., Haller, H., von Vietinghoff, S., Schmitt, R. (2020). SerpinB2 Regulates Immune Response in Kidney Injury and Aging. *J Am Soc Nephrol* *31*, 983-995. DOI: 10.1681/ASN.2019101085
- Stahl, K., Busch, M., Fuge, J., Schneider, A., Manns, M.P., Seeliger, B., Schmidt, J.J., Wiesner, O., Schmidt, B.M.W., Taubert, R., Vondran, F.W.R., Hoepfer, M.M., David, S. (2020). Therapeutic plasma exchange in acute on chronic liver failure *J Clin Apher* *35*, 316-327. DOI: 10.1002/jca.21799

Stahl, K., Schmidt, J.J., Seeliger, B., Schmidt, B.M.W., Welte, T., Haller, H., Hoepfer, M.M., Budde, U., Bode, C., David, S. (2020). Effect of therapeutic plasma exchange on endothelial activation and coagulation-related parameters in septic shock *Crit Care* 24,71. DOI: 10.1186/s13054-020-2799-5

Stocklassa, T., Borchert-Mörlins, B., Memaran, N., Einecke, G., Schmitt, R., Richter, N., Vondran, F.W., Bauer, E., Markefke, S., Melk, A., Schmidt, B.M.W. (2021). Sex Differences in Subclinical Cardiovascular Organ Damage After Renal Transplantation: A Single-Center Cohort Study *J Womens Health (Larchmt)* 30,1352-1361. DOI: 10.1089/jwh.2020.8594

Suarez, N.M., Blyth, E., Li, K., Ganzenmueller, T., Camiolo, S., Avdic, S., Withers, B., Linnenweber-Held, S., Gwinner, W., Dhingra, A., Heim, A., Schulz, T.F., Gunson, R., Gottlieb, D., Slobedman, B., Davison, A.J. (2020). Whole-Genome Approach to Assessing Human Cytomegalovirus Dynamics in Transplant Patients Undergoing Antiviral Therapy *Front Cell Infect Microbiol* 10,267. DOI: 10.3389/fcimb.2020.00267

Tinel, C., Devresse, A., Vermorel, A., Sauvaget, V., Marx, D., Avettand-Fenoel, V., Amrouche, L., Timsit, M.O., Snanoudj, R., Caillard, S., Moulin, B., Olagne, J., Essig, M., Gwinner, W., Naesens, M., Marquet, P., Legendre, C., Terzi, F., Rabant, M., Anglicheau, D. (2020). Development and validation of an optimized integrative model using urinary chemokines for noninvasive diagnosis of acute allograft rejection. *Am J Transplant* 20,3462-3476. DOI: 10.1111/ajt.15959

Van Loon, E., Lerut, E., de Loor, H., Kuypers, D., Emonds, M.P., Anglicheau, D., Gwinner, W., Essig, M., Marquet, P., Naesens, M. (2020). Antibody-mediated rejection with and without donor-specific anti-human leucocyte antigen antibodies: performance of the peripheral blood 8-gene expression assay. *Nephrol Dial Transplant* 35,1328-1337. DOI: 10.1093/ndt/gfaa096

Völker, L.A., Brinkkoetter, P.T., Knöbl, P.N., Krstic, M., Kaufeld, J., Menne, J., Buxhofer-Ausch, V., Miesbach, W. (2020). Treatment of acquired thrombotic thrombocytopenic purpura without plasma exchange in selected patients under caplacizumab *J Thromb Haemost* 18,3061-3066. DOI: 10.1111/jth.15045

Völker, L.A., Kaufeld, J., Miesbach, W., Brähler, S., Reinhardt, M., Kühne, L., Mühlfeld, A., Schreiber, A., Gaedeke, J., Tölle, M., Jabs, W.J., Özcan, F., Markau, S., Girndt, M., Bauer, F., Westhoff, T.H., Felten, H., Hausberg, M., Brand, M., Gerth, J., Bieringer, M., Bommer, M., Zschiedrich, S., Schneider, J., Elitok, S., Gawlik, A., Gäckler, A., Kribben, A., Schwenger, V., Schoenemarck, U., Roeder, M., Radermacher, J., Bramstedt, J., Morgner, A., Herbst, R., Harth, A., Potthoff, S.A., von Auer, C., Wendt, R., Christ, H., Brinkkoetter, P.T., Menne, J. (2020). ADAMTS13 and VWF activities guide individualized caplacizumab treatment in patients with aTTP *Blood Adv* 4,3093-3101. DOI: 10.1182/bloodadvances.2020001987

Völker, L.A., Kaufeld, J., Miesbach, W., Brähler, S., Reinhardt, M., Kühne, L., Mühlfeld, A., Schreiber, A., Gaedeke, J., Tölle, M., Jabs, W.J., Özcan, F., Markau, S., Girndt, M., Bauer, F., Westhoff, T.H., Felten, H., Hausberg, M., Brand, M., Gerth, J., Bieringer, M., Bommer, M., Zschiedrich, S., Schneider, J., Elitok, S., Gawlik, A., Gäckler, A., Kribben, A., Schwenger, V., Schoenemarck, U., Roeder, M., Radermacher, J., Bramstedt, J., Morgner, A., Herbst, R., Harth, A., Potthoff, S.A., von Auer, C., Wendt, R., Christ, H., Brinkkoetter, P.T., Menne, J. (2020). Real-world data confirm the effectiveness of caplacizumab in acquired thrombotic thrombocytopenic purpura *Blood Adv* 4,3085-3092. DOI: 10.1182/bloodadvances.2020001973

Wheeler, D.C., Stefansson, B.V., Batiushin, M., Bilchenko, O., Cherney, D.Z.I., Chertow, G.M., Douthat, W., Dwyer, J.P., Escudero, E., Peçoits-Filho, R., Furuland, H., Gorriz, J.L., Greene, T., Haller, H., Hou, F.F., Kang, S.W., Isidto, R., Khullar, D., Mark, P.B., McMurray, J.J.V., Kashiwara, N., Nowicki, M., Persson, F., Correa-Rotter, R., Rossing, P., Toto, R.D., Umanath, K., Van Bui, P., Wittmann, I., Lindberg, M., Sjöström, C.D., Langkilde, A.M., Heerspink, H.J.L. (2020). The dapagliflozin and prevention of adverse outcomes in chronic kidney disease (DAPA-CKD) trial: baseline characteristics. *Nephrol Dial Transplant* 35,1700-1711. DOI: 10.1093/ndt/gfaa234

Übersichtsarbeiten

Balzer, M.S. (2020). Molecular pathways in peritoneal fibrosis *Cell Signal* 75,109778. DOI: 10.1016/j.cellsig.2020.109778

Guo, S., Zhang, F., Chen, Y., Chen, Y., Shushakova, N., Yao, Y., Zeng, R., Li, J., Lu, X., Chen, R., Haller, H., Gueler, F., Xu, G., Rong, S. (2020). Pre-ischemic renal lavage protects against renal ischemia-reperfusion injury by attenuation of local and systemic inflammatory responses *FASEB J* 34,16307-16318. DOI: 10.1096/fj.201902943R

Limbourg, F.P. (2020). RAS-Inhibition in Zeiten der COVID-19-Pandemie - aktuelle ESH-Empfehlungen : Seminar / Hypertonie. *MMW Fortschr Med* 162,67-69. DOI: 10.1007/s15006-020-0483-y

Pradhan, P., Vijayan, V., Gueler, F., Immenschuh, S. (2020). Interplay of Heme with Macrophages in Homeostasis and Inflammation. *Int J Mol Sci* 21, DOI: 10.3390/ijms21030740

Letter

Kaufeld, J., Brinkkoetter, P.T., Schreiber, A., Jabs, W.J., Bieringer, M., Bruck, H., Menne, J., Völker, L.A. (2021). Caplacizumab: frequent local skin reactions *Ann Hematol* 100,3051-3052. DOI: 10.1007/s00277-020-04260-7

Stahl, K., Gronski, P.A., Kiyani, Y., Seeliger, B., Bertram, A., Pape, T., Welte, T., Hoepfer, M.M., Haller, H., David, S. (2020). Injury to the Endothelial Glycocalyx in Critically Ill Patients with COVID-19 *Am J Respir Crit Care Med* 202,1178-1181. DOI: 10.1164/rccm.202007-2676LE

Volkman, J., von Vietinghoff, S. (2020). Letter to the Editor. *J Leukoc Biol* 108,1707. DOI: 10.1002/JLB.3LT0720-404R

Comments

Gosch, M., Zeeh, J., Feddersen, B., Michels, G., Halek, M., Bleckwenn, M., Hauner, H., Grabenhorst, U., von Freyburg, A., Limbourg, F. (2020). Liebe Kolleginnen und Kollegen. *MMW Fortschr Med* 162,5. DOI: 10.1007/s15006-020-0452-5

Abstracts

Reinhardt, M., Kiyani, Y., Haller, H. (2020). Cell-Based C5b9-ELISA to Identify Patients with Atypical Hemolytic Uremic Syndrome. *ASN Kidney Week*, 19.-25.10.2020, Denver (Digital Meeting).

Reinhardt, M., Kiyani, Y., Haller, H. (2020). Complement activation assay in an ex-vivo microfluidic cell-culture system. *ASN Kidney Week*, 19.-25.10.2020, Denver (Digital Meeting).

sonstiges

Hirsch, M.C., Ronicke, S., Krusche, M., Wagner, A.D. (2020). Rare diseases 2030: how augmented AI will support diagnosis and treatment of rare diseases in the future. *Ann Rheum Dis* 79,740-743. DOI: 10.1136/annrheumdis-2020-217125

Habilitationen

Stahl, K. (2020). Innovative Therapieverfahren in der internistischen Intensivmedizin. Kumulative Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Promotionen

Asper, F. (2019). Indikation, Patientencharakteristika, Verfahrensmerkmale und Nebenwirkungen des Plasmaaustausches retrospektive Auswertung von 912 Behandlungen. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Beger, C. (2019). Der Einfluss der Notch-Signaltransduktion auf die Differenzierung und den Metabolismus von Makrophagen Dissertation, Medizinische Hochschule Hannover, 2020

Dumann, E. (2020). Risiko von akutem Nierenversagen und renalen Nebenwirkungen unter Behandlung mit SGLT2-Inhibitoren- Systematische Übersichtsarbeit und Meta-Analyse - Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Gellrich, F.M. (2019). Auswirkungen der mikroRNA-143-3p auf die Integrität der glomerulären Filtrationsbarriere Dissertation, Medizinische Hochschule Hannover, 2020

Heisterkamp, M. (2020). Spektrum und Dosierung harnsäuresenkender Medikamente in einer großen Kohorte von PatientInnen mit chronischer Nierenkrankheit Ergebnisse aus der Eingangsuntersuchung der German Chronic Kidney Disease Studie. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Knaup, H. (2019). Therapeutischer Plasmaaustausch als additive Behandlungsstrategie im refraktären septischen Schock. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Retzlaff, J. (2018). Therapeutische Beeinflussung von Angiotensin-2 durch Flunarizin in der Sepsis Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Rokhzan, R. (2019). High-Throughput-Messungen von endothelialer Barrierefunktion und zellulären kontraktilen Kräften. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Roncke, S. (2019). Die Wertigkeit des Diagnoseunterstützungssystems Ada DX in der Diagnosestellung seltener Erkrankungen Evaluation in einer retrospektiven Studie Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Scheffner, I. (2020). Patientenüberleben nach Nierentransplantation im Transplantationszentrum Hannover: Entwicklung prädiktiver Modelle und Ermittlung der relevanten Risikofaktoren mittels Cox proportional hazards und Random Survival Forest Analysen Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Wang, L. (2019). Molecular mechanisms of surgery associated acute kidney injury (AKI) by blood degradation products in experimental mouse models. Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Pneumologie – 6870

Originalpublikationen

Ackermann, M., Verleden, S.E., Kuehnel, M., Haverich, A., Welte, T., Laenger, F., Vanstapel, A., Werlein, C., Stark, H., Tzankov, A., Li, W.W., Li, V.W., Mentzer, S.J., Jonigk, D. (2020). Pulmonary Vascular Endothelialitis, Thrombosis, and Angiogenesis in Covid-19. *N Engl J Med* 383,120-128. DOI: 10.1056/NEJMoa2015432

Baerlecken, N., Pursche, N., Witte, T., Kniesch, K., Höpfner, M., Ernst, D., Moosig, F., Seeliger, B., Prasse, A. (2020). Presence of Antibodies Binding to Negative Elongation Factor E in Sarcoidosis *J Clin Med* 9, DOI: 10.3390/jcm9030715

Becker, T., Pich, A., Tamm, S., Hedtfeld, S., Ibrahim, M., Altmüller, J., Dalibor, N., Toliat, M.R., Janciauskiene, S., Tümmler, B., Stanke, F. (2020). Genetic information from discordant sibling pairs points to ESRP2 as a candidate trans-acting regulator of the CF modifier gene SCNN1B *Sci Rep* 10,22447. DOI: 10.1038/s41598-020-79804-y

Behr, J., Prasse, A., Wirtz, H., Koschel, D., Pittrow, D., Held, M., Klotsche, J., Andreas, S., Claussen, M., Grohe, C., Wilkens, H., Hagemeyer, L., Skowasch, D., Meyer, J.F., Kirschner, J., Gläser, S., Kahn, N., Welte, T., Neurohr, C., Schwaiblmair, M., Bahmer, T., Oqueka, T., Frankenberg, M., Kreuter, M. (2020). Survival and course of lung function in the presence or absence of antifibrotic treatment in patients with idiopathic pulmonary fibrosis: long-term results of the INSIGHTS-IPF registry *Eur Respir J* 56, DOI: 10.1183/13993003.02279-2019

Behrens, G.M.N., Cossmann, A., Stankov, M.V., Schulte, B., Streeck, H., Förster, R., Bosnjak, B., Willenzon, S., Boeck, A.L., Thu Tran, A., Thiele, T., Graalmann, T., Kayser, M.Z., Zychlinsky Scharff, A., Dopfer, C., Horke, A., Pink, I., Witte, T., Wetzke, M., Ernst, D., Jablonka, A., Happle, C. (2020). Strategic Anti-SARS-CoV-2 Serology Testing in a Low Prevalence Setting: The COVID-19 Contact (CoCo) Study in Healthcare Professionals *Infect Dis Ther* 9,837-849. DOI: 10.1007/s40121-020-00334-1

Benza, R.L., Corris, P.A., Klinger, J.R., Langleben, D., Naeije, R., Simonneau, G., Ghofrani, H.A., Jansa, P., Rosenkranz, S., Scelsi, L., Theppan, T., Raina, A., Meier, C., Busse, D., Hoeper, M.M. (2020). Identifying potential parameters associated with response to switching from a PDE5i to riociguat in RESPITE *Int J Cardiol* 317,188-192. DOI: 10.1016/j.ijcard.2020.05.044

Bormann, T., Maus, R., Stolper, J., Jonigk, D., Welte, T., Gauldie, J., Kolb, M.R., Maus, U.A. (2021). Role of the COX2-PGE2 axis in S. pneumoniae induced exacerbation of experimental fibrosis. *Am J Physiol Lung Cell Mol Physiol* 320,L377-L392. DOI: 10.1152/ajplung.00024.2020

Bosnjak, B., Stein, S.C., Willenzon, S., Cordes, A.K., Puppe, W., Bernhardt, G., Ravens, I., Ritter, C., Schultze-Florey, C.R., Gödecke, N., Martens, J., Kleine-Weber, H., Hoffmann, M., Cossmann, A., Yilmaz, M., Pink, I., Hoeper, M.M., Behrens, G.M.N., Pöhlmann, S., Blasczyk, R., Schulz, T.F., Forster, R. (2021). Low serum neutralizing anti-SARS-CoV-2 S antibody levels in mildly affected COVID-19 convalescent patients revealed by two different detection methods *Cell Mol Immunol* 18,936-944. DOI: 10.1038/s41423-020-00573-9

Brown, K.K., Martinez, F.J., Walsh, S.L.F., Thannickal, V.J., Prasse, A., Schlenker-Herceg, R., Goeldner, R.G., Clerisme-Beaty, E., Tetzlaff, K., Cottin, V., Wells, A.U. (2020). The natural history of progressive fibrosing interstitial lung diseases *Eur Respir J* 55, DOI: 10.1183/13993003.00085-2020

Burney, P., Patel, J., Minelli, C., Gnatiuc, L., Amaral, A.F.S., Kocabas, A., Cherkaski, H.H., Gulsvik, A., Nielsen, R., Bateman, E., Jithoo, A., Mortimer, K., Sooronbaev, T.M., Lawin, H., Nejjar, C., Elbiaze, M., El Rhazi, K., Zheng, J.P., Ran, P., Welte, T., Obaseki, D., Erhabor, G., Elsony, A., Osman, N.B., Ahmed, R., Nizankowska-Mogilnicka, E., Mejza, F., Mannino, D.M., Barbara, C., Wouters, E.F.M., Idolor, L.F., Loh, L.C., Rashid, A., Juvekar, S., Gislason, T., Al Ghobain, M., Studnicka, M., Harrabi, I., Denguezli, M., Koul, P.A., Jenkins, C., Marks, G., Jogi, R., Hafizi, H., Janson, C., Tan, W.C., Aquart-Stewart, A., Mbatchou, B., Nafees, A., Gunasekera, K., Seemungal, T., Padukudru Anand, M., Enright, P., Vollmer, W.M., Blangiardo, M., Elfadaly, F.G., Buist, A.S. (2020). Prevalence and Population Attributable Risk for Chronic Airflow Obstruction in a Large Multinational Study. *Am J Respir Crit Care Med* 203,1353-1365. DOI: 10.1164/rccm.202005-1990OC

Caliskan, C., Seeliger, B., Jäger, B., Fuge, J., Welte, T., Terwolbeck, O., Freise, J., van Moorsel, C.H.M., Zhang, Y., Prasse, A. (2020). Genetic Variation in CCL18 Gene Influences CCL18 Expression and Correlates with Survival in Idiopathic Pulmonary Fibrosis-Part B. *J Clin Med* 9, DOI: 10.3390/jcm9061993

Carleo, A., Landi, C., Prasse, A., Bergantini, L., D'Alessandro, M., Cameli, P., Janciauskiene, S., Rottoli, P., Bini, L., Bargagli, E. (2020). Proteomic characterization of idiopathic pulmonary fibrosis patients: stable versus acute exacerbation *Monaldi Arch Chest Dis* 90, DOI: 10.4081/monaldi.2020.1231

- Czerner, C.P., Schoenfeld, C., Cebotari, S., Renne, J., Kaireit, T.F., Winther, H.B., Pöhler, G.H., Olsson, K.M., Hoepfer, M.M., Wacker, F., Vogel-Claussen, J. (2020). Perioperative CTEPH patient monitoring with 2D phase-contrast MRI reflects clinical, cardiac and pulmonary perfusion changes after pulmonary endarterectomy *PLoS One* *15*,e0238171. DOI: 10.1371/journal.pone.0238171
- Dahlmann, J., Sahabian, A., Drick, N., Haase, A., Göhring, G., Lachmann, N., Ringshausen, F.C., Welte, T., Martin, U., Olmer, R. (2020). Generation of two hiPSC lines (MHHi016-A, MHHi016-B) from a primary ciliary dyskinesia patient carrying a homozygous 5 bp duplication (c.248_252dup (p.Gly85Cysfs*11)) in exon 1 of the CCNO gene. *Stem Cell Res* *46*,101850. DOI: 10.1016/j.scr.2020.101850
- d'Alessandro, M., Bergantini, L., Perrone, A., Cameli, P., Cameli, M., Prasse, A., Plataroti, D., Sestini, P., Bargagli, E. (2020). Serial investigation of Angiotensin-Converting Enzyme in sarcoidosis patients treated with Angiotensin-Converting Enzyme Inhibitor *Eur J Intern Med* *78*,58-62. DOI: 10.1016/j.ejim.2020.04.006
- Derlin, T., Jaeger, B., Jonigk, D., Apel, R., Freise, J., Shin, H.O., Weiberg, D., Warnecke, G., Ross, T.L., Wester, H.J., Seeliger, B., Welte, T., Bengel, F.M., Prasse, A. (2021). Clinical Molecular Imaging of Pulmonary CXCR4 Expression to Predict Outcome of Pirfenidone Treatment in Idiopathic Pulmonary Fibrosis *Chest* *159*,1094-1106. DOI: 10.1016/j.chest.2020.08.2043
- Drick, N., Dahlmann, J., Sahabian, A., Haase, A., Göhring, G., Lachmann, N., Ringshausen, F.C., Welte, T., Martin, U., Olmer, R. (2020). Generation of two human induced pluripotent stem cell lines (MHHi017-A, MHHi017-B) from a patient with primary ciliary dyskinesia carrying a homozygous mutation (c.7915C > T [p.Arg2639*]) in the DNAH5 gene. *Stem Cell Res* *46*,101848. DOI: 10.1016/j.scr.2020.101848
- Drick, N., Milger, K., Seeliger, B., Fuge, J., Korn, S., Buhl, R., Schuhmann, M., Herth, F., Kendziora, B., Behr, J., Kneidinger, N., Bergmann, K.C., Taube, C., Welte, T., Suhling, H. (2020). Switch from IL-5 to IL-5-Receptor alpha Antibody Treatment in Severe Eosinophilic Asthma. *J Asthma Allergy* *13*,605-614. DOI: 10.2147/JAA.S270298
- Greer, M., Welte, T. (2020). Chronic Obstructive Pulmonary Disease and Lung Transplantation *Semin Respir Crit Care Med* *41*,862-873. DOI: 10.1055/s-0040-1714250
- Greulich, T., Altraja, A., Barrecheguren, M., Bals, R., Chlumsky, J., Chorostowska-Wynimko, J., Clarenbach, C., Corda, L., Corsico, A.G., Ferrarotti, I., Esquinas, C., Gouder, C., Hecimovic, A., Ilic, A., Ivanov, Y., Janciauskiene, S., Janssens, W., Kohler, M., Krams, A., Lara, B., Mahadeva, R., McElvaney, G., Mornex, J.F., O'Hara, K., Parr, D., Piitulainen, E., Schmid-Scherzer, K., Seersholm, N., Stockley, R.A., Stolk, J., Sucena, M., Tanash, H., Turner, A., Ulmeanu, R., Wilkens, M., Yorgancioglu, A., Zaharie, A., Miravittles, M. (2020). Protocol for the EARCO Registry: a pan-European observational study in patients with alpha1-antitrypsin deficiency *ERJ Open Res* *6*,DOI: 10.1183/23120541.00181-2019
- Hacker, K.S., Jansson, K., Pichler, J., Salman, J., Avsar, M., Siemeni, T., Knöfel, A.K., Hoffler, K., Gottlieb, J., Frühauf, J., Werner, M., Poyanmehr, R., Jonigk, D., Balzer, M.S., Hewicker-Trautwein, M., Haverich, A., Sommer, W., Warnecke, G. (2021). Delayed non-myeloablative irradiation to induce long-term allograft acceptance in a large animal lung transplantation model. *Transpl Immunol* *65*,101350. DOI: 10.1016/j.trim.2020.101350
- Harbaum, L., Fuge, J., Kamp, J.C., Hennigs, J.K., Simon, M., Sinning, C., Oqueka, T., Grimminger, J., Olsson, K.M., Hoepfer, M.M., Klose, H. (2020). Blood carbon dioxide tension and risk in pulmonary arterial hypertension. *Int J Cardiol* *318*,131-137. DOI: 10.1016/j.ijcard.2020.06.069
- Harrison, T., Canonica, G.W., Chupp, G., Lee, J., Schleich, F., Welte, T., Valero, A., Gemzoe, K., Maxwell, A., Joksaite, S., Yang, S., Howarth, P., Van Dyke, M.K. (2020). Real-world mepolizumab in the prospective severe asthma REALITI-A study: initial analysis *Eur Respir J* *56*,DOI: 10.1183/13993003.00151-2020
- Helmke, A., Hüsing, A.M., Gaedcke, S., Brauns, N., Balzer, M.S., Reinhardt, M., Hiss, M., Shushakova, N., de Luca, D., Prinz, I., Haller, H., von Vietinghoff, S. (2021). Peritoneal dialysate-range hypertonic glucose promotes T-cell IL-17 production that induces mesothelial inflammation *Eur J Immunol* *51*,354-367. DOI: 10.1002/eji.202048733
- Hoepfer, M.M., Gomez Sanchez, M.A., Humbert, M., Pittrow, D., Simonneau, G., Gall, H., Grünig, E., Klose, H., Halank, M., Langleben, D., Snijder, R.J., Escribano Subias, P., Mielniczuk, L.M., Lange, T.J., Vachieri, J.L., Wirtz, H., Helmersen, D.S., Tsangaris, I., Barbera, J.A., Pepke-Zaba, J., Boonstra, A., Rosenkranz, S., Ulrich, S., Steringer-Mascherbauer, R., Delcroix, M., Jansa, P., Simkova, I., Giannakoulas, G., Klotsche, J., Williams, E., Meier, C., Ghofrani, H.A., Collaborators list. (2020). Riociguat treatment in patients with pulmonary arterial hypertension: Final safety data from the EXPERT registry *Respir Med* *177*,106241. DOI: 10.1016/j.rmed.2020.106241
- Hoepfer, M.M., Pausch, C., Grünig, E., Klose, H., Staehler, G., Huscher, D., Pittrow, D., Olsson, K.M., Vizza, C.D., Gall, H., Benjamin, N., Distler, O., Opitz, C., Gibbs, J.S.R., Delcroix, M., Ghofrani, H.A., Rosenkranz, S., Ewert, R., Kaemmerer, H., Lange, T.J., Kabitz, H.J., Skowasch, D., Skride, A., Jureviciene, E., Paleviciute, E., Miliauskas, S., Claussen, M., Behr, J., Milger, K., Halank, M., Wilkens, H., Wirtz, H., Pfeuffer-Jovic, E., Harbaum, L., Scholtz, W., Dumitrescu, D., Bruch, L., Coghlan, G., Neurohr, C., Tsangaris, I., Gorenflo, M., Scelsi, L.,

- Vonk-Noordegraaf, A., Ulrich, S., Held, M. (2020). Idiopathic pulmonary arterial hypertension phenotypes determined by cluster analysis from the COMPERA registry *J Heart Lung Transplant* *39*,1435-1444. DOI: 10.1016/j.healun.2020.09.011
- Hollwedel, F.D., Maus, R., Stolper, J., Khan, A., Stocker, B.L., Timmer, M.S.M., Lu, X., Pich, A., Welte, T., Yamasaki, S., Maus, U.A. (2020). Overexpression of Macrophage-Inducible C-Type Lectin Mincle Aggravates Proinflammatory Responses to *Streptococcus pneumoniae* with Fatal Outcome in Mice. *J Immunol* *205*,3390-3399. DOI: 10.4049/jimmunol.2000509
- Holz, O., DeLuca, D.S., Roepcke, S., Illig, T., Weinberger, K.M., Schudt, C., Hohlfeld, J.M. (2020). Smokers with COPD Show a Shift in Energy and Nitrogen Metabolism at Rest and During Exercise *Int J Chron Obstruct Pulmon Dis* *15*,1-13. DOI: 10.2147/COPD.S217474
- Huppertz, C., Jäger, B., Wieczorek, G., Engelhard, P., Oliver, S.J., Bauernfeind, F.G., Littlewood-Evans, A., Welte, T., Hornung, V., Prasse, A. (2020). The NLRP3 inflammasome pathway is activated in sarcoidosis and involved in granuloma formation *Eur Respir J* *55*,DOI: 10.1183/13993003.00119-2019
- Husain-Syed, F., Vadasz, I., Wilhelm, J., Walmrath, H.D., Seeger, W., Birk, H.W., Jennert, B., Dietrich, H., Herold, S., Trauth, J., Tello, K., Sander, M., Morty, R.E., Slanina, H., Schüttler, C.G., Ziebuhr, J., Kassoumeh, S., Ronco, C., Ferrari, F., Warnatz, K., Stahl, K., Seeliger, B., Hoepfer, M.M., Welte, T., David, S. (2021). Immunoglobulin Deficiency as an Indicator of Disease Severity in Patients with COVID-19 *Am J Physiol Lung Cell Mol Physiol* *320*,L590-L599. DOI: 10.1152/ajplung.00359.2020
- Idowu, T.O., Etzrodt, V., Seeliger, B., Bolanos-Palmieri, P., Thamm, K., Haller, H., David, S. (2020). Identification of specific Tie2 cleavage sites and therapeutic modulation in experimental sepsis. *Elife* *9*,e59520. DOI: 10.7554/eLife.59520
- Ius, F., Aburahma, K., Boethig, D., Salman, J., Sommer, W., Draeger, H., Poyanmehr, R., Avsar, M., Siemeni, T., Bobylev, D., Optenhoefel, J., Wiesner, O., Greer, M., Schwerk, N., Hoepfer, M.M., Welte, T., Haverich, A., Kuehn, C., Warnecke, G., Gottlieb, J., Tudorache, I. (2020). Long-term outcomes after intraoperative extracorporeal membrane oxygenation during lung transplantation *J Heart Lung Transplant* *39*,915-925. DOI: 10.1016/j.healun.2020.04.020
- Janke, F., Bozorgmehr, F., Wrenger, S., Dietz, S., Heussel, C.P., Heussel, G., Silva, C.F., Rheinheimer, S., Feisst, M., Thomas, M., Golpon, H., Günther, A., Sültmann, H., Muley, T., Janciauskiene, S., Meister, M., Schneider, M.A. (2020). Novel Liquid Biomarker Panels for a Very Early Response Capturing of NSCLC Therapies in Advanced Stages Cancers (Basel) *12*,DOI: 10.3390/cancers12040954
- Jarosch, I., Schneeberger, T., Gloeckl, R., Kreuter, M., Frankenberger, M., Neurohr, C., Prasse, A., Freise, J., Behr, J., Hitzl, W., Koczulla, A.R., Kenn, K. (2020). Short-Term Effects of Comprehensive Pulmonary Rehabilitation and its Maintenance in Patients with Idiopathic Pulmonary Fibrosis: A Randomized Controlled Trial *J Clin Med* *9*,DOI: 10.3390/jcm9051567
- Jendry, P., Schulz, C., Twele, F., Meller, S., von Köckritz-Blickwede, M., Osterhaus, A.D.M.E., Ebbers, J., Pilchova, V., Pink, I., Welte, T., Manns, M.P., Fathi, A., Ernst, C., Addo, M.M., Schalke, E., Volk, H.A. (2020). Scent dog identification of samples from COVID-19 patients - a pilot study. *BMC Infect Dis* *20*,536. DOI: 10.1186/s12879-020-05281-3
- Kaemmerer, H., Gorenflo, M., Huscher, D., Pittrow, D., Apitz, C., Baumgartner, H., Berger, F., Bruch, L., Brunner, E., Budts, W., Claussen, M., Coghlan, G., Dahnert, I., D'Alto, M., Delcroix, M., Distler, O., Dittrich, S., Dumitrescu, D., Ewert, R., Faehling, M., Germund, I., Ghofrani, H.A., Grohe, C., Grossekreymborg, K., Halank, M., Hansmann, G., Harzheim, D., Nemes, A., Havasi, K., Held, M., Hoepfer, M.M., Hofbeck, M., Hohenfrost-Schmidt, W., Jureviciene, E., Gumbiene, L., Kabitz, H.J., Klose, H., Kohler, T., Konstantinides, S., Koestenberg, M., Kozlik-Feldmann, R., Kramer, H.H., Kropf-Santhen, C., Lammers, A., Lange, T., Meyn, P., Miera, O., Milger-Kneidinger, K., Neidenbach, R., Neurohr, C., Opitz, C., Perings, C., Remppis, B.A., Riemekasten, G., Scelsi, L., Scholtz, W., Simkova, I., Skowasch, D., Skride, A., Stahler, G., Stiller, B., Tsangaris, I., Vizza, C.D., Vonk Noordegraaf, A., Wilkens, H., Wirtz, H., Diller, G.P., Grunig, E., Rosenkranz, S. (2020). Pulmonary Hypertension in Adults with Congenital Heart Disease: Real-World Data from the International COMPERA-CHD Registry. *J Clin Med* *9*,E1456 [pii]. DOI: 10.3390/jcm9051456
- Kamp, J.C., von Kaisenberg, C., Greve, S., Winter, L., Park, D.H., Fuge, J., Kühn, C., Hoepfer, M.M., Olsson, K.M. (2021). Pregnancy in pulmonary arterial hypertension: Midterm outcomes of mothers and offspring *J Heart Lung Transplant* *40*,229-233. DOI: 10.1016/j.healun.2020.12.002
- Kanwar, M.K., Gomberg-Maitland, M., Hoepfer, M., Pausch, C., Pittrow, D., Strange, G., Anderson, J.J., Zhao, C., Scott, J.V., Druzdzel, M.J., Kraisangka, J., Lohmueller, L., Antaki, J., Benza, R.L. (2020). Risk stratification in pulmonary arterial hypertension using Bayesian analysis. *Eur Respir J* *56*,2000008 [pii]. DOI: 10.1183/13993003.00008
- Kauffmann-Guerrero, D., Tufman, A., Kahnert, K., Bollmann, B.A., Reu, S., Syunyaeva, Z., Schneider, C., Manapov, F., Huber, R.M., Golpon, H. (2020). Response to Checkpoint Inhibition in Non-Small Cell Lung Cancer with Molecular Driver Alterations *Oncol Res Treat* *43*,289-298. DOI: 10.1159/000506842

- Kayser, M.Z., Valtin, C., Greer, M., Karow, B., Fuge, J., Gottlieb, J. (2020). Video Consultation During the COVID-19 Pandemic: A Single Center's Experience with Lung Transplant Recipients Telemed *J E Health* DOI: 10.1089/tmj.2020.0170
- Kern, A.L., Gutberlet, M., Moher Alsady, T., Welte, T., Wacker, F., Hohlfeld, J.M., Vogel-Claussen, J. (2020). Investigating short-time diffusion of hyperpolarized (¹²⁹Xe) in lung air spaces and tissue: A feasibility study in chronic obstructive pulmonary disease patients *Magn Reson Med* *84*,2133-2146. DOI: 10.1002/mrm.28264
- Khan, A., Hollwedel, F., Maus, U.A., Stocker, B.L., Timmer, M.S.M. (2020). Synthesis of alpha-Glucosyl Diacylglycerides as potential adjuvants for *Streptococcus pneumoniae* vaccines *Carbohydr Res* *489*,107951. DOI: 10.1016/j.carres.2020.107951
- Lasch, F., Karch, A., Koch, A., Derlin, T., Voskrebenez, A., Alsady, T.M., Hoepfer, M.M., Gall, H., Roller, F., Harth, S., Steiner, D., Krombach, G., Ghofrani, H.A., Rengier, F., Heussel, C.P., Grünig, E., Beitzke, D., Hacker, M., Lang, I.M., Behr, J., Bartenstein, P., Dinkel, J., Schmidt, K.H., Kreitner, K.F., Frauenfelder, T., Ulrich, S., Hamer, O.W., Pfeifer, M., Johns, C.S., Kiely, D.G., Swift, A.J., Wild, J., Vogel-Claussen, J. (2020). Comparison of MRI and VQ-SPECT as a Screening Test for Patients With Suspected CTEPH: CHANGE-MRI Study Design and Rationale *Front Cardiovasc Med* *7*,51. DOI: 10.3389/fcvm.2020.00051
- Leuschner, G., Klotsche, J., Kreuter, M., Prasse, A., Wirtz, H., Pittrow, D., Frankenberger, M., Behr, J., Kneidinger, N., INSIGHTS-IPF Registry Group. (2020). Idiopathic Pulmonary Fibrosis in Elderly Patients: Analysis of the INSIGHTS-IPF Observational Study. *Front Med (Lausanne)* *7*,601279. DOI: 10.3389/fmed.2020.601279
- Liu, B., Lindner, P., Jirno, A.C., Maus, U., Illig, T., DeLuca, D.S. (2020). A comparison of curated gene sets versus transcriptomics-derived gene signatures for detecting pathway activation in immune cells. *BMC Bioinformatics* *21*,28. DOI: 10.1186/s12859-020-3366-4
- Lutter, J.I., Jörres, R.A., Welte, T., Watz, H., Waschki, B., Alter, P., Trudzinski, F.C., Ohlander, J., Behr, J., Bals, R., Studnicka, M., Holle, R., Vogelmeier, C.F., Kahnert, K. (2020). Impact of Education on COPD Severity and All-Cause Mortality in Lifetime Never-Smokers and Long-time Ex-Smokers: Results of the COSYCONET Cohort. *Int J Chron Obstruct Pulmon Dis* *15*,2787-2798. DOI: 10.2147/COPD.S273839
- Maschke, S.K., Werncke, T., Becker, L.S., Dewald, C.L.A., Meine, T.C., Olsson, K.M., Fuge, J., Hoepfer, M.M., Wacker, F.K., Meyer, B.C., Hinrichs, J.B. (2020). The Value of C-Arm Computed Tomography in Addition to Conventional Digital Subtraction Angiography in the Diagnostic Work-up of Patients with Suspected Chronic Thromboembolic Pulmonary Hypertension: An Update of 300 Patients *Acad Radiol* DOI: 10.1016/j.acra.2020.06.039
- Matamala, N., Gomez-Mariano, G., Perez, J.A., Baladron, B., Torres-Duran, M., Michel, F.J., Saez, R., Hernandez-Perez, J.M., Belmonte, I., Rodriguez-Frias, F., Blanco, I., Strnad, P., Janciauskiene, S., Martinez-Delgado, B. (2020). New cis-Acting Variants in PI³S Background Produce Null Phenotypes Causing Alpha-1 Antitrypsin Deficiency *Am J Respir Cell Mol Biol* *63*,444-451. DOI: 10.1165/rcmb.2020-0021OC
- Michel, S., Witt, C., Gottlieb, J., Aigner, C. (2021). Impact of COVID-19 on Lung Transplant Activity in Germany-A Cross-Sectional Survey *Thorac Cardiovasc Surg* *69*,92-94. DOI: 10.1055/s-0040-1715436
- Minso, R., Schulz, A., Dopfer, C., Alfeis, N., Barneveld, A.V., Makartian-Gyulumyan, L., Hansen, G., Junge, S., Müller, C., Ringshausen, F.C.C., Sauer-Heilborn, A., Stanke, F., Stolpe, C., Tamm, S., Welte, T., Dittrich, A.M., Tümmler, B. (2020). Intestinal current measurement and nasal potential difference to make a diagnosis of cases with inconclusive CFTR genetics and sweat test *BMJ Open Respir Res* *7*,DOI: 10.1136/bmjresp-2020-000736
- Möhn, N., Mahjoub, S., Gutzmer, R., Satzger, I., Beutel, G., Ivanyi, P., Golpon, H., Wattjes, M.P., Stangel, M., Skripuletz, T. (2020). Diagnosis and Differential Diagnosis of Neurological Adverse Events during Immune Checkpoint Inhibitor Therapy *J Oncol* *2020*,DOI: 10.1155/2020/8865054
- Mole, S., Harry, A., Fowler, A., Hotee, S., Warburton, J., Waite, S., Beerah, M., Behm, D.J., Badorrek, P., Müller, M., Faulenbach, C., Lazaar, A.L., Hohlfeld, J.M. (2020). Investigating the effect of TRPV4 inhibition on pulmonary-vascular barrier permeability following segmental endotoxin challenge *Pulm Pharmacol Ther* *64*,101977. DOI: 10.1016/j.pupt.2020.101977
- Moye, S., Bormann, T., Maus, R., Sparwasser, T., Sandrock, I., Prinz, I., Warnecke, G., Welte, T., Gaudie, J., Kolb, M., Maus, U.A. (2020). Regulatory T Cells Limit Pneumococcus-Induced Exacerbation of Lung Fibrosis in Mice. *J Immunol* *204*,2429-2438. DOI: 10.4049/jimmunol.1900980
- Mümmeler, C., Munker, D., Barnikel, M., Veit, T., Kayser, M., Welte, T., Behr, J., Kneidinger, N., Suhling, H., Milger, K. (2021). Dupilumab Improves Asthma Control and Lung Function in Patients with Insufficient Outcome During Previous Antibody Therapy *J Allergy Clin Immunol Pract* *9*,1177-1185.e4. DOI: 10.1016/j.jaip.2020.09.014

- Neubert, L., Borchert, P., Stark, H., Hoefler, A., Vogel-Claussen, J., Warnecke, G., Eubel, H., Kuenzler, P., Kreipe, H.H., Hoeper, M.M., Kuehnel, M., Jonigk, D. (2020).Molecular Profiling of Vascular Remodeling in Chronic Pulmonary Disease. *Am J Pathol* *190*,1382-1396. DOI: 10.1016/j.ajpath.2020.03.008
- Odak, I., Barros-Martins, J., Bosnjak, B., Stahl, K., David, S., Wiesner, O., Busch, M., Hoeper, M.M., Pink, I., Welte, T., Cornberg, M., Stoll, M., Goudeva, L., Blasczyk, R., Ganser, A., Prinz, I., Förster, R., Koenecke, C., Schultze-Florey, C.R. (2020).Reappearance of effector T cells is associated with recovery from COVID-19 *EBioMedicine* *57*,102885. DOI: 10.1016/j.ebiom.2020.102885
- Panettieri, R.A.,Jr, Welte, T., Shenoy, K.V., Korn, S., Jandl, M., Kerwin, E.M., Feijoo, R., Barker, P., Olsson, R.F., Martin, U.J., SOLANA Study Investigators. (2020).Onset of Effect, Changes in Airflow Obstruction and Lung Volume, and Health-Related Quality of Life Improvements with Benralizumab for Patients with Severe Eosinophilic Asthma: Phase IIIb Randomized, Controlled Trial (SOLANA) *J Asthma Allergy* *13*,115-126. DOI: 10.2147/JAA.S240044
- Pöhler, G.H., Klimes, F., Behrendt, L., Voskrebenev, A., Gonzalez, C.C., Wacker, F., Hohlfeld, J.M., Vogel-Claussen, J. (2021).Repeatability of Phase-Resolved Functional Lung (PREFUL)-MRI Ventilation and Perfusion Parameters in Healthy Subjects and COPD Patients *J Magn Reson Imaging* *53*,915-927. DOI: 10.1002/jmri.27385
- Pöhler, G.H., Klimes, F., Voskrebenev, A., Behrendt, L., Czerner, C., Gutberlet, M., Cebotari, S., Ius, F., Fegbeutel, C., Schoenfeld, C., Kaireit, T.F., Hauck, E.F., Olsson, K.M., Hoeper, M.M., Wacker, F., Vogel-Claussen, J. (2020).Chronic Thromboembolic Pulmonary Hypertension Perioperative Monitoring Using Phase-Resolved Functional Lung (PREFUL)-MRI *J Magn Reson Imaging* *52*,610-619. DOI: 10.1002/jmri.27097
- Poole, S., Townsend, J., Wertheim, H., Kidd, S.P., Welte, T., Schuetz, P., Luyt, C.E., Beishuizen, A., Jensen, J.S., Del Castillo, J.G., Plebani, M., Saeed, K. (2021).How are rapid diagnostic tests for infectious diseases used in clinical practice: a global survey by the International Society of Antimicrobial Chemotherapy (ISAC). *Eur J Clin Microbiol Infect Dis* *40*,429-434. DOI: 10.1007/s10096-020-04031-2
- Rosenkranz, S., Howard, L.S., Gombert-Maitland, M., Hoeper, M.M. (2020).Systemic Consequences of Pulmonary Hypertension and Right-Sided Heart Failure. *Circulation* *141*,678-693. DOI: 10.1161/CIRCULATIONAHA.116.022362
- Sahabian, A., von Schlehdorn, L., Drick, N., Pink, I., Dahlmann, J., Haase, A., Göhring, G., Welte, T., Martin, U., Ringshausen, F.C., Olmer, R. (2020).Generation of two hiPSC clones (MHHi019-A, MHHi019-B) from a primary ciliary dyskinesia patient carrying a homozygous deletion in the NME5 gene (c.415delA (p.Ile139Tyrfs*8)). *Stem Cell Res* *48*,101988. DOI: 10.1016/j.scr.2020.101988
- Schneider, C.V., Hamesch, K., Gross, A., Mandorfer, M., Moeller, L.S., Pereira, V., Pons, M., Kuca, P., Reichert, M.C., Benini, F., Burbaum, B., Voss, J., Gutberlet, M., Woditsch, V., Lindhauer, C., Fromme, M., Kümpers, J., Bewersdorf, L., Schaefer, B., Eslam, M., Bals, R., Janciauskiene, S., Carvao, J., Neureiter, D., Zhou, B., Wöran, K., Bantel, H., Geier, A., Dirrichs, T., Stickel, F., Teumer, A., Verbeek, J., Nevens, F., Govaere, O., Krawczyk, M., Roskams, T., Haybaeck, J., Lurje, G., Chorostowska-Wynimko, J., Genesca, J., Reiberger, T., Lammert, F., Krag, A., George, J., Anstee, Q.M., Trauner, M., Datz, C., Gaisa, N.T., Denk, H., Trautwein, C., Aigner, E., Strnad, P., European Alpha-1 Liver Study Group. (2020).Liver Phenotypes of European Adults Heterozygous or Homozygous for Pi *Z Variant of AAT (Pi *MZ vs Pi *ZZ genotype) and Noncarriers *Gastroenterology* *159*,534. DOI: 10.1053/j.gastro.2020.04.058
- Schröder, S., Beller, J., Golpon, H., Geyer, S. (2020).Are there social gradients in the occurrence of lung cancer and in the survival of lung cancer patients? Findings from an observational study using German claims data of Lower Saxony. *BMJ Open* *10*,e036506. DOI: 10.1136/bmjopen-2019-036506
- Schulz, O., Wiesner, O., Welte, T., Bollmann, B.A., Suhling, H., Hoeper, M.M., Busch, M. (2020).Enoximone in status asthmaticus *ERJ Open Res* *6*,DOI: 10.1183/23120541.00367-2019
- Schwarz, N., Tumpara, S., Wrenger, S., Ercetin, E., Hamacher, J., Welte, T., Janciauskiene, S. (2020).Alpha1-antitrypsin protects lung cancer cells from staurosporine-induced apoptosis: the role of bacterial lipopolysaccharide. *Sci Rep* *10*,9563. DOI: 10.1038/s41598-020-66825-w
- Sieweke, J.T., Akin, M., Stetskamp, S., Riehle, C., Jonigk, D., Flierl, U., Pfeffer, T.J., Hirsch, V., Dutzmann, J., Hoeper, M.M., Kühn, C., Bauersachs, J., Schäfer, A. (2020).Mechanical circulatory support in refractory cardiogenic shock due to influenza virus-related myocarditis *Eur Respir J* *56*,2000925. DOI: 10.1183/13993003.00925-2020
- Sitbon, O., Chin, K.M., Channick, R.N., Benza, R.L., Di Scala, L., Gaine, S., Ghofrani, H.A., Lang, I.M., McLaughlin, V.V., Preiss, R., Rubin, L.J., Simonneau, G., Tapson, V.F., Galie, N., Hoeper, M.M. (2020).Risk assessment in pulmonary arterial hypertension: Insights from the GRIPHON study. *J Heart Lung Transplant* *39*,300-309. DOI: 10.1016/j.healun.2019.12.013
- Smits, J.M., Gottlieb, J., Verschuuren, E., Evrard, P., Hoek, R., Knoop, C., Lang, G., Kwakkel-van Erp, J.M., Vos, R., Verleden, G., Rondelet, B., Hoefler, D., Langer, F., Schramm, R., Hoetzenecker, K., van Kessel, D., Luijk, B., Seghers, L., Deuse, T., Buhl, R., Witt, C., Strelniece, A.,

- Green, D., de Vries, E., Laufer, G., Van Raemdonck, D. (2020). Impact of donor lung quality on post-transplant recipient outcome in the Lung Allocation Score era in Eurotransplant - a historical prospective study *Transpl Int* *33*,544-554. DOI: 10.1111/tri.13582
- Sogkas, G., Hirsch, S., Olsson, K.M., Hinrichs, J.B., Thiele, T., Seeliger, T., Skripuletz, T., Schmidt, R.E., Witte, T., Jablonka, A., Ernst, D. (2020). Lung Involvement in Primary Sjogren's Syndrome-An Under-Diagnosed Entity *Front Med (Lausanne)* *7*,332. DOI: 10.3389/fmed.2020.00332
- Stahl, K., Bikker, R., Seeliger, B., Schmidt, J.J., Schenk, H., Schmidt, B.M.W., Welte, T., Haller, H., Hoeper, M.M., Brand, K., David, S. (2021). Effect of Therapeutic Plasma Exchange on Immunoglobulin Deficiency in Early and Severe Septic Shock *J Intensive Care Med* *36*,456. DOI: 10.1177/0885066620965169
- Stahl, K., Busch, M., Fuge, J., Schneider, A., Manns, M.P., Seeliger, B., Schmidt, J.J., Wiesner, O., Schmidt, B.M.W., Taubert, R., Vondran, F.W.R., Hoeper, M.M., David, S. (2020). Therapeutic plasma exchange in acute on chronic liver failure *J Clin Apher* *35*,316-327. DOI: 10.1002/jca.21799
- Stahl, K., Schmidt, B.M.W., Hoeper, M.M., Skripuletz, T., Möhn, N., Beutel, G., Eder, M., Welte, T., Ganser, A., Falk, C.S., Koenecke, C., David, S. (2020). Extracorporeal cytokine removal in severe CAR-T cell associated cytokine release syndrome *J Crit Care* *57*,124-129. DOI: 10.1016/j.jcrc.2020.02.010
- Stahl, K., Schmidt, J.J., Seeliger, B., Schmidt, B.M.W., Welte, T., Haller, H., Hoeper, M.M., Budde, U., Bode, C., David, S. (2020). Effect of therapeutic plasma exchange on endothelial activation and coagulation-related parameters in septic shock *Crit Care* *24*,71. DOI: 10.1186/s13054-020-2799-5
- Suarez, N.M., Blyth, E., Li, K., Ganzenmueller, T., Camiolo, S., Avdic, S., Withers, B., Linnenweber-Held, S., Gwinner, W., Dhingra, A., Heim, A., Schulz, T.F., Gunson, R., Gottlieb, D., Slobodman, B., Davison, A.J. (2020). Whole-Genome Approach to Assessing Human Cytomegalovirus Dynamics in Transplant Patients Undergoing Antiviral Therapy *Front Cell Infect Microbiol* *10*,267. DOI: 10.3389/fcimb.2020.00267
- Tetzlaff, F., Epping, J., Golpon, H., Tetzlaff, J. (2020). Compression, expansion, or maybe both? Growing inequalities in lung cancer in Germany *PLoS One* *15*,e0242433. DOI: 10.1371/journal.pone.0242433
- Trudzinski, F.C., Jörres, R.A., Alter, P., Kahnert, K., Waschki, B., Herr, C., Kellerer, C., Omlor, A., Vogelmeier, C.F., Fährdrich, S., Watz, H., Welte, T., Jany, B., Söhler, S., Biertz, F., Herth, F., Kauczor, H.U., Bals, R., COSYCONET consortium. (2020). Associations of oxygenated hemoglobin with disease burden and prognosis in stable COPD: Results from COSYCONET. *Sci Rep* *10*,10544. DOI: 10.1038/s41598-020-67197-x
- Tumpara, S., Martinez-Delgado, B., Gomez-Mariano, G., Liu, B., DeLuca, D.S., Korenbaum, E., Jonigk, D., Jugert, F., Wurm, F.M., Wurm, M.J., Welte, T., Janciauskiene, S. (2020). The Delivery of alpha1-Antitrypsin Therapy Through Transepidermal Route: Worthwhile to Explore *Front Pharmacol* *11*,983. DOI: 10.3389/fphar.2020.00983
- van de Ven, A.A.J.M., Alfaro, T.M., Robinson, A., Baumann, U., Bergeron, A., Burns, S.O., Condliffe, A.M., Fevang, B., Gennery, A.R., Haerynck, F., Jacob, J., Jolles, S., Malphettes, M., Meignin, V., Milota, T., van Montfrans, J., Prasse, A., Quinti, I., Renzoni, E., Stolz, D., Warnatz, K., Hurst, J.R. (2020). Managing Granulomatous-Lymphocytic Interstitial Lung Disease in Common Variable Immunodeficiency Disorders: e-GLILDnet International Clinicians Survey *Front Immunol* *11*,606333. DOI: 10.3389/fimmu.2020.606333
- van Ingen, J., Aliberti, S., Andrejak, C., Chalmers, J.D., Codecasa, L.R., Daley, C.L., Hasegawa, N., Griffith, D.E., Hoefsloot, W., Huitt, G., Jarand, J., Jhun, B.W., Loebinger, M.R., Marras, T.K., Morimoto, K., Polverino, E., Ringshausen, F.C., Santin, M., Thomson, R., Wagner, D., Wallace, R.J., Winthrop, K.L., Yim, J.J., NTM-NET. (2021). Management of drug toxicity in *M. avium* complex pulmonary disease - an expert panel survey *Clin Infect Dis* *73*,e256-e259. DOI: 10.1093/cid/ciaa1361
- Veith, M., Tüffers, J., Peychev, E., Klemmer, A., Kotke, V., Janciauskiene, S., Wilhelm, S., Bals, R., Koczulla, A.R., Vogelmeier, C.F., Greulich, T. (2020). The Distribution of Alpha-1 Antitrypsin Genotypes Between Patients with COPD/Emphysema, Asthma and Bronchiectasis *Int J Chron Obstruct Pulmon Dis* *15*,2827-2836. DOI: 10.2147/COPD.S271810
- Wiertz, I.A., Moll, S.A., Seeliger, B., Barlo, N.P., van der Vis, J.J., Korthagen, N.M., Rijkers, G.T., Ruven, H.J.T., Grutters, J.C., Prasse, A., van Moersel, C.H.M. (2020). Genetic Variation in CCL18 Gene Influences CCL18 Expression and Correlates with Survival in Idiopathic Pulmonary Fibrosis: Part A *J Clin Med* *9*. DOI: 10.3390/jcm9061940

Leitlinien von Fachgesellschaften

- Behr, J., Günther, A., Bonella, F., Dinkel, J., Fink, L., Geiser, T., Geissler, K., Gläser, S., Handzhiev, S., Jonigk, D., Koschel, D., Kreuter, M., Leuschner, G., Markart, P., Prasse, A., Schönfeld, N., Schupp, J.C., Sitter, H., Müller-Quernheim, J., Costabel, U. (2020). S2K-Leitlinie zur Diagnostik der idiopathischen Lungenfibrose. *Pneumologie* *74*,263-293. DOI: 10.1055/a-1120-3531

Brunkhorst, F.M., Weigand, M.A., Pletz, M., Gastmeier, P., Lemmen, S.W., Meier-Hellmann, A., Ragaller, M., Weyland, A., Marx, G., Bucher, M., Gerlach, H., Salzberger, B., Grabein, B., Welte, T., Werdan, K., Kluge, S., Bone, H.G., Putensen, C., Rossaint, R., Quintel, M., Spies, C., Weiss, B., John, S., Oppert, M., Jörres, A., Brenner, T., Elke, G., Gründling, M., Mayer, K., Weimann, A., Felbinger, T.W., Axer, H., Deutsche Sepsis Gesellschaft e.V. (2020).S3-Leitlinie Sepsis - Prävention, Diagnose, Therapie und Nachsorge : Langfassung Med Klin Intensivmed Notfmed 115,37-109. DOI: 10.1007/s00063-020-00685-0

Delcroix, M., Torbicki, A., Gopalan, D., Sitbon, O., Klok, F.A., Lang, I., Jenkins, D., Kim, N.H., Humbert, M., Jais, X., Noordegraaf, A.V., Pepke-Zaba, J., Brenot, P., Dorfmueller, P., Fadel, E., Ghofrani, H.A., Hoeper, M.M., Jansa, P., Madani, M., Matsubara, H., Ogo, T., Grunig, E., D'Armini, A., Galie, N., Meyer, B., Corkery, P., Meszaros, G., Mayer, E., Simonneau, G. (2021).ERS Statement on Chronic Thromboembolic Pulmonary Hypertension. Eur Respir J 57,2002828. DOI: 10.1183/13993003.02828-2020

Kluge, S., Janssens, U., Welte, T., Weber-Carstens, S., Schälte, G., Salzberger, B., Gastmeier, P., Langer, F., Welper, M., Westhoff, M., Pfeifer, M., Hoffmann, F., Böttiger, B.W., Marx, G., Karagiannidis, C. (2020).Empfehlungen für die Behandlung von kritisch kranken Patienten mit COVID-19 : Version 3 S1-Leitlinie Anaesthesist DOI: 10.1007/s00101-020-00879-3

Übersichtsarbeiten

Brunkhorst, F.M., Weigand, M.A., Pletz, M., Gastmeier, P., Lemmen, S.W., Meier-Hellmann, A., Ragaller, M., Weyland, A., Marx, G., Bucher, M., Gerlach, H., Salzberger, B., Grabein, B., Welte, T., Werdan, K., Kluge, S., Bone, H.G., Putensen, C., Rossaint, R., Quintel, M., Spies, C., Weiss, B., John, S., Oppert, M., Jörres, A., Brenner, T., Elke, G., Gründling, M., Mayer, K., Weimann, A., Felbinger, T.W., Axer, H., Heller, T., Gagelmann, N., Deutsche Sepsis Gesellschaft e. V. (2020).S3-Leitlinie Sepsis - Prävention, Diagnose, Therapie und Nachsorge : Zusammenfassung starker Empfehlungen Med Klin Intensivmed Notfmed 115,178-188. DOI: 10.1007/s00063-020-00671-6

Greer, M., Werlein, C., Jonigk, D. (2020).Surveillance for acute cellular rejection after lung transplantation Ann Transl Med 8,410. DOI: 10.21037/atm.2020.02.127

Herth, F., Hohlfeld, J.M., Haas, J., de la Hoz, A., Jin, X., Kreitner, K.F., Vogelmeier, C., Vogel-Claussen, J., Watz, H. (2020).The effect of tiotropium/olodaterol versus fluticasone propionate/salmeterol on left ventricular filling and lung hyperinflation in patients with COPD BMJ Open Respir Res 7,DOI: 10.1136/bmjresp-2020-000741

Janciauskiene, S. (2020).The Beneficial Effects of Antioxidants in Health And Diseases. Chronic Obstr Pulm Dis 7,182-202. DOI: 10.15326/jcopdf.7.3.2019.0152

Kluge, S., Janssens, U., Welte, T., Weber-Carstens, S., Marx, G., Karagiannidis, C. (2020).Empfehlungen zur intensivmedizinischen Therapie von Patienten mit COVID-19 Med Klin Intensivmed Notfmed 115,175-177. DOI: 10.1007/s00063-020-00674-3

Lechowicz, U., Rudzinski, S., Jezela-Stanek, A., Janciauskiene, S., Chorostowska-Wynimko, J. (2020).Post-Translational Modifications of Circulating Alpha-1-Antitrypsin Protein Int J Mol Sci 21,DOI: 10.3390/ijms21239187

Pletz, M.W., Blasi, F., Chalmers, J.D., Dela Cruz, C.S., Feldman, C., Luna, C.M., Ramirez, J.A., Shindo, Y., Stolz, D., Torres, A., Webb, B., Welte, T., Wunderink, R., Aliberti, S. (2020).International Perspective on the New 2019 American Thoracic Society/Infectious Diseases Society of America Community-Acquired Pneumonia Guideline: A Critical Appraisal by a Global Expert Panel Chest 158,1912-1918. DOI: 10.1016/j.chest.2020.07.089

Raidt, J., Brillault, J., Brinkmann, F., Jung, A., Koerner-Rettberg, C., Koitschev, A., Linz-Keul, H., Nüsslein, T., Ringshausen, F.C., Röhmel, J., Rosewich, M., Werner, C., Omran, H. (2020).Management der Primären Ciliären Dyskinesie Pneumologie 74,750-765. DOI: 10.1055/a-1235-1520

Ramirez, J.A., Musher, D.M., Evans, S.E., Dela Cruz, C., Crothers, K.A., Hage, C.A., Aliberti, S., Anzueto, A., Arancibia, F., Arnold, F., Azoulay, E., Blasi, F., Bordon, J., Burdette, S., Cao, B., Cavallazzi, R., Chalmers, J., Charles, P., Chastre, J., Claessens, Y.E., Dean, N., Duval, X., Fartoukh, M., Feldman, C., File, T., Froes, F., Furmanek, S., Gnoni, M., Lopardo, G., Luna, C., Maruyama, T., Menendez, R., Metersky, M., Mildvan, D., Mortensen, E., Niederman, M.S., Pletz, M., Rello, J., Restrepo, M.I., Shindo, Y., Torres, A., Waterer, G., Webb, B., Welte, T., Witzernath, M., Wunderink, R. (2020).Treatment of Community-Acquired Pneumonia in Immunocompromised Adults: A Consensus Statement Regarding Initial Strategies Chest 158,1896-1911. DOI: 10.1016/j.chest.2020.05.598

Ringshausen, F.C., Hellmuth, T., Dittrich, A.M. (2020).Was ist gesichert in der Therapie der Mukoviszidose? Internist (Berl) 61,1212-1229. DOI: 10.1007/s00108-020-00896-9

Schupp, J.C., Prasse, A., Erythropel, H.C. (2020).E-Zigaretten - Funktionsweise, Inhaltsstoffe und die Vaping-assoziierte akute Lungenschädigung Pneumologie 74,77-87. DOI: 10.1055/a-1078-8126

Seeliger, B., Prasse, A. (2020).Immunomodulation in Autoimmune Interstitial Lung Disease Respiration 99,819-829. DOI: 10.1159/000511200

Sommer, N., Ghofrani, H.A., Pak, O., Bonnet, S., Provencher, S., Sitbon, O., Rosenkranz, S., Hoeper, M.M., Kiely, D.G. (2021). Current and future treatments of pulmonary arterial hypertension. *Br J Pharmacol* 178,6-30. DOI: 10.1111/bph.15016

Werlein, C., Seidel, A., Warnecke, G., Gottlieb, J., Laenger, F., Jonigk, D. (2020). Lung Transplant Pathology: An Overview on Current Entities and Procedures *Surg Pathol Clin* 13,119-140. DOI: 10.1016/j.path.2019.11.003

Windisch, W., Weber-Carstens, S., Kluge, S., Rossaint, R., Welte, T., Karagiannidis, C. (2020). Invasive and Non-Invasive Ventilation in Patients With COVID-19 *Dtsch Arztebl Int* 117,528-533. DOI: 10.3238/arztebl.2020.0528

Zhong, S., Golpon, H., Zardo, P., Borlak, J. (2021). miRNAs in lung cancer. A systematic review identifies predictive and prognostic miRNA candidates for precision medicine in lung cancer. *Transl Res* 230,164-196. DOI: 10.1016/j.trsl.2020.11.012

Letter

Gloeckl, R., Nell, C., Schneeberger, T., Jarosch, I., Boensch, M., Watz, H., Wirtz, H., Welte, T., Kenn, K., Koczulla, A.R. (2020). Benefits of pulmonary rehabilitation in patients with advanced lymphangioleiomyomatosis (LAM) compared with COPD - a retrospective analysis. *Orphanet J Rare Dis* 15,255. DOI: 10.1186/s13023-020-01540-3

Holz, O., Waschki, B., Watz, H., Kirsten, A., Abdo, M., Pedersen, F., Weckmann, M., Fuchs, O., Dittrich, A.M., Hansen, G., Kopp, M.V., V Mutius, E., Rabe, K.F., Hohlfeld, J.M., Bahmer, T., ALLIANCE Study Group. (2021). Breath volatile organic compounds and inflammatory markers in adult asthma patients - negative results from the ALLIANCE cohort. *Eur Respir J* 57,2002127. DOI: 10.1183/13993003.02127-2020

Krowka, M., Cottreel, E., Hoeper, M.M., Kim, N.H., Martin, N., Sitbon, O., Bosch, J. (2020). Macitentan Improves Risk Categorization for Liver Transplant Mortality in Patients With Portopulmonary Hypertension: A PORTICO Study Post Hoc Analysis *Liver Transpl* 26,935-940. DOI: 10.1002/lt.25747

Meyer, B.C., Hinrichs, J.B., Ivanyi, P., Ehrlich, S., Greer, M., Hoeper, M.M., Busch, M. (2020). Extracorporeal portosystemic shunt in secondary Budd-Chiari syndrome *J Hepatol* 73,974-976. DOI: 10.1016/j.jhep.2020.05.038

Olsson, K.M., Fuge, J., Brod, T., Kamp, J.C., Schmitto, J., Kempf, T., Bauersachs, J., Hoeper, M.M. (2020). Oral iron supplementation with ferric maltol in patients with pulmonary hypertension *Eur Respir J* 56, DOI: 10.1183/13993003.00616-2020

Stahl, K., Gronski, P.A., Kiyan, Y., Seeliger, B., Bertram, A., Pape, T., Welte, T., Hoeper, M.M., Haller, H., David, S. (2020). Injury to the Endothelial Glycocalyx in Critically Ill Patients with COVID-19 *Am J Respir Crit Care Med* 202,1178-1181. DOI: 10.1164/rccm.202007-2676LE

Case reports

Janciauskiene, S., Royer, P.J., Fuge, J., Wrenger, S., Chorostowska-Wynimko, J., Falk, C., Welte, T., Reynaud-Gaubert, M., Roux, A., Tissot, A., Magnan, A. (2020). Plasma Acute Phase Proteins as Predictors of Chronic Lung Allograft Dysfunction in Lung Transplant Recipients *J Inflamm Res* 13,1021-1028. DOI: 10.2147/JIR.S272662

Kamp, J.C., Jonigk, D.D., Hinrichs, J.B., Hoeper, M.M., Schönhofer, B., Ernst, D., Welte, T., Suhling, H. (2020). Recurrent Life-threatening Pneumonitis in a 37-Year-Old Woman *Chest* 158,e127-e132. DOI: 10.1016/j.chest.2020.03.066

Kamp, J.C., Suhling, H., Ramthor, M., Hinrichs, J.B., Soudah, B., Adel, J., Welte, T., Ringshausen, F.C. (2021). Eosinophile Granulomatose mit Polyangiitis mit pulmonaler und kardialer Beteiligung *Pneumologie* 75,33-38. DOI: 10.1055/a-1209-4292

Stahl, K., Bräsen, J.H., Hoeper, M.M., David, S. (2020). Direct evidence of SARS-CoV-2 in gut endothelium *Intensive Care Med* 46,2081-2082. DOI: 10.1007/s00134-020-06237-6

Suhling, H., Welte, T., Fuehner, T. (2020). Three Patients With Acute Pulmonary Damage Following the Use of E-Cigarettes - A Case Series. *Dtsch Arztebl Int* 117,177-182. DOI: 10.3238/arztebl.2020.0177

Winter, L., Naumann, F., Olsson, K., Fuge, J., Hoeper, M.M., Kahl, K.G. (2020). Metacognitive Therapy for Adjustment Disorder in a Patient With Newly Diagnosed Pulmonary Arterial Hypertension: A Case Report *Front Psychol* 11,143. DOI: 10.3389/fpsyg.2020.00143

Editorials

Behr, J., Hoeper, M.M. (2020). Subtle signs - red flags. *Eur Respir J* 55,2000606 [pii]. DOI: 10.1183/13993003.00606

Burchert, D., Haller, H., Marker-Hermann, E., Sieber, C., Welte, T. (2020). Hausärztliche Medizin - Teil I : Praxisorientierte Diagnose- und Behandlungspfade *Internist (Berl)* 67,1-2. DOI: 10.1007/s00108-019-00731-w

Fong, K.M., Welte, T., Forum of International Respiratory Societies (FIRS). (2020).World Lung Day: what, why, and where to? *Am J Physiol Lung Cell Mol Physiol* 319,L527-L533. DOI: 10.1152/ajplung.00364.2020

Gaga, M., Stolz, D., Chorostowska-Wynimko, J., Welte, T., Simonds, A. (2020).Respiratory medicine is not gender blind *Eur Respir J* 55;DOI: 10.1183/13993003.01847-2019

Hoeper, M.M. (2020).Exercise Pulmonary Hypertension Is Back. *J Am Coll Cardiol* 75;27-28. DOI: 10.1016/j.jacc.2019.11.010

Hoeper, M.M. (2020).Pulmonary Artery Denervation: The New Kid on the Block? *J Am Coll Cardiol* 76;927-929. DOI: 10.1016/j.jacc.2020.06.06

Kauczor, H.U., Welte, T. (2020).The Role of CT in the Diagnosis of COVID-19-a State of Constant Flux *Dtsch Arztebl Int* 117;387-388. DOI: 10.3238/arztebl.2020.0387

Orihuela, C.J., Maus, U.A., Brown, J.S. (2020).Can animal models really teach us anything about pneumonia? *Pro Eur Respir J* 55;DOI: 10.1183/13993003.01539-2019

Roche, N., Tonia, T., Miravittles, M., Vaccaro, V., Genton, C., Welte, T., Troosters, T., Brusselle, G., Brightling, C. (2020).Expanding the spectrum of European Respiratory Society official scientific documents: short documents complement clinical practice guidelines, statements and technical standards. *Eur Respir J* 55;2001030 [pii]. DOI: 10.1183/13993003.01030-2020

Salzberger, B., Welte, T. (2020).COVID-19 - eine neue und vielseitige Herausforderung *Internist (Berl)* 61;773-775. DOI: 10.1007/s00108-020-00851-8

Salzberger, B., Welte, T. (2020).Sepsis - es bleibt weiterhin viel zu tun *Internist (Berl)* 61;995-996. DOI: 10.1007/s00108-020-00866-1

Welte, T. (2020).Creating Necessary Structures *Dtsch Arztebl Int* 117;195-196. DOI: 10.3238/arztebl.2020.0195

Abstracts

Hitz, A., BellmàsSanz, R., Ius, F., Kühne, J., Wiegmann, B., Sommer, W., Salman, J., Siemeni, T., Greer, M., Kühn, C., Avsar, M., Haverich, A., Warnecke, G., Falk, C.S. (2020).Lung Transplant Recipients Developing Early DSA within the First Month are Characterized by a Higher Frequency of Naïve and a Lower Frequency of Memory B Cells. *J Heart Lung Transplant* 39;S324. DOI: 10.1016/j.healun.2020.01.333

Ius, F., Draeger, H., Sommer, W., Salman, J., Schwerk, N., Gottlieb, J., Welte, T., Haverich, A., Tudorache, I., Warnecke, G. (2020).Impact of Unilateral Diaphragmatic Dysfunction on Postoperative Outcome after Bilateral Lung Transplantation. *Thorac Cardiovasc Surg* 68;DGTHG-V106. DOI: 10.1055/s-0040-1705373

Ius, F., Draeger, H., Sommer, W., Siemeni, T., Kühn, C., Avsar, M., Bobylev, D., Schwerk, N., Greer, M., Haverich, A., Tudorache, I., Warnecke, G. (2020).Impact of Diaphragmatic Dysfunction on Postoperative Course after Bilateral Lung Transplantation. *J Heart Lung Transplant* 39;S124. DOI: 10.1016/j.healun.2020.01.1014

Nakagiri, T., Knöfel, A.K., Janciauskiene, S.M., Wrenger, S., Welte, T., Haverich, A., Warnecke, G. (2020). Alpha1-antitrypsin therapy suppresses acute rejection in an orthotopic murine lung transplantation model. *DZL Jahrestreffen*, 23.-24.Januar 2020, Travemünde.

Siemeni, T., Knoefel, A., Ius, F., Salman, J., Sommer, W., Avsar, M., Kuehn, C., Maus, U., Falk, C., Tudorache, I., Haverich, A., Warnecke, G. (2020).Correlation of CLAD in Lung Transplant Recipients with Transplant Arteriosclerosis in Humanized Mice: A 5-years Follow Up Analysis. *J Heart Lung Transplant* 39;S200. DOI: 10.1016/j.healun.2020.01.807

sonstiges

Agne, A., Richter, K., Tumpara, S., Sauer, A.L., Beckert, F., Wrenger, S., Zakrzewicz, A., Hecker, A., Markmann, M., Koch, C., Zajonz, T., Sander, M., Böning, A., Padberg, W., Janciauskiene, S., Grau, V. (2020).Does heart surgery change the capacity of alpha1-antitrypsin to inhibit the ATP-induced release of monocytic interleukin-1beta? A preliminary study *Int Immunopharmacol* 87;106297. DOI: 10.1016/j.in-timp.2020.106297

Kahnert, K., Föhrenbach, M., Lucke, T., Alter, P., Trudzinski, F.T., Bals, R., Lutter, J.I., Timmermann, H., Söhler, S., Förderreuther, S., Nowak, D., Watz, H., Waschki, B., Behr, J., Welte, T., Vogelmeier, C.F., Jorres, R.A. (2020).The impact of COPD on polyneuropathy: results from the German COPD cohort COSYCONET. *Respir Res* 21;28. DOI: 10.1186/s12931-020-1293-6

Karagiannidis, C., Mostert, C., Hentschker, C., Voshaar, T., Malzahn, J., Schillinger, G., Klauber, J., Janssens, U., Marx, G., Weber-Carstens, S., Kluge, S., Pfeifer, M., Grabenhenrich, L., Welte, T., Busse, R. (2020).Case characteristics, resource use, and outcomes of 10 021

patients with COVID-19 admitted to 920 German hospitals: an observational study *Lancet Respir Med* 8,853-862. DOI: 10.1016/S2213-2600(20)30316-7

Siddall, H., Quint, D., Pandya, H., Powley, W., Shabbir, S., Hohlfeld, J.M., Singh, D., Lee, L. (2020). Intranasal GSK2245035, a Toll-like receptor 7 agonist, does not attenuate the allergen-induced asthmatic response in a randomized, double-blind, placebo-controlled experimental medicine study *PLoS One* 15,e0240964. DOI: 10.1371/journal.pone.0240964

Struss, N., Badorrek, P., Mattern, C., Mattern, U., Hohlfeld, J.M. (2020). The Effect of a Thixotropic Nasal Gel on Nasal Symptoms and Inflammatory Biomarkers in Seasonal Allergic Rhinitis *Int Arch Allergy Immunol* 181,385-394. DOI: 10.1159/000506129

Watz, H., Hohlfeld, J.M., Singh, D., Beier, J., Diamant, Z., Liu, J., Hua, S., Abd-Elaziz, K., Pinot, P., Jones, I., Tillmann, H.C. (2020). Letter to the editor: indacaterol/glycopyrronium/mometasone furoate compared with salmeterol/fluticasone propionate in patients with asthma: a randomized controlled cross-over study *Respir Res* 21,87. DOI: 10.1186/s12931-020-01349-5

Promotionen

Küppers, L. (2020). Breath volatile organic compounds of lung transplant recipients with and without chronic lung allograft dysfunction. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Neßlage, R.A. (2019). Bedeutung einer transient verstärkten mononukleären Phagozytenmobilisierung für den Verlauf der pulmonalen mykobakteriellen Infektion der Maus. Dissertation, Medizinische Hochschule Hannover, 2020

Zentrum Kinderheilkunde und Jugendmedizin

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Originalpublikationen

Aguade-Gorgorio, J., McComb, S., Eckert, C., Guinot, A., Marovca, B., Mezzatesta, C., Jenni, S., Abdul, L., Schrappe, M., Dobay, M.P., Stanulla, M., von Stackelberg, A., Cario, G., Bourquin, J.P., Bornhauser, B.C. (2020). TNFR2 is required for RIP1-dependent cell death in human leukemia *Blood Adv* 4,4823-4833. DOI: 10.1182/bloodadvances.2019000796

Au-Yeung, R.K.H., Arias Padilla, L., Zimmermann, M., Oschlies, I., Siebert, R., Woessmann, W., Burkhardt, B., Klapper, W. (2020). Experience with provisional WHO-entities large B-cell lymphoma with IRF4-rearrangement and Burkitt-like lymphoma with 11q aberration in paediatric patients of the NHL-BFM group *Br J Haematol* 190,753-763. DOI: 10.1111/bjh.16578

Bettoni da Cunha-Riehm, C., Hildebrand, V., Nathrath, M., Metzler, M., Suttrop, M. (2020). Vaccination With Live Attenuated Vaccines in Four Children With Chronic Myeloid Leukemia While on Imatinib Treatment *Front Immunol* 11,628. DOI: 10.3389/fimmu.2020.00628

Blaeschke, F., Willier, S., Stenger, D., Lepenies, M., Horstmann, M.A., Escherich, G., Zimmermann, M., Rojas Ringeling, F., Canzar, S., Kaeuferle, T., Rohlf, M., Binder, V., Klein, C., Feuchtinger, T. (2020). Leukemia-induced dysfunctional TIM-3(+)CD4(+) bone marrow T cells increase risk of relapse in pediatric B-precursor ALL patients *Leukemia* 34,2607-2620. DOI: 10.1038/s41375-020-0793-1

Bornhauser, B., Cario, G., Rinaldi, A., Risch, T., Rodriguez Martinez, V., Schütte, M., Warnatz, H.J., Scheidegger, N., Mirkowska, P., Temperli, M., Möller, C., Schumich, A., Dworzak, M., Attarbaschi, A., Brüggemann, M., Ritgen, M., Mejstrikova, E., Hofmann, A., Buldini, B., Scarparo, P., Basso, G., Maglia, O., Gaipa, G., Skoblyn, T.L., Te Kronnie, G., Vendramini, E., Panzer-Grümayer, R., Barz, M.J., Marovca, B., Hauri-Hohl, M., Niggli, F., Eckert, C., Schrappe, M., Stanulla, M., Zimmermann, M., Wollscheid, B., Yaspo, M.L., Bourquin, J.P. (2020). The hematopoietic stem cell marker VNN2 is associated with chemoresistance in pediatric B-cell precursor ALL *Blood Adv* 4,4052-4064. DOI: 10.1182/bloodadvances.2019000938

Böske, A.K., Sander, A., Sykora, K.W., Baumann, U., Pfister, E.D. (2020). Hepatitis-assoziierte aplastische Anämie im Kindesalter *Klin Padiatr* 232,151-158. DOI: 10.1055/a-1108-1553

Calaminus, G., Schneider, D.T., von Schweinitz, D., Jürgens, H., Infed, N., Schönberger, S., Olson, T.A., Albers, P., Vokuhl, C., Stein, R., Looijenga, L., Sehouli, J., Metzelder, M., Claviez, A., Dworzak, M., Eggert, A., Fröhlich, B., Gerber, N.U., Kratz, C.P., Faber, J., Klingebiel,

T., Harms, D., Göbel, U. (2020). Age-Dependent Presentation and Clinical Course of 1465 Patients Aged 0 to Less than 18 Years with Ovarian or Testicular Germ Cell Tumors; Data of the MAKEI 96 Protocol Revisited in the Light of Prenatal Germ Cell Biology Cancers (Basel) *12*,611. DOI: 10.3390/cancers12030611

Cesaro, S., Pillon, M., Sauer, M., Smiers, F., Faraci, M., de Heredia, C.D., Wynn, R., Greil, J., Locatelli, F., Veys, P., Uyttendaele, A., Ljungman, P., Chevalier, P., Ansari, M., Badell, I., Gungor, T., Salim, R., Tischer, J., Tecchio, C., Russell, N., Chybicka, A., Styczynski, J., Krivan, G., Smith, O., Stein, J., Afanasyev, B., Pochon, C., Menconi, M.C., Bosman, P., Mauro, M., Tridello, G., de Latour, R.P., Dufour, C. (2020). Long-term outcome after allogeneic hematopoietic stem cell transplantation for Shwachman-Diamond syndrome: a retrospective analysis and a review of the literature by the Severe Aplastic Anemia Working Party of the European Society for Blood and Marrow Transplantation (SAAWP-EBMT). *Bone Marrow Transplant* *55*,1796-1809. DOI: 10.1038/s41409-020-0863-z

Chiesa, R., Wang, J., Blok, H.J., Hazelaar, S., Neven, B., Moshous, D., Schulz, A., Hoenig, M., Hauck, F., Al Seraihy, A., Gozdzik, J., Ljungman, P., Lindemans, C.A., Fernandes, J.F., Kalwak, K., Strahm, B., Schanz, U., Sedlacek, P., Sykora, K.W., Aksoylar, S., Locatelli, F., Stepensky, P., Wynn, R., Lum, S.H., Zecca, M., Porta, F., Taskinen, M., Gibson, B., Matthes, S., Karakukcu, M., Hauri-Hohl, M., Veys, P., Gennery, A.R., Lucchini, G., Felber, M., Albert, M.H., Balashov, D., Lankester, A., Güngör, T., Slatter, M.A. (2020). Hematopoietic cell transplantation in chronic granulomatous disease: a study of 712 children and adults. *Blood* *136*,1201-1211. DOI: 10.1182/blood.2020005590

Cöktü, S., Spix, C., Kaiser, M., Beygo, J., Kleinle, S., Bachmann, N., Kohlschmidt, N., Prawitt, D., Beckmann, A., Klaes, R., Nevinny-Stickel-Hinzpeter, C., Döhnert, S., Kraus, C., Kadgien, G., Vater, I., Biskup, S., Kutsche, M., Kohlhase, J., Eggermann, T., Zenker, M., Kratz, C.P. (2020). Cancer incidence and spectrum among children with genetically confirmed Beckwith-Wiedemann spectrum in Germany: a retrospective cohort study *Br J Cancer* *123*,619-623. DOI: 10.1038/s41416-020-0911-x

Dragon, A.C., Zimmermann, K., Nerreter, T., Sandfort, D., Lahrberg, J., Klöss, S., Kloth, C., Mangare, C., Bonifacius, A., Tischer-Zimmermann, S., Blasczyk, R., Maecker-Kolhoff, B., Uchanska-Ziegler, B., Abken, H., Schambach, A., Hudecek, M., Eiz-Vesper, B. (2020). CAR-T cells and TRUCKs that recognize an EBNA-3C-derived epitope presented on HLA-B*35 control Epstein-Barr virus-associated lymphoproliferation *J Immunother Cancer* *8*,e000736. DOI: 10.1136/jitc-2020-000736

Erarslan-Uysal, B., Kunz, J.B., Rausch, T., Richter-Pechanska, P., van Belzen, I.A., Frimantas, V., Bornhauser, B., Ordóñez-Rueda, D., Paulsen, M., Benes, V., Stanulla, M., Schrappe, M., Cario, G., Escherich, G., Bakharevich, K., Kirschner-Schwabe, R., Eckert, C., Loukanov, T., Gorenflo, M., Waszak, S.M., Bourquin, J.P., Muckenthaler, M.U., Korb, J.O., Kulozik, A.E. (2020). Chromatin accessibility landscape of pediatric T-lymphoblastic leukemia and human T-cell precursors. *EMBO Mol Med* *12*,e12104. DOI: 10.15252/emmm.202012104

Germeshausen, M., Ballmaier, M. (2021). CAMT-MPL: Congenital Amegakaryocytic Thrombocytopenia caused by MPL mutations - Heterogeneity of a monogenic disorder - Comprehensive analysis of 56 patients *Haematologica* *106*,2439-2448. DOI: 10.3324/haematol.2020.257972

Gluckman, E., Fuente, J., Cappelli, B., Scigliuolo, G.M., Volt, F., Tozatto-Maio, K., Rocha, V., Tommaso, M., O'Boyle, F., Smiers, F., Cunha-Riehm, C.B.D., Calore, E., Bonanomi, S., Graphakos, S., Paisiou, A., Albert, M.H., Ruggeri, A., Zecca, M., Lankester, A.C., Corbacioglu, S., Paediatric Diseases (PDWP) and Inborn Errors Working Parties (IEWP) of the EBMT. (2020). The role of HLA matching in unrelated donor hematopoietic stem cell transplantation for sickle cell disease in Europe *Bone Marrow Transplant* *55*,1946-1954. DOI: 10.1038/s41409-020-0847-z

Heinemann, N.C., Tischer-Zimmermann, S., Wittke, T.C., Eigendorf, J., Kerling, A., Framke, T., Melk, A., Heuft, H.G., Blasczyk, R., Maecker-Kolhoff, B., Eiz-Vesper, B. (2020). High-intensity interval training in allogeneic adoptive T-cell immunotherapy - a big HIT? *J Transl Med* *18*,148. DOI: 10.1186/s12967-020-02301-3

Himes, R.W., Chiou, E.H., Queliza, K., Shouval, D.S., Somech, R., Agarwal, S., Jajoo, K., Ziegler, D.S., Kratz, C.P., Huang, J., Lucas, T.L., Myers, K.C., Nelson, A.S., DiNardo, C.D., Alter, B.P., Giri, N., Khincha, P.P., McReynolds, L.J., Dufour, C., Pierri, F., Goldman, F.D., Sherif, Y., Savage, S.A., Miloh, T., Bertuch, A.A. (2021). Gastrointestinal Hemorrhage: A Manifestation of the Telomere Biology Disorders *J Pediatr* *230*,55-61.e4. DOI: 10.1016/j.jpeds.2020.09.038

Hinze, L., Labrosse, R., Degar, J., Han, T., Schatoff, E.M., Schreek, S., Karim, S., McGuckin, C., Sacher, J.R., Wagner, F., Stanulla, M., Yuan, C., Sicinska, E., Giannakis, M., Ng, K., Dow, L.E., Gutierrez, A. (2020). Exploiting the Therapeutic Interaction of WNT Pathway Activation and Asparaginase for Colorectal Cancer Therapy *Cancer Discov* *10*,1690-1705. DOI: 10.1158/2159-8290.CD-19-1472

Hoenig, M., Roesler, J., Seidel, M.G., Albert, M.H., Hauck, F., Maecker-Kolhoff, B., Eiz-Vesper, B., Kleinschmidt, K., Debatin, K.M., Jacobsen, E.M., Furlan, I., Suttrop, M., Schuetz, C., Schulz, A.S. (2020). Matched Family Donor Lymphocyte Infusions as First Cellular Therapy for Patients with Severe Primary T Cell Deficiencies *Biol Blood Marrow Transplant* *30*,630. DOI: 10.1016/j.bbmt.2020.09.037

Hrusak, O., Kalina, T., Wolf, J., Balduzzi, A., Provenzi, M., Rizzari, C., Rives, S., Del Pozo Carlavilla, M., Alonso, M.E.V., Dominguez-Pinilla, N., Bourquin, J.P., Schmiegelow, K., Attarbaschi, A., Grillner, P., Mellgren, K., van der Werff Ten Bosch, J., Pieters, R., Brozou, T., Borkhardt, A., Escherich, G., Lauten, M., Stanulla, M., Smith, O., Yeoh, A.E.J., Elitzur, S., Vora, A., Li, C.K., Ariffin, H., Kolenova, A.,

- Dallapozza, L., Farah, R., Lazic, J., Manabe, A., Styczynski, J., Kovacs, G., Ottoffy, G., Felice, M.S., Buldini, B., Conter, V., Stary, J., Schrappe, M. (2020). Flash survey on severe acute respiratory syndrome coronavirus-2 infections in paediatric patients on anticancer treatment. *Eur J Cancer* *132*,11-16. DOI: 10.1016/j.ejca.2020.03.021
- Jost, F., Zierk, J., Le, T.T.T., Raupach, T., Rauh, M., Suttorp, M., Stanulla, M., Metzler, M., Sager, S. (2020). Model-Based Simulation of Maintenance Therapy of Childhood Acute Lymphoblastic Leukemia *Front Physiol* *11*,217. DOI: 10.3389/fphys.2020.00217
- Jung, M., Schieck, M., Hofmann, W., Tauscher, M., Lentjes, J., Bergmann, A., Stelter, M., Mörcke, A., Alten, J., Schlegelberger, B., Schrappe, M., Zimmermann, M., Stanulla, M., Cario, G., Steinemann, D. (2020). Frequency and prognostic impact of PAX5 p.P80R in pediatric acute lymphoblastic leukemia patients treated on an AIEOP-BFM acute lymphoblastic leukemia protocol *Genes Chromosomes Cancer* *59*,667-671. DOI: 10.1002/gcc.22882
- Khalil, A., Würthwein, G., Golitsch, J., Hempel, G., Fobker, M., Gerss, J., Mörcke, A., Zimmermann, M., Smisek, P., Zucchetti, M., Nath, C., Attarbaschi, A., Von Stackelberg, A., Gökbget, N., Rizzari, C., Conter, V., Schrappe, M., Boos, J., Lanvers-Kaminsky, C. (2020). Pre-existing antibodies against polyethylene glycol reduce asparaginase activities on first administration of pegylated E. coli asparaginase in children with acute lymphocytic leukemia *Haematologica* DOI: 10.3324/haematol.2020.258525
- Khanam, T., Sandmann, S., Seggewiss, J., Ruether, C.M., Zimmermann, M., Norvil, A.B., Bartenhagen, C., Randau, G., Mueller, S., Herbrüggen, H., Hoffmann, P., Herms, S., Wei, L., Wöste, M., Wünsch, C., Gowher, H., Oeschli, I., Klapper, W., Woessmann, W., Dugas, M., Burkhardt, B. (2021). Integrative genomic analysis of pediatric T-cell lymphoblastic lymphoma reveals candidates of clinical significance *Blood* *137*,2347-2359. DOI: 10.1182/blood.2020005381
- Knörr, F., Brugieres, L., Pillon, M., Zimmermann, M., Ruf, S., Attarbaschi, A., Mellgren, K., Burke, G.A.A., Uyttebroeck, A., Wrobel, G., Beishuizen, A., Aladjidi, N., Reiter, A., Woessmann, W., European Inter-Group for Childhood Non-Hodgkin Lymphoma. (2020). Stem Cell Transplantation and Vinblastine Monotherapy for Relapsed Pediatric Anaplastic Large Cell Lymphoma: Results of the International, Prospective ALCL-Relapse Trial *J Clin Oncol* *38*,3999-4009. DOI: 10.1200/JCO.20.00157
- Köhn, A.F., Grigull, L., du Moulin, M., Kabisch, S., Ammer, L., Rudolph, C., Muschol, N.M. (2020). Hematopoietic stem cell transplantation in mucopolysaccharidosis type IIIA: A case description and comparison with a genotype-matched control group *Mol Genet Metab Rep* *23*,100578. DOI: 10.1016/j.ymgmr.2020.100578
- Kühnle, L., Mücke, U., Lechner, W.M., Klawonn, F., Grigull, L. (2020). Development of a Social Network for People Without a Diagnosis (RarePairs): Evaluation Study. *J Med Internet Res* *22*,e21849. DOI: 10.2196/21849
- Larose, H., Prokoph, N., Matthews, J.D., Schleder, M., Högl, S., Alsulami, A.F., Ducray, S.P., Nuglozeh, E., Fazaludeen, F.M.S., Elmouna, A., Cecon, M., Mologni, L., Gambacorti-Passerini, C., Hoefler, G., Lobello, C., Pospisilova, S., Janikova, A., Woessmann, W., Damm-Welk, C., Zimmermann, M., Federova, A., Malone, A., Smith, O., Wasik, M., Inghirami, G., Lamant, L., Blundell, T.L., Klapper, W., Merkel, O., Burke, G.A.A., Mian, S., Ashankyty, I., Kenner, L., Turner, S.D. (2021). Whole Exome Sequencing reveals NOTCH1 mutations in anaplastic large cell lymphoma and points to Notch both as a key pathway and a potential therapeutic target *Haematologica* *106*,1693-1704. DOI: 10.3324/haematol.2019.238766
- Lyszkiewicz, M., Zietara, N., Frey, L., Pannicke, U., Stern, M., Liu, Y., Fan, Y., Puchalka, J., Hollizeck, S., Somekh, I., Rohlf, M., Yilmaz, T., Únal, E., Karakucuk, M., Patiroglu, T., Kellerer, C., Karasu, E., Sykora, K.W., Lev, A., Simon, A., Somech, R., Roesler, J., Hoenig, M., Keppler, O.T., Schwarz, K., Klein, C. (2020). Human FCHO1 deficiency reveals role for clathrin-mediated endocytosis in development and function of T cells. *Nat Commun* *11*,1031. DOI: 10.1038/s41467-020-14809-9
- Mai, P.L., Sand, S.R., Saha, N., Oberti, M., Dolafi, T., DiGianni, L., Root, E.J., Kong, X., Bremer, R.C., Santiago, K.M., Bojadzieva, J., Barley, D., Novokmet, A., Ketchum, K.A., Nguyen, N., Jacob, S., Nichols, K.E., Kratz, C.P., Schiffman, J.D., Evans, D.G., Achatz, M.I., Strong, L.C., Garber, J.E., Ladwa, S.A., Malkin, D., Weitzel, J.N. (2020). Li-Fraumeni Exploration Consortium Data Coordinating Center: Building an Interactive Web-Based Resource for Collaborative International Cancer Epidemiology Research for a Rare Condition *Cancer Epidemiol Biomarkers Prev* *29*,927-935. DOI: 10.1158/1055-9965.EPI-19-1113
- Mezzatesta, C., Abdul, L., Guinot, A., Eckert, C., Schewe, D., Zaliova, M., Vinti, L., Marovca, B., Tsai, Y.C., Jenni, S., Aguade-Gorgorio, J., von Stackelberg, A., Schrappe, M., Locatelli, F., Stanulla, M., Cario, G., Bourquin, J.P., Bornhauser, B.C. (2020). Repurposing anthelmintic agents to eradicate resistant leukemia *Blood Cancer J* *10*,72. DOI: 10.1038/s41408-020-0339-9
- Mikuteit, M., Steffens, S., Grigull, L., Kühnle, L., Behrends, M., Schmidt, R., Mücke, U. (2020). Rapid development of a digital module during the Covid-19 pandemic in undergraduate medical education of pediatrics by teachers and students. *GMS J Med Educ* *37*,Doc66. DOI: 10.3205/zma001359
- Morland, B., Kepak, T., Dallorso, S., Sevilla, J., Murphy, D., Luksch, R., Yaniv, I., Bader, P., Rössler, J., Bisogno, G., Maecker-Kolhoff, B., Lang, P., Zwaan, C.M., Sumerauer, D., Krivan, G., Bernard, J., Liu, Q., Doyle, E., Locatelli, F. (2020). Plerixafor combined with standard

regimens for hematopoietic stem cell mobilization in pediatric patients with solid tumors eligible for autologous transplants: two-arm phase I/II study (MOZAIC) *Bone Marrow Transplant* 55,1744-1753. DOI: 10.1038/s41409-020-0836-2

Moschny, N., Jahn, K., Bajbouj, M., Maier, H.B., Ballmaier, M., Khan, A.Q., Pollak, C., Bleich, S., Frieling, H., Neyazi, A. (2020). DNA Methylation of the t-PA Gene Differs Between Various Immune Cell Subtypes Isolated From Depressed Patients Receiving Electroconvulsive Therapy *Front Psychiatry* 11,571. DOI: 10.3389/fpsy.2020.00571

Moschny, N., Jahn, K., Maier, H.B., Khan, A.Q., Ballmaier, M., Liepach, K., Sack, M., Skripuletz, T., Bleich, S., Frieling, H., Neyazi, A. (2020). Electroconvulsive therapy, changes in immune cell ratios, and their association with seizure quality and clinical outcome in depressed patients *Eur Neuropsychopharmacol* 36,18-28. DOI: 10.1016/j.euroneuro.2020.03.019

Moser, O., Zimmermann, M., Meyer, U., Klapper, W., Oschlies, I., Schrappe, M., Attarbaschi, A., Mann, G., Niggli, F., Spix, C., Kontny, U., Klingebiel, T., Reiter, A., Burkhardt, B., Woessmann, W. (2021). Second malignancies after treatment of childhood non-Hodgkin lymphoma: a report of the Berlin-Frankfurt-Muenster study group *Haematologica* 106,1390-1400. DOI: 10.3324/haematol.2019.244780

Pichler, H., Lawitschka, A., Glogova, E., Willasch, A.M., von Luettichau, I., Lehrnbecher, T., Matthes-Martin, S., Lang, P., Bader, P., Sykora, K.W., Schrum, J., Kremens, B., Ehlert, K., Albert, M.H., Kuhlen, M., Meisel, R., Guengoer, T., Strahm, B., Gruhn, B., Schulz, A., Woessmann, W., Poetschger, U., Peters, C. (2019). Allogeneic hematopoietic stem cell transplantation from unrelated donors is associated with higher infection rates in children with acute lymphoblastic leukemia-A prospective international multicenter trial on behalf of the BFM-SG and the EBMT-PDWP. *Am J Hematol* 94,880-890. DOI: 10.1002/ajh.25511

Porto, L., You, S.J., Attarbaschi, A., Cario, G., Döring, M., Moser, O., Mücke, U., Poyer, F., Temme, C., Voigt, S., Groll, A.H., Lauten, M., Hattungen, E., Lehrnbecher, T. (2020). Invasive Mold Infection of the Central Nervous System in Immunocompromised Children *J Fungi (Basel)* 6,226. DOI: 10.3390/jof6040226

Rippinger, N., Fischer, C., Haun, M.W., Rhiem, K., Grill, S., Kiechle, M., Cremer, F.W., Kast, K., Nguyen, H.P., Ditsch, N., Kratz, C.P., Vogel, J., Speiser, D., Hettmer, S., Glimm, H., Fröhling, S., Jäger, D., Seitz, S., Hahne, A., Maatouk, I., Sutter, C., Schmutzler, R.K., Dikow, N., Schott, S. (2020). Cancer surveillance and distress among adult pathogenic TP53 germline variant carriers in Germany: A multicenter feasibility and acceptance survey *Cancer* 126,4032-4041. DOI: 10.1002/cncr.33004

Schieck, M., Lentjes, J., Thomay, K., Hofmann, W., Behrens, Y.L., Hagedorn, M., Ebersold, J., Davenport, C.F., Fazio, G., Möricke, A., Buchmann, S., Alten, J., Cario, G., Schrappe, M., Bergmann, A.K., Stanulla, M., Steinemann, D., Schlegelberger, B., Cazzaniga, G., Göhring, G. (2020). Implementation of RNA sequencing and array CGH in the diagnostic workflow of the AIEOP-BFM ALL 2017 trial on acute lymphoblastic leukemia *Ann Hematol* 99,809-818. DOI: 10.1007/s00277-020-03953-3

Shai, S., Perez-Becker, R., Andres, O., Bakhtiar, S., Bauman, U., von Bernuth, H., Classen, C.F., Duckers, G., El-Helou, S.M., Gangfuss, A., Ghosh, S., Grimbacher, B., Hauck, F., Hoenig, M., Husain, R.A., Kindle, G., Kipfmueller, F., Klemann, C., Kruger, R., Lainka, E., Lehmeberg, K., Lohrmann, F., Morbach, H., Naumann-Bartsch, N., Oommen, P.T., Schulz, A., Seidemann, K., Speckmann, C., Sykora, K.W., von Kries, R., Niehues, T. (2020). Incidence of SCID in Germany from 2014 to 2015 an ESPED* Survey on Behalf of the API*** Erhebungseinheit für Seltene Pädiatrische Erkrankungen in Deutschland (German Paediatric Surveillance Unit) ** Arbeitsgemeinschaft Pädiatrische Immunologie. *J Clin Immunol* 40,708-717. DOI: 10.1007/s10875-020-00782-x

Suwala, A.K., Stichel, D., Schrimpf, D., Kloor, M., Wefers, A.K., Reinhardt, A., Maas, S.L.N., Kratz, C.P., Schweizer, L., Hasselblatt, M., Snuderl, M., Abedalthagafi, M.S.J., Abdullaev, Z., Monoranu, C.M., Bergmann, M., Pekrun, A., Freyschlag, C., Aronica, E., Kramm, C.M., Hinz, F., Sievers, P., Korshunov, A., Kool, M., Pfister, S.M., Sturm, D., Jones, D.T.W., Wick, W., Unterberg, A., Hartmann, C., Dodgshun, A., Tabori, U., Wesseling, P., Sahm, F., von Deimling, A., Reuss, D.E. (2021). Primary mismatch repair deficient IDH-mutant astrocytoma (PMMDIA) is a distinct type with a poor prognosis *Acta Neuropathol* 141,85-100. DOI: 10.1007/s00401-020-02243-6

Theobald, S.J., Kreer, C., Khailaie, S., Bonifacius, A., Eiz-Vesper, B., Figueiredo, C., Mach, M., Backovic, M., Ballmaier, M., Koenig, J., Olbrich, H., Schneider, A., Volk, V., Danisch, S., Gieselmann, L., Ercanoglu, M.S., Messerle, M., Kaisenberg, C.V., Witte, T., Klawonn, F., Meyer-Hermann, M., Klein, F., Stripecke, R. (2020). Repertoire characterization and validation of gB-specific human IgGs directly cloned from humanized mice vaccinated with dendritic cells and protected against HCMV *PLoS Pathog* 16,e1008560. DOI: 10.1371/journal.ppat.1008560

Uden, T., Bertaina, A., Abrahamsson, J., Ansari, M., Balduzzi, A., Bourquin, J.P., Gerhardt, C., Bierings, M., Hasle, H., Lankester, A., Mischke, K., Moore, A.S., Nivison-Smith, I., Pieczonka, A., Peters, C., Sedlacek, P., Reinhardt, D., Stein, J., Versluis, B., Wachowiak, J., Willems, L., Zimmermann, M., Locatelli, F., Sauer, M.G. (2020). Outcome of children relapsing after first allogeneic haematopoietic stem cell transplantation for acute myeloid leukaemia: a retrospective I-BFM analysis of 333 children *Br J Haematol* 189,745-750. DOI: 10.1111/bjh.16441

Woessmann, W., Zimmermann, M., Meinhardt, A., Müller, S., Hauch, H., Knörr, F., Oschlies, I., Klapper, W., Niggli, F., Kabickova, E., Attarbaschi, A., Reiter, A., Burkhardt, B. (2020). Progressive or relapsed Burkitt lymphoma or leukemia in children and adolescents after BFM-type first-line therapy *Blood* 135,1124-1132. DOI: 10.1182/blood.2019003591

Wolska-Kusnierz, B., Pastorczak, A., Fendler, W., Wakulinska, A., Dembowska-Baginska, B., Heropolitanska-Pliszka, E., Piatosa, B., Pietrucha, B., Kalwak, K., Ussowicz, M., Pieczonka, A., Drabko, K., Lejman, M., Koltan, S., Gozdzik, J., Styczynski, J., Fedorova, A., Miakova, N., Deripapa, E., Kostyuchenko, L., Krenova, Z., Hlavackova, E., Gennery, A.R., Sykora, K.W., Ghosh, S., Albert, M.H., Balashov, D., Eapen, M., Svec, P., Seidel, M.G., Kilic, S.S., Tomaszewska, A., Wiesik-Szewczyk, E., Kreins, A., Greil, J., Buechner, J., Lund, B., Gregorek, H., Chrzanowska, K., Mlynarski, W. (2021). Hematopoietic Stem Cell Transplantation Positively Affects the Natural History of Cancer in Nijmegen Breakage Syndrome. *Clin Cancer Res* 27,575-584. DOI: 10.1158/1078-0432.CCR-20-2574

Würthwein, G., Lanvers-Kaminsky, C., Gerss, J., Möricke, A., Zimmermann, M., Stary, J., Smisek, P., Attarbaschi, A., Nath, C., Zucchetti, M., Rizzari, C., Schrappe, M., Boos, J. (2020). Therapeutic Drug Monitoring of Asparaginase: Intra-individual Variability and Predictivity in Children With Acute Lymphoblastic Leukemia Treated With PEG-Asparaginase in the AIEOP-BFM Acute Lymphoblastic Leukemia 2009 Study *Ther Drug Monit* 42,435-444. DOI: 10.1097/FTD.0000000000000727

Wustrau, K., Greil, J., Sykora, K.W., Albert, M.H., Burkhardt, B., Lang, P., Meisel, R., Wossmann, W., Beier, R., Schulz, A., Bader, P., Chada, M., Kühl, J.S., Schlegel, P.G., Speckmann, C., Gruhn, B., Seidel, M., Wawer, A., Ozga, A.K., Janka, G., Ehl, S., Müller, I., Lehmborg, K. (2020). Risk factors for mixed chimerism in children with hemophagocytic lymphohistiocytosis after reduced toxicity conditioning. *Pediatr Blood Cancer* 67,e28523. DOI: 10.1002/pbc.28523

Übersichtsarbeiten

Morgan, M.A., Büning, H., Sauer, M., Schambach, A. (2020). Use of Cell and Genome Modification Technologies to Generate Improved "Off-the-Shelf" CAR T and CAR NK Cells. *Front Immunol* 11,1965. DOI: 10.3389/fimmu.2020.01965

Salchow, J., Mann, J., Koch, B., von Grundherr, J., Jensen, W., Elmers, S., Straub, L.A., Vettorazzi, E., Escherich, G., Rutkowski, S., Dwinger, S., Bergelt, C., Sokalska-Duhme, M., Bielack, S., Calaminus, G., Baust, K., Classen, C.F., Rössig, C., Faber, J., Faller, H., Hilgendorf, I., Gebauer, J., Langer, T., Metzler, M., Schuster, S., Niemeyer, C., Puzik, A., Reinhardt, D., Dirksen, U., Sander, A., Köhler, M., Habermann, J.K., Bokemeyer, C., Stein, A. (2020). Comprehensive assessments and related interventions to enhance the long-term outcomes of child, adolescent and young adult cancer survivors - presentation of the CARE for CAYA-Program study protocol and associated literature review *BMC Cancer* 20,16. DOI: 10.1186/s12885-019-6492-5

Stanulla, M., Erdmann, F., Kratz, C.P. (2021). Risikofaktoren für Krebserkrankungen im Kindes- und Jugendalter. *Monatsschr Kinderheilkd* 169,30-38. DOI: 10.1007/s00112-020-01083-8

Letter

Zaliova, M., Potuckova, E., Lukes, J., Jr, Winkowska, L., Starkova, J., Janotova, I., Sramkova, L., Stary, J., Zuna, J., Stanulla, M., Zimmermann, M., Bornhauser, B., Bourquin, J.P., Eckert, C., Cario, G., Trka, J. (2021). Frequency and prognostic impact of ZEB2 H1038 and 1072 mutations in childhood B-other acute lymphoblastic leukemia. *Haematologica* 106,886-890. DOI: 10.3324/haematol.2020.249094

Case reports

Niehues, T., Özgür, T.T., Bickes, M., Waldmann, R., Schöning, J., Bräsen, J., Hagel, C., Ballmaier, M., Klusmann, J.H., Niedermayer, A., Pannicke, U., Enders, A., Dückers, G., Siepermann, K., Hempel, J., Schwarz, K., Viemann, D. (2020). Mutations of the gene FNIP1 associated with a syndromic autosomal recessive immunodeficiency with cardiomyopathy and pre-excitation syndrome. *Eur J Immunol* 50,1078-1080. DOI: 10.1002/eji.201948504

Abstracts

Bettoni da Cunha-Riehm, C., Kafa, K., Klusmann, J.H. (2020). Idiopathic Pneumonia Syndrome (IPS) after peripheral blood stem cell transplantation from unrelated donor for Hurler Syndrome (Mucopolysaccharidosis Type 1) successfully treated with Etanercept and Steroids. 46th Annual Meeting of the European Society for Blood and Marrow Transplantation (EBMT 2020), 29.08.-01.09.2020, Madrid.

sonstiges

Lyszkiewicz, M., Zietara, N., Frey, L., Pannicke, U., Stern, M., Liu, Y., Fan, Y., Puchalka, J., Hollizeck, S., Somekh, I., Rohlf, M., Yilmaz, T., Unal, E., Karakucuk, M., Patiroglu, T., Kellerer, C., Karasu, E., Sykora, K.W., Lev, A., Simon, A., Somech, R., Roesler, J., Hoenig, M., Keppler, O.T., Schwarz, K., Klein, C. (2020). Author Correction: Human FCHO1 deficiency reveals role for clathrin-mediated endocytosis in development and function of T cells. *Nat Commun* 11,1963. DOI: 10.1038/s41467-020-15946-x

Promotionen

Flasinski, M. (2019). Niedrigdosierte Behandlung mit Cytarabin zur Verhinderung der myeloischen Leukämie bei Kindern mit Down-Syndrom TMD Prevention 2007-Studie Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Schneider, D. (2020). Deciphering the oncogenic network of PRC2 loss guided leukemogenesis Dissertation, Medizinische Hochschule Hannover, 2020

Schweitzer, J. (2017). Charakterisierung der akuten megakaryoblastären Leukämie im Kindesalter. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Sieg, A. (2018). Entwicklung eines fragebogenbasierten Werkzeugs zur computergestützten Diagnostik ausgewählter, seltener Stoffwechselerkrankungen mittels Data Mining Verfahren. Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Pädiatrische Kardiologie und Pädiatrische Intensivmedizin – 6730

Originalpublikationen

Buddhe, S., Jani, V., Sarikouch, S., Gaur, L., Schuster, A., Beerbaum, P., Lewin, M., Kutty, S. (2021). Differences in right ventricular-pulmonary vascular coupling and clinical indices between repaired standard tetralogy of Fallot and repaired tetralogy of Fallot with pulmonary atresia *Diagn Interv Imaging* 102,85-91. DOI: 10.1016/j.diii.2020.05.008

Bunck, A.C., Baessler, B., Ritter, C., Kroger, J.R., Persigehl, T., Pinto Santos, D., Steinmetz, M., Niehaus, A., Bamberg, F., Beer, M., Ley, S., Tiemann, K., Beerbaum, P., Maintz, D., Lotz, J. (2020). Strukturierte Befundung in der Schnittbilddiagnostik des Herzens: Befundvorlagen für die MRT bei Kardiomyopathien (Myokarditis, dilatative Kardiomyopathie, hypertrophe Kardiomyopathie, arrhythmogene rechtsventrikuläre Kardiomyopathie und Siderose). *Röfo* 192,e1. DOI: 10.1055/a-1034-2379

Ceresoli, M., Salvetti, F., Kluger, Y., Braga, M., Vigano, J., Fugazzola, P., Sartelli, M., Ansaloni, L., Catena, F., Coccolini, F., IROA study group. (2020). Open Abdomen in Obese Patients: Pay Attention! New Evidences from IROA, the International Register of Open Abdomen. *World J Surg* 44,53-62. DOI: 10.1007/s00268-019-05209-2 [doi]

Chouvarine, P., Giera, M., Kastenmüller, G., Artati, A., Adamski, J., Bertram, H., Hansmann, G. (2020). Trans-right ventricle and transpulmonary metabolite gradients in human pulmonary arterial hypertension *Heart* 106,1332-1341. DOI: 10.1136/heartjnl-2019-315900

Coccolini, F., Gubbiotti, F., Ceresoli, M., Tartaglia, D., Fugazzola, P., Ansaloni, L., Sartelli, M., Kluger, Y., Kirkpatrick, A., Amico, F., Catena, F., Chiarugi, M., IROA study group. (2020). Open Abdomen and Fluid Instillation in the Septic Abdomen: Results from the IROA Study *World J Surg* 44,4032-4040. DOI: 10.1007/s00268-020-05728-3

Diller, G.P., Orwat, S., Vahle, J., Bauer, U.M.M., Urban, A., Sarikouch, S., Berger, F., Beerbaum, P., Baumgartner, H., German Competence Network for Congenital Heart Defects Investigators. (2020). Prediction of prognosis in patients with tetralogy of Fallot based on deep learning imaging analysis *Heart* 106,1007-1014. DOI: 10.1136/heartjnl-2019-315962

Diller, G.P., Vahle, J., Radke, R., Vidal, M.L.B., Fischer, A.J., Bauer, U.M.M., Sarikouch, S., Berger, F., Beerbaum, P., Baumgartner, H., Orwat, S., German Competence Network for Congenital Heart Defects Investigators. (2020). Utility of deep learning networks for the generation of artificial cardiac magnetic resonance images in congenital heart disease *BMC Med Imaging* 20,113. DOI: 10.1186/s12880-020-00511-1

Dopfer, C., Wetzke, M., Zychlinsky Scharff, A., Mueller, F., Dressler, F., Baumann, U., Sasse, M., Hansen, G., Jablonka, A., Happle, C. (2020). COVID-19 related reduction in pediatric emergency healthcare utilization - a concerning trend. *BMC Pediatr* 20,427. DOI: 10.1186/s12887-020-02303-6

Ferraz Cavalcanti, P.E., Sa, M.P.B.O., Lins, R.F.A., Cavalcanti, C.V., Lima, R.C., Cvitkovic, T., Bobylev, D., Boethig, D., Beerbaum, P., Sarikouch, S., Haverich, A., Horke, A. (2020). Three-step preoperative sequential planning for pulmonary valve replacement in repaired tetralogy of Fallot using computed tomography *Eur J Cardiothorac Surg* 59,333-340. DOI: 10.1093/ejcts/ezaa346

Ganapathi, M., Argyriou, L., Martinez-Azorin, F., Morlot, S., Yigit, G., Lee, T.M., Auber, B., von Gise, A., Petrey, D.S., Thiele, H., Cyganek, L., Sabater-Molina, M., Ahimaz, P., Cabezas-Herrera, J., Sorli-Garcia, M., Zibat, A., Siegelin, M.D., Burfeind, P., Buchovecky, C.M., Hasenfuss, G., Honig, B., Li, Y., Iglesias, A.D., Wollnik, B. (2020). Bi-allelic missense disease-causing variants in RPL3L associate neonatal dilated cardiomyopathy with muscle-specific ribosome biogenesis *Hum Genet* 139,1443-1454. DOI: 10.1007/s00439-020-02188-6

Hansmann, G., Meinel, K., Bukova, M., Chouvarine, P., Wahlander, H., Koestenberger, M., European Pediatric Pulmonary Vascular Disease Network (EPPVDN). (2020). Selexipag for the treatment of children with pulmonary arterial hypertension: First multicenter experience in drug safety and efficacy *J Heart Lung Transplant* 39,695-706. DOI: 10.1016/j.healun.2020.03.029

Horke, A., Bobylev, D., Avsar, M., Meyns, B., Rega, F., Hazekamp, M., Huebler, M., Schmiady, M., Tzanavaros, I., Cesnjevar, R., Ciubotaru, A., Laufer, G., Zimpher, D., Jashari, R., Boethig, D., Cebotari, S., Beerbaum, P., Tudorache, I., Haverich, A., Sarikouch, S. (2020). Paediatric aortic valve replacement using decellularized allografts *Eur J Cardiothorac Surg* 58,817-824. DOI: 10.1093/ejcts/ezaa119

- Kaemmerer, H., Gorenflo, M., Huscher, D., Pittrow, D., Apitz, C., Baumgartner, H., Berger, F., Bruch, L., Brunnemer, E., Budts, W., Claussen, M., Coghlan, G., Dahmert, I., D'Alto, M., Delcroix, M., Distler, O., Dittrich, S., Dumitrescu, D., Ewert, R., Faehling, M., Germund, I., Ghofrani, H.A., Grohe, C., Grossekreymborg, K., Halank, M., Hansmann, G., Harzheim, D., Nemes, A., Havasi, K., Held, M., Hoepfer, M.M., Hofbeck, M., Hohenfrost-Schmidt, W., Jureviciene, E., Gumbiene, L., Kabitz, H.J., Klose, H., Kohler, T., Konstantinides, S., Koestenberger, M., Kozlik-Feldmann, R., Kramer, H.H., Kropf-Sanchen, C., Lammers, A., Lange, T., Meyn, P., Miera, O., Milger-Kneidinger, K., Neidenbach, R., Neurohr, C., Opitz, C., Perings, C., Remppis, B.A., Riemekasten, G., Scelsi, L., Scholtz, W., Simkova, I., Skowasch, D., Skride, A., Stahler, G., Stiller, B., Tsangaris, I., Vizza, C.D., Vonk Noordegraaf, A., Wilkens, H., Wirtz, H., Diller, G.P., Grunig, E., Rosenkranz, S. (2020). Pulmonary Hypertension in Adults with Congenital Heart Disease: Real-World Data from the International COMPERA-CHD Registry. *J Clin Med* 9, E1456 [pii]. DOI: 10.3390/jcm9051456
- Koestenberger, M., Avian, A., Cantinotti, M., Meinel, K., Hansmann, G. (2020). A novel echocardiographic approach indicates disease severity in pediatric pulmonary hypertension. *Pediatr Int* 62, 637-639. DOI: 10.1111/ped.14163
- Koestenberger, M., Avian, A., Chouvarine, P., Gamillscheg, A., Cvirn, G., Schweintzger, S., Kurath-Koller, S., Cantinotti, M., Hohmann, D., Hansmann, G. (2020). Right ventricular end-systolic remodeling index in the assessment of pediatric pulmonary arterial hypertension. The European Pediatric Pulmonary Vascular Disease Network (EPPVDN). *Pediatr Res* 88, 285-292. DOI: 10.1038/s41390-020-0748-2
- Köhler, D., Granja, T., Volz, J., Koeppen, M., Langer, H.F., Hansmann, G., Legchenko, E., Geisler, T., Bakchoul, T., Eggstein, C., Häberle, H.A., Nieswandt, B., Rosenberger, P. (2020). Red blood cell-derived semaphorin 7A promotes thrombo-inflammation in myocardial ischemia-reperfusion injury through platelet GPIb. *Nat Commun* 11, 1315. DOI: 10.1038/s41467-020-14958-x
- Mariscal-Harana, J., Charlton, P.H., Vennin, S., Aramburu, J., Florkow, M.C., van Engelen, A., Schneider, T., de Blied, H., Ruijsink, B., Valverde, I., Beerbaum, P., Grotenhuis, H., Charakida, M., Chowiecnyk, P., Sherwin, S.J., Alastruey, J. (2021). Estimating central blood pressure from aortic flow: development and assessment of algorithms. *Am J Physiol Heart Circ Physiol* 320, H494-H510. DOI: 10.1152/ajpheart.00241.2020
- Memaran, N., Schwalba, M., Borchert-Mörlins, B., von der Born, J., Markefke, S., Bauer, E., von Wick, A., Epping, J., von Maltzahn, N., Heyn-Schmidt, I., Grams, L., Homeyer, D., Kerling, A., Stiesch, M., Tegtbur, U., Haverich, A., Melk, A. (2020). Gesundheit und Fitness von deutschen Schulkindern. *Monatsschr Kinderheilkd* 168, 597-607. DOI: 10.1007/s00112-020-00882-3
- Nöhre, M., Paslakis, G., Albayrak, O., Bauer-Hohmann, M., Brederecke, J., Eser-Valeri, D., Tudorache, I., de Zwaan, M. (2020). Factor Analyses and Validity of the Transplant Evaluation Rating Scale (TERS) in a Large Sample of Lung Transplant Candidates. *Front Psychiatry* 11, 373. DOI: 10.3389/fpsy.2020.00373
- Pohlmann, D., Barth, A., Macedo, S., Pleyer, U., Winterhalter, S., Albayrak, O. (2020). The impact of impending / onset of vision loss on depression, anxiety, and vision-related quality of life in Birdshot-Retinochoroiditis and Serpiginous Choroiditis. *PLoS One* 15, e0239210. DOI: 10.1371/journal.pone.0239210
- Rausei, S., Pappalardo, V., Ceresoli, M., Catena, F., Sartelli, M., Chiarugi, M., Kluger, Y., Kirkpatrick, A., Ansaloni, L., Coccolini, F., IROA study Group. (2020). Open abdomen management for severe peritonitis in elderly. Results from the prospective International Register of Open Abdomen (IROA): Cohort study. *Int J Surg* 82, 240-244. DOI: 10.1016/j.ijsu.2020.08.030
- Sallmon, H., Metze, B., Koehne, P., Opgen-Rhein, B., Weiss, K., Will, J.C., Franke, C.V., Hansmann, G., Koestenberger, M., Bühner, C., Berger, F., Weber, S.C., Cremer, M. (2020). Mature and immature platelets during the first week after birth and incidence of patent ductus arteriosus. *Cardiol Young* 30, 769-773. DOI: 10.1017/S1047951120000943
- Schweintzger, S., Koestenberger, M., Schlagenhaut, A., Grangl, G., Burmas, A., Kurath-Koller, S., Pocivalnik, M., Sallmon, H., Baumgartner, D., Hansmann, G., Gamillscheg, A. (2020). Safety and efficacy of the endothelin receptor antagonist macitentan in pediatric pulmonary hypertension. *Cardiovasc Diagn Ther* 10, 1675-1685. DOI: 10.21037/cdt.2020.04.01
- Uden, T., Bertaina, A., Abrahamsson, J., Ansari, M., Balduzzi, A., Bourquin, J.P., Gerhardt, C., Bierings, M., Hasle, H., Lankester, A., Mischke, K., Moore, A.S., Nivison-Smith, I., Pieczonka, A., Peters, C., Sedlacek, P., Reinhardt, D., Stein, J., Versluys, B., Wachowiak, J., Willems, L., Zimmermann, M., Locatelli, F., Sauer, M.G. (2020). Outcome of children relapsing after first allogeneic haematopoietic stem cell transplantation for acute myeloid leukaemia: a retrospective I-BFM analysis of 333 children. *Br J Haematol* 189, 745-750. DOI: 10.1111/bjh.16441
- Wehner, J.E., Boehne, M., David, S., Brand, K., Tiede, A., Bikker, R. (2020). Activated Clotting Time (ACT) for Monitoring of Low-Dose Heparin: Performance Characteristics in Healthy Adults and Critically Ill Patients. *Clin Appl Thromb Hemost* 26. DOI: 10.1177/1076029620975494

Wulff, A., Mast, M., Hassler, M., Montag, S., Marscholke, M., Jack, T. (2020). Designing an openEHR-Based Pipeline for Extracting and Standardizing Unstructured Clinical Data Using Natural Language Processing Methods *Inf Med* 59,e64-e78. DOI: 10.1055/s-0040-1716403

Übersichtsarbeiten

Agrawal, V., Lahm, T., Hansmann, G., Hemnes, A.R. (2020). Molecular mechanisms of right ventricular dysfunction in pulmonary arterial hypertension: focus on the coronary vasculature, sex hormones, and glucose/lipid metabolism *Cardiovasc Diagn Ther* 10,1522-1540. DOI: 10.21037/cdt-20-404

Andersen, A., van der Feen, D.E., Andersen, S., Schultz, J.G., Hansmann, G., Bogaard, H.J. (2020). Animal models of right heart failure *Cardiovasc Diagn Ther* 10,1561-1579. DOI: 10.21037/cdt-20-400

Bernardo, R.J., Haddad, F., Couture, E.J., Hansmann, G., de Jesus Perez, V.A., Denault, A.Y., de Man, F.S., Amsallem, M. (2020). Mechanics of right ventricular dysfunction in pulmonary arterial hypertension and heart failure with preserved ejection fraction *Cardiovasc Diagn Ther* 10,1580-1603. DOI: 10.21037/cdt-20-479

Hamrick, S.E.G., Sallmon, H., Rose, A.T., Porras, D., Shelton, E.L., Reese, J., Hansmann, G. (2020). Patent Ductus Arteriosus of the Preterm Infant *Pediatrics* 146,DOI: 10.1542/peds.2020-1209

Hansmann, G., Bezzerides, V. (2020). Paediatric/congenital cardiology physician scientists-An endangered species *Eur J Clin Invest* 50,e13367. DOI: 10.1111/eci.13367

Hansmann, G., Sallmon, H., Roehr, C.C., Kourembanas, S., Austin, E.D., Koestenberger, M., European Pediatric Pulmonary Vascular Disease Network (EPPVDN). (2021). Pulmonary hypertension in bronchopulmonary dysplasia *Pediatr Res* 89,446-455. DOI: 10.1038/s41390-020-0993-4

Hasan, B., Hansmann, G., Budts, W., Heath, A., Hoodbhoy, Z., Jing, Z.C., Koestenberger, M., Meinel, K., Mocumbi, A.O., Radchenko, G.D., Sallmon, H., Sliwa, K., Kumar, R.K., European Pediatric Pulmonary Vascular Disease Network (EPPVDN), endorsed by AEPC, CSC, PASCAR, PCS, and PCSI. (2020). Challenges and Special Aspects of Pulmonary Hypertension in Middle- to Low-Income Regions: JACC State-of-the-Art Review *J Am Coll Cardiol* 75,2463-2477. DOI: 10.1016/j.jacc.2020.03.047

Inampudi, C., Tedford, R.J., Hemnes, A.R., Hansmann, G., Bogaard, H.J., Koestenberger, M., Lang, I.M., Brittain, E.L. (2020). Treatment of right ventricular dysfunction and heart failure in pulmonary arterial hypertension *Cardiovasc Diagn Ther* 10,1659-1674. DOI: 10.21037/cdt-20-348

Klinke, A., Schubert, T., Müller, M., Legchenko, E., Zelt, J.G.E., Shimauchi, T., Napp, L.C., Rothman, A.M.K., Bonnet, S., Stewart, D.J., Hansmann, G., Rudolph, V. (2020). Emerging therapies for right ventricular dysfunction and failure *Cardiovasc Diagn Ther* 10,1735-1767. DOI: 10.21037/cdt-20-592

Koestenberger, M., Bogaard, H.J., Hansmann, G. (2020). Getting to the bottom of right heart failure *Cardiovasc Diagn Ther* 10,1517-1521. DOI: 10.21037/cdt-20-565

Kökeny, G., Calvier, L., Legchenko, E., Chouvarine, P., Mozes, M.M., Hansmann, G. (2020). PPARgamma is a gatekeeper for extracellular matrix and vascular cell homeostasis: beneficial role in pulmonary hypertension and renal/cardiac/pulmonary fibrosis. *Curr Opin Nephrol Hypertens* 29,171-179. DOI: 10.1097/MNH.0000000000000580

Meinel, K., Koestenberger, M., Sallmon, H., Hansmann, G., Pielek, G.E. (2020). Echocardiography for the Assessment of Pulmonary Hypertension and Congenital Heart Disease in the Young *Diagnosics (Basel)* 11,DOI: 10.3390/diagnostics11010049

Santens, B., Van De Bruaene, A., De Meester, P., D'Alto, M., Reddy, S., Bernstein, D., Koestenberger, M., Hansmann, G., Budts, W. (2020). Diagnosis and treatment of right ventricular dysfunction in congenital heart disease *Cardiovasc Diagn Ther* 10,1625-1645. DOI: 10.21037/cdt-20-370

Toshner, M., Spiekerkoetter, E., Bogaard, H., Hansmann, G., Nikkho, S., Prins, K.W. (2020). Repurposing of medications for pulmonary arterial hypertension *Pulm Circ* 10,DOI: 10.1177/2045894020941494

Case reports

Giagnorio, R., Hansmann, G. (2020). Mineralocorticoid receptor blockade improves pulmonary hypertension and right ventricular function in bronchopulmonary dysplasia: a case report *Cardiovasc Diagn Ther* 10,1686-1690. DOI: 10.21037/cdt.2020.02.05

Sallmon, H., Berger, F., Weber, S.C., Fischer, H.S., Hansmann, G., Opgen-Rhein, B. (2020). Interventional creation of an endogenous reverse Potts shunt in an infant with pulmonary hypertension and genetic surfactant disorder—a case report *Cardiovasc Diagn Ther* 10,1696-1700. DOI: 10.21037/cdt.2020.03.11

Editorials

Hansmann, G., Rich, S., Maron, B.A. (2020). Cardiac catheterization in pulmonary hypertension: doing it right, with a catheter on the left *Cardiovasc Diagn Ther* 10,1718-1724. DOI: 10.21037/cdt-20-483

Koestenberger, M., Hansmann, G. (2020). Left Ventricular Geometry and Near-Simultaneous Invasive Hemodynamics in Pediatric Pulmonary Hypertension *Circ Cardiovasc Imaging* 13,e010787. DOI: 10.1161/CIRCIMAGING.120.010787

Buchbeiträge, Monografien

Kaussen, T. (2021). Compartment Syndromes in Children and Adolescents. In: Compartment Syndrome, Coccolini F., eds. (Cham: Springer International Publishing) pp. 175-190

Promotionen

Lamping, F.B. (2019). Development and validation of a diagnostic model for early differentiation of sepsis and non-infectious SIRS in critically ill children: a data-driven approach using machine-learning algorithms. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Paetzel, V. (2019). Herzzeitvolumen, statische Volumenparameter und Flüssigkeitsbilanz - neue Aspekte der Hämodynamik bei Kindern nach kardiochirurgischer Operation. Dissertation, Medizinische Hochschule Hannover, 2020

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Originalpublikationen

Ahlenstiel-Grunow, T., Liu, X., Schild, R., Oh, J., Taylan, C., Weber, L.T., Staude, H., Verboom, M., Schröder, C., Sabau, R., Grosshennig, A., Pape, L. (2021). Steering Transplant Immunosuppression by Measuring Virus-Specific T Cell Levels: The Randomized, Controlled IVIST Trial *J Am Soc Nephrol* 32,502-516. DOI: 10.1681/ASN.2020050645

Ahlenstiel-Grunow, T., Pape, L. (2021). Virus-specific T cells in pediatric renal transplantation *Pediatr Nephrol* 36,789-796. DOI: 10.1007/s00467-020-04522-6

Ahlenstiel-Grunow, T., Sester, M., Sester, U., Hirsch, H.H., Pape, L. (2020). BK Polyomavirus-specific T Cells as a Diagnostic and Prognostic Marker for BK Polyomavirus Infections After Pediatric Kidney Transplantation *Transplantation* 104,2393-2402. DOI: 10.1097/TP.0000000000003133

Balzer, M.S., Rong, S., Nordlohne, J., Zemtsovski, J.D., Schmidt, S., Stapel, B., Bartosova, M., von Vietinghoff, S., Haller, H., Schmitt, C.P., Shushakova, N. (2020). SGLT2 Inhibition by Intraperitoneal Dapagliflozin Mitigates Peritoneal Fibrosis and Ultrafiltration Failure in a Mouse Model of Chronic Peritoneal Exposure to High-Glucose Dialysate Biomolecules 10,1573. DOI: 10.3390/biom10111573

Bärhold, F., Meyer, U., Neugebauer, A.K., Thimm, E.M., Lier, D., Rosenbaum-Fabian, S., Och, U., Fekete, A., Möslinger, D., Rohde, C., Beblo, S., Hochuli, M., Bogovic, N., Korpel, V., Dahl, S.V., Mayorandan, S., Fischer, A., Freisinger, P., Dokoupil, K., Heddrich-Ellerbrok, M., Jorg-Streller, M., van Teeffelen-Heithoff, A., Lahl, J., Das, A.M. (2020). Hepatorenal Tyrosinaemia: Impact of a Simplified Diet on Metabolic Control and Clinical Outcome *Nutrients* 13,DOI: 10.3390/nu13010134

Becker, J., Ravens, E., Pape, L., Ernst, G. (2020). Somatic outcomes of young people with chronic diseases participating in transition programs: a systematic review. *Journal of Transition Medicine* 2,20200003. DOI: 10.1515/jtm-2020-0003

Beetz, O., Weigle, C.A., Nogly, R., Klemptner, J., Pape, L., Richter, N., Vondran, F.W.R. (2021). Surgical complications in pediatric kidney transplantation—Incidence, risk factors, and effects on graft survival: A retrospective single-center study. *Pediatr Transplant* 25,e13871. DOI: 10.1111/ptr.13871

Beige, J., Drube, J., von der Leyen, H., Pape, L., Rupprecht, H. (2020). Früherkennung mittels Urinproteomanalyse: Ein neues Konzept im Patientenmanagement der diabetischen Nephropathie *Internist (Berl)* 61,1094-1105. DOI: 10.1007/s00108-020-00863-4

- Berenguer, M., Di Maira, T., Baumann, U., Mirza, D.F., Heneghan, M.A., Klempnauer, J.L., Bennet, W., Ericzon, B.G., Line, P.D., Lodge, P.A., Zieniewicz, K., Watson, C.J.E., Metselaar, H.J., Adam, R., Karam, V., Aguilera, V., all the other contributing centers (www.eltr.org) and the European Liver and Intestine Transplant Association (ELITA). (2021). Characteristics, trends and Outcomes of Liver Transplantation for Primary sclerosing cholangitis in female vs male patients: An analysis from the European Liver Transplant Registry. *Transplantation* *105*,2255-2262. DOI: 10.1097/TP.0000000000003542
- Boeckhaus, J., Hoefele, J., Riedhammer, K.M., Tönshoff, B., Ehren, R., Pape, L., Latta, K., Fehrenbach, H., Lange-Sperandio, B., Kettwig, M., Hoyer, P., Staude, H., Konrad, M., John, U., Gellermann, J., Hoppe, B., Galiano, M., Gessner, M., Pohl, M., Bergmann, C., Friede, T., Gross, O., GPN Study Group and EARLY PRO-TECT Alport Investigators. (2021). Precise variant interpretation, phenotype ascertainment, and genotype-phenotype correlation of children in the EARLY PRO-TECT Alport trial *Clin Genet* *99*,143-156. DOI: 10.1111/cge.13861
- Böske, A.K., Sander, A., Sykora, K.W., Baumann, U., Pfister, E.D. (2020). Hepatitis-assoziierte aplastische Anämie im Kindesalter *Klin Padiatr* *232*,151-158. DOI: 10.1055/a-1108-1553
- Brogden, G., Shammas, H., Walters, F., Maalouf, K., Das, A.M., Naim, H.Y., Rizk, S. (2020). Different Trafficking Phenotypes of Niemann-Pick C1 Gene Mutations Correlate with Various Alterations in Lipid Storage, Membrane Composition and Miglustat Amenability. *Int J Mol Sci* *27*,2101. DOI: 10.3390/ijms21062101
- Bünemann, M., Bauer-Hohmann, M., Klewitz, F., Kyaw Tha Tun, E.M., Tegtbur, U., Pape, L., Schiffer, L., Schiffer, M., de Zwaan, M., Nöhre, M. (2020). Beliefs about immunosuppressant medication and correlates in a German kidney transplant population *J Psychosom Res* *132*,109989. DOI: 10.1016/j.jpsychores.2020.109989
- Burgmaier, K., Ariceta, G., Bald, M., Buescher, A.K., Burgmaier, M., Erger, F., Gessner, M., Gokce, I., König, J., Kowalewska, C., Massella, L., Mastrangelo, A., Mekahli, D., Pape, L., Patzer, L., Potemkina, A., Schalk, G., Schild, R., Shroff, R., Szczepanska, M., Taranta-Janusz, K., Tkaczyk, M., Weber, L.T., Wühl, E., Wurm, D., Wygoda, S., Zagodzón, I., Dötsch, J., Oh, J., Schaefer, F., Liebau, M.C., ARegPKD consortium. (2020). Severe neurological outcomes after very early bilateral nephrectomies in patients with autosomal recessive polycystic kidney disease (ARPKD) *Sci Rep* *10*,16025. DOI: 10.1038/s41598-020-71956-1
- Christians, A., Weiss, A.C., Martens, H., Klopff, M.G., Hennies, I., Haffner, D., Kispert, A., Weber, R.G. (2020). Inflammation-like changes in the urothelium of Lifr-deficient mice and LIFR-haploinsufficient humans with urinary tract anomalies *Hum Mol Genet* *29*,1192-1204. DOI: 10.1093/hmg/ddaa048
- Coughlin, C.R., 2nd, Tseng, L.A., Abdenur, J.E., Ashmore, C., Boemer, F., Bok, L.A., Boyer, M., Buhas, D., Clayton, P.T., Das, A., Dekker, H., Evangeliou, A., Feillet, F., Footitt, E.J., Gospe, S.M., Jr, Hartmann, H., Kara, M., Kristensen, E., Lee, J., Lilje, R., Longo, N., Lunsing, R.J., Mills, P., Papadopoulou, M.T., Pearl, P.L., Piazzon, F., Plecko, B., Saini, A.G., Santra, S., Sjarif, D.R., Stockler-Ipsiroglu, S., Striano, P., Van Hove, J.L.K., Verhoeven-Duif, N.M., Wijburg, F.A., Zuberi, S.M., van Karnebeek, C.D.M. (2021). Consensus guidelines for the diagnosis and management of pyridoxine-dependent epilepsy due to alpha-aminoadipic semialdehyde dehydrogenase deficiency *J Inher Metab Dis* *44*,178-192. DOI: 10.1002/jimd.12332
- Dabke, P., Brogden, G., Naim, H.Y., Das, A.M. (2020). Ketogenic Diet: Impact on Cellular Lipids in Hippocampal Murine Neurons. *Nutrients* *12*,3870. DOI: 10.3390/nu12123870
- Dabke, P., Das, A.M. (2020). Mechanism of Action of Ketogenic Diet Treatment: Impact of Decanoic Acid and Beta-Hydroxybutyrate on Sirtuins and Energy Metabolism in Hippocampal Murine Neurons. *Nutrients* *12*,2379. DOI: 10.3390/nu12082379
- de Boer, S., Klewitz, F., Bauer-Hohmann, M., Schiffer, L., Tegtbur, U., Pape, L., Schiffer, M., de Zwaan, M., Nöhre, M. (2020). Knowledge About Immunosuppressant Medication and Its Correlates in a German Kidney Transplant Population - Results of a KTx360 degrees Substudy Patient Prefer Adherence *14*,1699-1708. DOI: 10.2147/PPA.S269201
- Dona, D., Torres Canizales, J., Benetti, E., Cananzi, M., De Corti, F., Calore, E., Hierro, L., Ramos Boluda, E., Melgosa Hijosa, M., Garcia Guereta, L., Perez Martinez, A., Barrios, M., Costa Reis, P., Teixeira, A., Lopes, M.F., Kalicinski, P., Branchereau, S., Boyer, O., Debray, D., Sciveres, M., Wennberg, L., Fischler, B., Barany, P., Baker, A., Baumann, U., Schwerk, N., Nicastro, E., Candusso, M., Toporski, J., Sokal, E., Stephenne, X., Lindemans, C., Miglinas, M., Rascon, J., Jara, P., ERN TransplantChild. (2020). Pediatric transplantation in Europe during the COVID-19 pandemic: Early impact on activity and healthcare *Clin Transplant* *34*,e14063. DOI: 10.1111/ctr.14063
- Döring, J.H., Saffari, A., Bast, T., Brockmann, K., Ehrhardt, L., Fazeli, W., Janzarik, W.G., Kluger, G., Muhle, H., Moller, R.S., Platzer, K., Santos, J.L., Bache, I., Bertsche, A., Bonfert, M., Borggräfe, I., Broser, P.J., Datta, A.N., Hammer, T.B., Hartmann, H., Hasse-Wittmer, A., Henneke, M., Kühne, H., Lemke, J.R., Maier, O., Matzker, E., Merckenschlager, A., Opp, J., Patzer, S., Rostasy, K., Stark, B., Strzelczyk, A., von Stülpnagel, C., Weber, Y., Wolff, M., Zirn, B., Hoffmann, G.F., Kölker, S., Syrbe, S. (2020). The Phenotypic Spectrum of PRRT2-Associated Paroxysmal Neurologic Disorders in Childhood *Biomedicines* *8*,DOI: 10.3390/biomedicines8110456

- Ewert, A., Leifheit-Nestler, M., Hohenfellner, K., Büscher, A., Kemper, M.J., Oh, J., Billing, H., Thumfart, J., Stangl, G., Baur, A.C., Föller, M., Feger, M., Weber, L.T., Acham-Roschitz, B., Arbeiter, K., Tönshoff, B., Zivicnjak, M., Haffner, D. (2020). Bone and Mineral Metabolism in Children with Nephropathic Cystinosis Compared with other CKD Entities. *J Clin Endocrinol Metab* 105. DOI: 10.1210/clinem/dgaa267
- Fedderson, N., Pape, L., Beneke, J., Brand, K., Prüfe, J. (2021). Adherence in pediatric renal recipients and its effect on graft outcome, a single-center, retrospective study *Pediatr Transplant* 25:e13922. DOI: 10.1111/ptr.13922
- Francis, A., Johnson, D.W., Melk, A., Foster, B.J., Blazek, K., Craig, J.C., Wong, G. (2020). Survival after Kidney Transplantation during Childhood and Adolescence *Clin J Am Soc Nephrol* 15:392-400. DOI: 10.2215/CJN.07070619
- Greite, R., Derlin, K., Hensen, B., Thorenz, A., Rong, S., Chen, R., Hellms, S., Jang, M.S., Bräsen, J.H., Meier, M., Willenberg, I., Immenschuh, S., Haller, H., Luft, F.C., Panigrahy, D., Hwang, S.H., Hammock, B.D., Schebb, N.H., Gueler, F. (2020). Early antihypertensive treatment and ischemia-induced acute kidney injury. *Am J Physiol Renal Physiol* 319:F563-F570. DOI: 10.1152/ajprenal.00078.2020
- Gross, O., Tönshoff, B., Weber, L.T., Pape, L., Latta, K., Fehrenbach, H., Lange-Sperandio, B., Zappel, H., Hoyer, P., Staude, H., König, S., John, U., Gellermann, J., Hoppe, B., Galiano, M., Hoecker, B., Ehren, R., Lerch, C., Kashtan, C.E., Harden, M., Boeckhaus, J., Friede, T., German Pediatric Nephrology (GPN) Study Group and EARLY PRO-TECT Alport Investigators. (2020). A multicenter, randomized, placebo-controlled, double-blind phase 3 trial with open-arm comparison indicates safety and efficacy of nephroprotective therapy with ramipril in children with Alport's syndrome *Kidney Int* 97:1275-1286. DOI: 10.1016/j.kint.2019.12.015
- Hammer, J., Memaran, N., Huber, W.D., Hammer, K. (2020). Development and validation of the paediatric Carbohydrate Perception Questionnaire (pCPQ), an instrument for the assessment of carbohydrate-induced gastrointestinal symptoms in the paediatric population. *Neurogastroenterol Motil* 32:e13934. DOI: 10.1111/nmo.13934
- Hanke, A.A., Sundermeier, T., Boeck, H.T., Schieffer, E., Boyen, J., Braun, A.C., Rolff, S., Stein, L., Kück, M., Schiffer, M., Pape, L., de Zwaan, M., Haufe, S., Kerling, A., Tegtbur, U., Nohre, M. (2020). Influence of Officially Ordered Restrictions During the First Wave of COVID-19 Pandemic on Physical Activity and Quality of Life in Patients after Kidney Transplantation in a Telemedicine Based Aftercare Program-A KTx360 degrees Sub Study *Int J Environ Res Public Health* 17:9144. DOI: 10.3390/ijerph17239144
- Heard, J.M., Vrinten, C., Schlender, M., Bellettato, C.M., van Lingen, C., Scarpa, M., MetabERN collaboration group. (2020). Availability, accessibility and delivery to patients of the 28 orphan medicines approved by the European Medicine Agency for hereditary metabolic diseases in the MetabERN network *Orphanet J Rare Dis* 15:3. DOI: 10.1186/s13023-019-1280-5
- Heiderich, S., Dennhardt, N., Hartmann, H., Kluger, G.J., Sümpelmann, R., Herberhold, T. (2020). Stability of 0.5% Glucose-Containing Balanced Electrolyte Solutions for Patients on Ketogenic Diets: A Laboratory Study *Neuropediatrics* 51:397-400. DOI: 10.1055/s-0040-1715634
- Heinemann, N.C., Tischer-Zimmermann, S., Wittke, T.C., Eigendorf, J., Kerling, A., Framke, T., Melk, A., Heuft, H.G., Blasczyk, R., Maecker-Kolhoff, B., Eiz-Vesper, B. (2020). High-intensity interval training in allogeneic adoptive T-cell immunotherapy - a big HIT? *J Transl Med* 18:148. DOI: 10.1186/s12967-020-02301-3
- Holle, J., Kirchner, M., Okun, J., Bayazit, A.K., Obrycki, L., Canpolat, N., Bulut, I.K., Azukaitis, K., Duzova, A., Ranchin, B., Shroff, R., Candan, C., Oh, J., Klaus, G., Lugani, F., Gimpel, C., Büscher, R., Yilmaz, A., Baskin, E., Erdogan, H., Zalozyc, A., Ozcelik, G., Drozd, D., Jankauskiene, A., Nobili, F., Melk, A., Querfeld, U., Schaefer, F., 4C Study Consortium. (2020). Serum indoxyl sulfate concentrations associate with progression of chronic kidney disease in children *PLoS One* 15:e0240446. DOI: 10.1371/journal.pone.0240446
- Husain, R.A., Grimm, M., Wagner, M., Hennings, J.C., Marx, C., Feichtinger, R.G., Saadi, A., Rostasy, K., Radelfahr, F., Bevo, A., Döbler-Neumann, M., Hartmann, H., Colleaux, L., Cordts, I., Kobeleva, X., Darvish, H., Bakhtiari, S., Kruer, M.C., Besse, A., Ng, A.C., Chiang, D., Bolduc, F., Tafakhori, A., Mane, S., Ghasemi Firouzabadi, S., Huebner, A.K., Buchert, R., Beck-Woedl, S., Müller, A.J., Laugwitz, L.,
- Nägele, T., Wang, Z.Q., Strom, T.M., Sturm, M., Meitinger, T., Klockgether, T., Riess, O., Klopstock, T., Brandl, U., Hübner, C.A., Deschauer, M., Mayr, J.A., Bonnen, P.E., Krägeloh-Mann, I., Wortmann, S.B., Haack, T.B. (2020). Bi-allelic HPDL Variants Cause a Neurodegenerative Disease Ranging from Neonatal Encephalopathy to Adolescent-Onset Spastic Paraplegia *Am J Hum Genet* 107:364-373. DOI: 10.1016/j.ajhg.2020.06.015
- Jara, P., Baker, A., Baumann, U., Borobia, A.M., Branchereu, S., Candusso, M., Carcas, A.J., Chardot, C., Cobas, J., D'Antiga, L., Ferreras, C., Fitzpatrick, E., Frauca, E., Hernandez-Oliveros, F., Kalicinski, P., Lindemans, C., Lopes, M.F., Lopez-Granados, E., de Magnee, C., Mota, C., Munoz, J.M., Ojeda, J.J., Perez-Martinez, A., Perilongo, G., Rascon, J., Sciveres, M., Stone, R., Tarutis, V., Toporski, J., Torres, J.M., Wennberg, L., ERN TransplantChild. (2020). Cross-cutting view of current challenges in paediatric solid organ and haematopoietic stem cell transplantation in Europe: the European Reference Network TransplantChild. *Orphanet J Rare Dis* 15:16. DOI: 10.1186/s13023-020-1293-0

- Kanzelmeyer, N.K., Lerch, C., Ahlenstiel-Grunow, T., Bräsen, J.H., Haffner, D., Pape, L. (2020). The role of protocol biopsies after pediatric kidney transplantation *Medicine (Baltimore)* *99*,e20522. DOI: 10.1097/MD.00000000000020522
- Koot, B.G.P., Kelly, D.A., Hadzic, N., Gonzales, E., Hierro, L., Davenport, M., Keil, R., Fockens, P., Baumann, U. (2020). Endoscopic Retrograde Cholangiopancreatography in Infants: Availability Under Threat: A Survey on Availability, Need, and Clinical Practice in Europe and Israel. *J Pediatr Gastroenterol Nutr* *71*,e54-e58. DOI: 10.1097/MPG.0000000000002752
- Lemke, J., Schild, R., Konrad, M., Pape, L., Oh, J., Members of the German Society of Pediatric Nephrology (GPN). (2021). Distribution and management of the pediatric refugee population with renal replacement: A German pediatric cohort *Pediatr Nephrol* *36*,271-277. DOI: 10.1007/s00467-019-04374-9
- Lenders, M., Nordbeck, P., Kurschat, C., Karabul, N., Kaufeld, J., Hennermann, J.B., Patten, M., Cybulla, M., Müntze, J., Üceyler, N., Liu, D., Das, A.M., Sommer, C., Pogoda, C., Reiermann, S., Duning, T., Gaedeke, J., Stumpfe, K., Blaschke, D., Brand, S.M., Mann, W.A., Kampmann, C., Muschol, N., Canaan-Kühl, S., Brand, E. (2020). Treatment of Fabry's Disease With Migalastat: Outcome From a Prospective Observational Multicenter Study (FAMOUS). *Clin Pharmacol Ther* *108*,326-337. DOI: 10.1002/cpt.1832
- Li, D.K., Khan, M.R., Wang, Z., Chongsrisawat, V., Swangsak, P., Teufel-Schäfer, U., Engelmann, G., Goldschmidt, I., Baumann, U., Tokuhara, D., Cho, Y., Rowland, M., Mjelle, A.B., Ramm, G.A., Lewindon, P.J., Witters, P., Cassiman, D., Ciuca, I.M., Prokop, L.D., Haffar, S., Corey, K.E., Murad, M.H., Furuya, K.N., Bazerbachi, F. (2020). Normal liver stiffness and influencing factors in healthy children: An individual participant data meta-analysis. *Liver Int* *40*,2602-2611. DOI: 10.1111/liv.14658
- Luirink, I.K., Hutten, B.A., Greber-Platzer, S., Kolovou, G.D., Dann, E.J., de Ferranti, S.D., Taylan, C., Bruckert, E., Saheb, S., Oh, J., Driemeyer, J., Farnier, M., Pape, L., Schmitt, C.P., Novoa, F.J., Maeser, M., Masana, L., Shahrani, A., Wiegman, A., Groothoff, J.W. (2020). Practice of lipoprotein apheresis and short-term efficacy in children with homozygous familial hypercholesterolemia: Data from an international registry *Atherosclerosis* *299*,24-31. DOI: 10.1016/j.atherosclerosis.2020.01.031
- Martens, H., Hennies, I., Getwan, M., Christians, A., Weiss, A.C., Brand, F., Gjerstad, A.C., Christians, A., Gucev, Z., Geffers, R., Seeman, T., Kispert, A., Tasic, V., Bjerre, A., Lienkamp, S.S., Haffner, D., Weber, R.G. (2020). Rare heterozygous GDF6 variants in patients with renal anomalies *Eur J Hum Genet* *28*,1681-1693. DOI: 10.1038/s41431-020-0678-9
- Märtner, E.M.C., Maier, E.M., Mengler, K., Thimm, E., Schiergens, K.A., Marquardt, T., Santer, R., Weinhold, N., Marquardt, I., Das, A.M., Freisinger, P., Grünert, S.C., Vossbeck, J., Steinfeld, R., Baumgartner, M.R., Beblo, S., Dieckmann, A., Näge, A., Lindner, M., Heringer-Seifert, J., Lenz, D., Hoffmann, G.F., Mühlhausen, C., Ensenaer, R., Garbade, S.F., Kölker, S., Boy, N. (2021). Impact of interventional and non-interventional variables on anthropometric long-term development in glutaric aciduria type 1: A national prospective multi-centre study *J Inher Metab Dis* *44*,629-638. DOI: 10.1002/jimd.12335
- Mayer, U., Schmitz, J., Bräsen, J.H., Pape, L. (2020). Crescentic glomerulonephritis in children. *Pediatr Nephrol* *35*,829-842. DOI: 10.1007/s00467-019-04436-y
- Mazhari, A.L., de Zwaan, M., Tegtbur, U., Pape, L., Schiffer, M. (2020). Die Versorgung von Patienten nach Nierentransplantation außerhalb der Regelversorgung: Herausforderungen und Chancen für die Nachsorge von Patienten im Projekt NTx360°. *Nieren Hochdruck* *49*,381-389. DOI: 10.5414/NHX02133
- Melk, A., Schmidt, B.M.W., Geyer, S., Epping, J. (2020). Sex disparities in dialysis initiation, access to waitlist, transplantation and transplant outcome in German patients with renal disease-A population based analysis *PLoS One* *15*,e0241556. DOI: 10.1371/journal.pone.0241556
- Memaran, N., Küpper, C., Borchert-Mörlins, B., von Wick, A., Bauer, E., Jäckel, E., Maasoumy, B., Vondran, F.W.R., Sugianto, R.I., von der Born, J., Schmidt, B.M.W., Melk, A. (2021). Prospective assessment of subclinical cardiovascular damage and associated factors in liver transplant recipients *Transpl Int* *34*,127-138. DOI: 10.1111/tri.13773
- Memaran, N., Schwalba, M., Borchert-Mörlins, B., von der Born, J., Markefke, S., Bauer, E., von Wick, A., Epping, J., von Maltzahn, N., Heyn-Schmidt, I., Grams, L., Homeyer, D., Kerling, A., Stiesch, M., Tegtbur, U., Haverich, A., Melk, A. (2020). Gesundheit und Fitness von deutschen Schulkindern. *Monatsschr Kinderheilkd* *168*,597-607. DOI: 10.1007/s00112-020-00882-3
- Müller, F., Hummers, E., Hillermann, N., Dopfer, C., Jablonka, A., Friede, T., Simmenroth, A., Wetzke, M. (2020). Factors Influencing the Frequency of Airway Infections in Underage Refugees: A Retrospective, Cross Sectional Study. *Int J Environ Res Public Health* *17*,DOI: 10.3390/ijerph17186823
- Nessler, J., Hug, P., Mandigers, P.J.J., Leegwater, P.A.J., Jagannathan, V., Das, A.M., Rosati, M., Matiasek, K., Sewell, A.C., Kornberg, M., Hoffmann, M., Wolf, P., Fischer, A., Tipold, A., Leeb, T. (2020). Mitochondrial PCK2 Missense Variant in Shetland Sheepdogs with Paroxysmal Exercise-Induced Dyskinesia (PED). *Genes (Basel)* *11*,774. DOI: 10.3390/genes11070774

- Nöhre, M., Schieffer, E., Hanke, A., Pape, L., Schiffer, L., Schiffer, M., de Zwaan, M. (2020). Obesity After Kidney Transplantation-Results of a KTx360 degrees Substudy *Front Psychiatry* *11*,399. DOI: 10.3389/fpsy.2020.00399
- Pape, L., Ahlenstiel-Grunow, T., Birtel, J., Krohne, T.U., Hoppe, B. (2020). Oxalobacter formigenes treatment combined with intensive dialysis lowers plasma oxalate and halts disease progression in a patient with severe infantile oxalosis *Pediatr Nephrol* *35*,1121-1124. DOI: 10.1007/s00467-019-04463-9
- Pecher, S.J., Potthast, A.B., von Versen-Höyneck, F., Das, A.M. (2020). Impact of Short-Term Hypoxia on Sirtuins as Regulatory Elements in HUVECs. *J Clin Med* *9*,E2604 [pii]. DOI: 10.3390/jcm9082604
- Pichler, J., Memaran, N., Huber, W.D., Aufricht, C., Bidmon-Fliegenschnee, B. (2021). Golimumab in adolescents with Crohn's disease refractory to previous tumour necrosis factor antibody. *Acta Paediatr* *110*,661-667. DOI: 10.1111/apa.15522
- Polak, W.G., Fondevila, C., Karam, V., Adam, R., Baumann, U., Germani, G., Nadalin, S., Taimr, P., Toso, C., Troisi, R.I., Zieniewicz, K., Belli, L.S., Duvoux, C. (2020). Impact of COVID-19 on liver transplantation in Europe: alert from an early survey of European Liver and Intestine Transplantation Association and European Liver Transplant Registry. *Transpl Int* *33*,1244-1252. DOI: 10.1111/tri.13680
- Potthast, A.B., Nebl, J., Wasserfurth, P., Haufe, S., Eigendorf, J., Hahn, A., Das, A. (2020). Impact of Nutrition on Short-Term Exercise-Induced Sirtuin Regulation: Vegans Differ from Omnivores and Lacto-Ovo Vegetarians. *Nutrients* *12*,1004. DOI: 10.3390/nu12041004
- Prikhodina, L., Ehrich, J., Shroff, R., Topaloglu, R., Levtchenko, E., European Society for Paediatric Nephrology. (2020). The European Society for Paediatric Nephrology study of pediatric renal care in Europe: comparative analysis 1998-2017 *Pediatr Nephrol* *35*,103-111. DOI: 10.1007/s00467-019-04378-5
- Ravens, E., Becker, J., Pape, L., Ernst, G. (2020). Psychosocial benefit and adherence of adolescents with chronic diseases participating in transition programs: a systematic review. *Journal of Transition Medicine* *2*,20200009-20200009. DOI: 10.1515/jtm-2020-0009
- Rubio-Gozalbo, M.E., Derks, B., Das, A.M., Meyer, U., Möslinger, D., Couce, M.L., Empain, A., Ficicioglu, C., Julia Palacios, N., De Los Santos De Pelegrin, M.M., Rivera, I.A., Scholl-Bürgi, S., Bosch, A.M., Cassiman, D., Demirbas, D., Gautschi, M., Knerr, I., Labrune, P., Skouma, A., Verloo, P., Wortmann, S.B., Treacy, E.P., Timson, D.J., Berry, G.T. (2021). Galactokinase deficiency: lessons from the GalNet registry. *Genet Med* *23*,202-210. DOI: 10.1038/s41436-020-00942-9
- Rymen, D., Lindhout, M., Spanou, M., Ashrafzadeh, F., Benkel, I., Betzler, C., Coubes, C., Hartmann, H., Kaplan, J.D., Ballhausen, D., Koch, J., Lotte, J., Mohammadi, M.H., Rohrbach, M., Dinopoulos, A., Wermuth, M., Willis, D., Brugger, K., Wevers, R.A., Boltshauser, E., Bierau, J., Mayr, J.A., Wortmann, S.B. (2020). Expanding the clinical and genetic spectrum of CAD deficiency: an epileptic encephalopathy treatable with uridine supplementation *Genet Med* *22*,1589-1597. DOI: 10.1038/s41436-020-0933-z
- Schön, A., Leifheit-Nestler, M., Deppe, J., Fischer, D.C., Bayazit, A.K., Obyrycki, L., Canpolat, N., Bulut, I.K., Azukaitis, K., Yilmaz, A., Mir, S., Yalcinkaya, F., Soylemezoglu, O., Melk, A., Stangl, G.I., Behnisch, R., Shroff, R., Bacchetta, J., Querfeld, U., Schaefer, F., Haffner, D., 4C and Study Consortium and the ESPN CKD-MBD Working Group. (2021). Active vitamin D is cardioprotective in experimental uraemia but not in children with CKD Stages 3-5. *Nephrol Dial Transplant* *36*,442-451. DOI: 10.1093/ndt/gfaa227
- Schönermarck, U., Ries, W., Schröppel, B., Pape, L., Dunaj-Kazmierowska, M., Burst, V., Mitzner, S., Basara, N., Starck, M., Schmidbauer, D., Mellmann, A., Dittmer, R., Jeglitsch, M., Haas, C.S. (2019). Relative incidence of thrombotic thrombocytopenic purpura and haemolytic uraemic syndrome in clinically suspected cases of thrombotic microangiopathy *Clin Kidney J* *13*,208-216. DOI: 10.1093/ckj/sfz066
- Schwahn, B.C., Scheffner, T., Stepman, H., Verloo, P., Das, A.M., Fletcher, J., Blom, H.J., Benoist, J.F., Barshop, B.A., Barea, J.J., Feigenbaum, A. (2020). Cystathionine beta synthase deficiency and brain edema associated with methionine excess under betaine supplementation: Four new cases and a review of the evidence *JIMD Rep* *52*,3-10. DOI: 10.1002/jmd.12092
- Sen, P., Helmke, A., Liao, C.M., Sorensen-Zender, I., Rong, S., Bräsen, J.H., Melk, A., Haller, H., von Vietinghoff, S., Schmitt, R. (2020). SerpinB2 Regulates Immune Response in Kidney Injury and Aging. *J Am Soc Nephrol* *31*,983-995. DOI: 10.1681/ASN.2019101085
- Soetje, B., Fuellekrug, J., Haffner, D., Ziegler, W.H. (2020). Application and Comparison of Supervised Learning Strategies to Classify Polarity of Epithelial Cell Spheroids in 3D Culture. *Front Genet* *11*,248. DOI: 10.3389/fgene.2020.00248
- Stenner, H.T., Eigendorf, J., Kerling, A., Kueck, M., Hanke, A.A., Boyen, J., Nelius, A.K., Melk, A., Boethig, D., Bara, C., Hilfiker, A., Berlin, D., Bauersachs, J., Hilfiker-Kleiner, D., Eberhard, J., Stiesch, M., Schippert, C., Haverich, A., Tegtbur, U., Haufe, S. (2020). Effects of six month personalized endurance training on work ability in middle-aged sedentary women: a secondary analysis of a randomized controlled trial. *J Occup Med Toxicol* *15*,8. DOI: 10.1186/s12995-020-00261-4

Stocklassa, T., Borchert-Mörlins, B., Memaran, N., Einecke, G., Schmitt, R., Richter, N., Vondran, F.W., Bauer, E., Markefke, S., Melk, A., Schmidt, B.M.W. (2021). Sex Differences in Subclinical Cardiovascular Organ Damage After Renal Transplantation: A Single-Center Cohort Study *J Womens Health (Larchmt)* *30*,1352-1361. DOI: 10.1089/jwh.2020.8594

Suhrie, A., Hennies, I., Gellermann, J., Büscher, A., Hoyer, P., Waldegger, S., Wygoda, S., Beetz, R., Lange-Sperandio, B., Klaus, G., Konrad, M., Holder, M., Staude, H., Rascher, W., Oh, J., Pape, L., Tönshoff, B., Haffner, D., German Society of Paediatric Nephrology. (2020). Twelve-month outcome in juvenile proliferative lupus nephritis: results of the German registry study *Pediatr Nephrol* *35*,1235-1246. DOI: 10.1007/s00467-020-04501-x

Süsal, C., Kumru, G., Döhler, B., Morath, C., Baas, M., Lutz, J., Unterrainer, C., Arns, W., Aubert, O., Bara, C., Beiras-Fernandez, A., Böhmig, G.A., Bosmüller, C., Diekmann, F., Dutkowski, P., Hauser, I., Legendre, C., Lozanovski, V.J., Mehrabi, A., Melk, A., Minor, T., Mueller, T.F., Pisarski, P., Rostaing, L., Schemmer, P., Schneeberger, S., Schwenger, V., Sommerer, C., Tönshoff, B., Viebahn, R., Viklicky, O., Weimer, R., Weiss, K.H., Zeier, M., Zivcic-Cosic, S., Heemann, U. (2020). Should kidney allografts from old donors be allocated only to old recipients? *Transpl Int* *33*,849-857. DOI: 10.1111/tri.13628

Taylan, C., Driemeyer, J., Schmitt, C.P., Pape, L., Büscher, R., Galiano, M., König, J., Schürfeld, C., Spitthöver, R., Versen, A., Koziolok, M., Marsen, T.A., Stein, H., Schaefer, J.R., Heibges, A., Klingel, R., Oh, J., Weber, L.T., Klaus, G. (2020). Cardiovascular Outcome of Pediatric Patients With Bi-Allelic (Homozygous) Familial Hypercholesterolemia Before and After Initiation of Multimodal Lipid Lowering Therapy Including Lipoprotein Apheresis *Am J Cardiol* *136*,38-48. DOI: 10.1016/j.amjcard.2020.09.015

Theilmann, W., Brandt, C., Bohnhorst, B., Winstroth, A.M., Das, A.M., Gramer, M., Kipper, A., Kalesse, M., Löscher, W. (2021). Hydrolytic biotransformation of the bumetanide ester prodrug DIMAEB to bumetanide by esterases in neonatal human and rat serum and neonatal rat brain-A new treatment strategy for neonatal seizures? *Epilepsia* *62*,269-278. DOI: 10.1111/epi.16746

Tönshoff, B., Tedesco-Silva, H., Ettenger, R., Christian, M., Bjerre, A., Dello Strologo, L., Marks, S.D., Pape, L., Veldandi, U., Lopez, P., Cousin, M., Pandey, P., Meier, M. (2021). Three-year outcomes from the CRADLE study in de novo pediatric kidney transplant recipients receiving everolimus with reduced tacrolimus and early steroid withdrawal *Am J Transplant* *21*,123-137. DOI: 10.1111/ajt.16005

van den Belt, S.M., Heerspink, H.J.L., Kirchner, M., Gracchi, V., Thurn-Valsassina, D., Bayazit, A.K., Niemirska, A., Canpolat, N., Kaplan Bulut, I., Azukaitis, K., Duzova, A., Bacchetta, J., Shroff, R., Paripovic, D., Özcakar, Z.B., Fidan, K., Erdogan, H., Gellermann, J., Wühl, E., de Zeeuw, D., Melk, A., Querfeld, U., Schaefer, F. (2020). Discontinuation of RAAS Inhibition in Children with Advanced CKD *Clin J Am Soc Nephrol* *15*,625-632. DOI: 10.2215/CJN.09750819

Waldron, L.S., Cerisuelo, M.C., Lo, D., Sayed, B.A., Vilca-Melendez, H., Magliocca, J., Lurz, E., Baumann, U., Vondran, F.W.R., Richter, N., von Schweinitz, D., Guba, M., Muensterer, O.J., Berger, M. (2021). Diaphragmatic Hernia following Pediatric Liver Transplantation: An Underappreciated Complication Prone to Recur. *Eur J Pediatr Surg* *31*,396-406. DOI: 10.1055/s-0040-1716882

Weber, L.T., Tönshoff, B., Grenda, R., Bouts, A., Topaloglu, R., Gülhan, B., Printza, N., Awan, A., Battelino, N., Ehren, R., Hoyer, P.F., Novljan, G., Marks, S.D., Oh, J., Prytula, A., Seeman, T., Sweeney, C., Dello Strologo, L., Pape, L. (2021). Clinical practice recommendations for recurrence of focal and segmental glomerulosclerosis/steroid-resistant nephrotic syndrome *Pediatr Transplant* *25*,e13955. DOI: 10.1111/ptr.13955

Zeng, S., Querfeld, U., Feger, M., Haffner, D., Hasan, A.A., Chu, C., Slowinski, T., Bernd Dschietzig, T., Schäfer, F., Xiong, Y., Zhang, B., Rausch, S., Horvathova, K., Lang, F., Karl Krämer, B., Föller, M., Hoher, B. (2020). Relationship between GFR, intact PTH, oxidized PTH, non-oxidized PTH as well as FGF23 in patients with CKD *FASEB J* *34*,15269-15281. DOI: 10.1096/fj.202000596R

Ziegler, W.H., Soetje, B., Marten, L.P., Wiese, J., Burute, M., Haffner, D. (2020). Fibrocystin Is Essential to Cellular Control of Adhesion and Epithelial Morphogenesis. *Int J Mol Sci* *21*,DOI: 10.3390/ijms21145140

Leitlinien von Fachgesellschaften

Bakkaloglu, S.A., Bacchetta, J., Lalayiannis, A.D., Leifheit-Nestler, M., Stabouli, S., Haarhaus, M., Reusz, G., Groothoff, J., Schmitt, C.P., Evenepoel, P., Shroff, R., Haffner, D., European Society for Paediatric Nephrology (ESPN) Chronic Kidney Disease Mineral and Bone Disorder (CKD-MBD) and Dialysis working groups and CKD-MBD working group of the European Renal Association-European Dialysis and Transplant Association (ERA-EDTA). (2021). Bone evaluation in paediatric chronic kidney disease: Clinical practice points from the European Society for Paediatric Nephrology CKD-MBD and Dialysis working groups and CKD-MBD working group of the ERA-EDTA. *Nephrol Dial Transplant* *36*,413-425. DOI: 10.1093/ndt/gfaa210

Bognar, Z., De Luca, D., Domellöf, M., Hadjipanayis, A., Haffner, D., Johnson, M., Kolacek, S., Koletzko, B., Saenz de Pipaon, M., Shingadia, D., Tissieres, P., Titomanlio, L., Topaloglu, R., Trück, J. (2020). Promoting Breastfeeding and Interaction of Pediatric Associations With Providers of Nutritional Products *Front Pediatr* *8*,DOI: 10.3389/fped.2020.562870

Gimpel, C., Bergmann, C., Brinkert, F., Cetiner, M., Gembruch, U., Haffner, D., Kemper, M., König, J., Liebau, M., Maier, R.F., Oh, J., Pape, L., Riechardt, S., Rolle, U., Rossi, R., Stegmann, J., Vester, U., Kaisenberg, C.V., Weber, S., Schaefer, F. (2020). Nierenzysten und zystische Nierenerkrankungen bei Kindern (AWMF S2k-Leitlinie) *Klin Padiatr* 232,228-248. DOI: 10.1055/a-1179-0728

Lipska-Zietkiewicz, B.S., Ozaltin, F., Hölttä, T., Bockenbauer, D., Berody, S., Levchenko, E., Vivarelli, M., Webb, H., Haffner, D., Schaefer, F., Boyer, O. (2020). Genetic aspects of congenital nephrotic syndrome: a consensus statement from the ERKNet-ESPN inherited glomerulopathy working group *Eur J Hum Genet* 28,1368-1378. DOI: 10.1038/s41431-020-0642-8

Nelms, C.L., Shaw, V., Greenbaum, L.A., Anderson, C., Desloovere, A., Haffner, D., Oosterveld, M.J.S., Paglialonga, F., Polderman, N., Qizalbash, L., Rees, L., Renken-Terhaerd, J., Tuokkola, J., Vande Walle, J., Shroff, R., Warady, B.A. (2021). Assessment of nutritional status in children with kidney diseases-clinical practice recommendations from the Pediatric Renal Nutrition Taskforce. *Pediatr Nephrol* 36,995-1010. DOI: 10.1007/s00467-020-04852-5

Rees, L., Shaw, V., Qizalbash, L., Anderson, C., Desloovere, A., Greenbaum, L., Haffner, D., Nelms, C., Oosterveld, M., Paglialonga, F., Polderman, N., Renken-Terhaerd, J., Tuokkola, J., Warady, B., Walle, J.V., Shroff, R., Pediatric Renal Nutrition Taskforce. (2021). Delivery of a nutritional prescription by enteral tube feeding in children with chronic kidney disease stages 2-5 and on dialysis-clinical practice recommendations from the Pediatric Renal Nutrition Taskforce. *Pediatr Nephrol* 36,187-204. DOI: 10.1007/s00467-020-04623-2

Trautmann, A., Vivarelli, M., Samuel, S., Gipson, D., Sinha, A., Schaefer, F., Hui, N.K., Boyer, O., Saleem, M.A., Feltran, L., Müller-Deile, J., Becker, J.U., Cano, F., Xu, H., Lim, Y.N., Smoyer, W., Anochie, I., Nakanishi, K., Hodson, E., Haffner, D., International Pediatric Nephrology Association. (2020). IPNA clinical practice recommendations for the diagnosis and management of children with steroid-resistant nephrotic syndrome *Pediatr Nephrol* 35,1529-1561. DOI: 10.1007/s00467-020-04519-1

Übersichtsarbeiten

Guo, S., Zhang, F., Chen, Y., Chen, Y., Shushakova, N., Yao, Y., Zeng, R., Li, J., Lu, X., Chen, R., Haller, H., Gueler, F., Xu, G., Rong, S. (2020). Pre-ischemic renal lavage protects against renal ischemia-reperfusion injury by attenuation of local and systemic inflammatory responses *FASEB J* 34,16307-16318. DOI: 10.1096/fj.201902943R

Haffner, D. (2020). Strategies for Optimizing Growth in Children With Chronic Kidney Disease *Front Pediatr* 8,399. DOI: 10.3389/fped.2020.00399

Letter

Marlais, M., Wlodkowski, T., Vivarelli, M., Pape, L., Tönshoff, B., Schaefer, F., Tullus, K. (2020). The severity of COVID-19 in children on immunosuppressive medication *Lancet Child Adolesc Health* 4,e17-e18. DOI: 10.1016/S2352-4642(20)30145-0

Editorials

Hartmann, H. (2020). Benign Convulsions with Mild Gastroenteritis-An Underestimated Phenomenon? *Neuropediatrics* 51,313-314. DOI: 10.1055/s-0040-1715624

Buchbeiträge, Monografien

Hartmann, H., Cross, H. (2020). Postneonatal epileptic seizures. In: Principles and Practice of Child Neurology in Infancy, Kennedy C., eds. (London: Mac Keith Press) pp. 339-359

Hartmann, H., Neuhäuser, G. (2020). Entwicklungsstörungen : Ursachen, Klinik und Diagnostik. In: Neuropädiatrie, Aksu F., eds. (Bremen, London, Boston: UNI-MED Verlag AG) pp. 274-287

Melk, A. (2020). Nephrologische Diagnostik. In: Pädiatrie: Grundlagen und Praxis, Hoffmann G.F., eds. (Berlin, Heidelberg: Springer Berlin Heidelberg) pp. 2315-2319

Pape, L., Mazhari, A.L., Nolting, H.D., Wolff, J.K., Gertges, R., Hartleib-Otto, M., de Zwaan, M., Tegtbur, U., Lonnemann, G., Kliem, V., Feldhaus, F., Hellrung, N., Schiffer, M. (2020). NTx360° - ein klinik- und sektorenübergreifendes koordiniertes, multimodales, telemedizin-basiertes Nachsorgemodell nach Nierentransplantation. In: Market Access im Gesundheitswesen : Hürden und Zugangswege zur Gesundheitsversorgung, Pfannstiel M.A., eds. (Wiesbaden, Heidelberg: Springer Gabler) pp. 269-286

Habilitation

Leifheit-Nestler, M. (2020). Molekulare Mechanismen der Kardiotoxizität von FGF23 "From bedside to bench". Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Promotionen

Dadgar, N.M., Melk, A., Medizinische Hochschule Hannover and Klinik für Pädiatrische Nieren-, Leber- und Stoffwechselerkrankungen (2019). Hohe Last subklinischen kardiovaskulären Endorganschadens nach pädiatrischer Lebertransplantation Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Diesselhorst, J.K. (2019). Immunmonitoring der pädiatrischen Autoimmunhepatitis Kumulative Dissertation, Medizinische Hochschule Hannover, 2019

Kruschinski, N. (2020). Eine empirische Erhebung zur Problematik der Transition bei angeborenen metabolischen Stoffwechselerkrankungen am Beispiel des Großraums Hannover. Dissertation, Medizinische Hochschule Hannover, 2020

Mayer, K. (2019). Psychosoziales Outcome und Belastbarkeit junger Erwachsener nach pädiatrischer Lebertransplantation Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Meyerhoff, N. (2020). Auswirkungen der Behandlung mit Wachstumshormonen auf die Endgröße von stark kleinwüchsigen Kindern mit X-chromosomaler hypophosphatämischer Rachitis. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Möhring, T. (2018). Immunbiomarker bei Kindern vor Lebertransplantation - eine Analyse innerhalb der ChilSFree Studie. Dissertation, Medizinische Hochschule Hannover, 2020

Wiese, J. (2019). Einfluss von Fibrozystin auf Zentrosomenpositionierung und Zell-Zell Interaktion von Sammelrohr-Epithelzellen der Niere. Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Pädiatrische Pneumologie, Allergologie und Neonatologie – 6710

Originalpublikationen

Aydin, M., Naumova, E.A., Lutz, S., Meyer-Bahlburg, A., Arnold, W.H., Kreppel, F., Ehrhardt, A., Postberg, J., Wirth, S. (2020). Do Current Asthma-Preventive Measures Appropriately Face the World Health Organization's Concerns: A Study Presentation of a New Clinical, Prospective, Multicentric Pediatric Asthma Exacerbation Cohort in Germany *Front Pediatr* 8,574462. DOI: 10.3389/fped.2020.574462

Armaroli, G., Klein, A., Ganser, G., Ruehlmann, M.J., Dressler, F., Hospach, A., Minden, K., Trauzeddel, R., Foeldvari, I., Kuemmerle-Deschner, J., Weller-Heinemann, F., Urban, A., Horneff, G. (2020). Long-term safety and effectiveness of etanercept in JIA: an 18-year experience from the BiKeR registry. *Arthritis Res Ther* 22,258. DOI: 10.1186/s13075-020-02326-5

Becker, T., Pich, A., Tamm, S., Hedtfeld, S., Ibrahim, M., Altmüller, J., Dalibor, N., Toliat, M.R., Janciauskiene, S., Tümmler, B., Stanke, F. (2020). Genetic information from discordant sibling pairs points to ESRP2 as a candidate trans-acting regulator of the CF modifier gene SCNN1B *Sci Rep* 10,22447. DOI: 10.1038/s41598-020-79804-y

Behrens, G.M.N., Cossmann, A., Stankov, M.V., Schulte, B., Streeck, H., Förster, R., Bosnjak, B., Willenzon, S., Boeck, A.L., Thu Tran, A., Thiele, T., Graalman, T., Kayser, M.Z., Zychlinsky Scharff, A., Dopfer, C., Horke, A., Pink, I., Witte, T., Wetzke, M., Ernst, D., Jablonka, A., Happle, C. (2020). Strategic Anti-SARS-CoV-2 Serology Testing in a Low Prevalence Setting: The COVID-19 Contact (CoCo) Study in Healthcare Professionals *Infect Dis Ther* 9,837-849. DOI: 10.1007/s40121-020-00334-1

Behrens, G.M.N., Cossmann, A., Stankov, M.V., Witte, T., Ernst, D., Happle, C., Jablonka, A. (2020). Perceived versus proven SARS-CoV-2-specific immune responses in health-care professionals *Infection* 48,631-634. DOI: 10.1007/s15010-020-01461-0

Blockus, S., Sake, S.M., Wetzke, M., Grethe, C., Graalman, T., Pils, M., Le Goffic, R., Galloux, M., Prochnow, H., Rox, K., Hüttel, S., Rupcic, Z., Wiegmann, B., Dijkman, R., Rameix-Welti, M.A., Eleouet, J.F., Duprex, W.P., Thiel, V., Hansen, G., Brönstrup, M., Haid, S., Pietschmann, T. (2020). Labyrinthopeptins as virolytic inhibitors of respiratory syncytial virus cell entry *Antiviral Res* 177,104774. DOI: 10.1016/j.antiviral.2020.104774

Boal-Carvalho, I., Mazel-Sanchez, B., Silva, F., Garnier, L., Yildiz, S., Bonifacio, J.P., Niu, C., Williams, N., Francois, P., Schwerk, N., Schöning, J., Carlens, J., Viemann, D., Hugues, S., Schmolke, M. (2020). Influenza A viruses limit NLRP3-NEK7-complex formation and pyroptosis in human macrophages *EMBO Rep* 21,e50421. DOI: 10.15252/embr.202050421

Brinkert, K., Hedtfeld, S., Burhop, A., Gastmeier, R., Gad, P., Wedekind, D., Kloth, C., Rothschild, J., Lachmann, N., Hetzel, M., Jirno, A.C., Lopez-Rodriguez, E., Brandenberger, C., Hansen, G., Schambach, A., Ackermann, M., Tümmler, B., Munder, A. (2021). Rescue from *Pseudomonas aeruginosa* airway infection via stem cell transplantation *Mol Ther* 29,1324-1334. DOI: 10.1016/j.ymthe.2020.12.003

Cramer, N., Fischer, S., Hedtfeld, S., Dorda, M., Tümmler, B. (2020). Intracolon competitive fitness of longitudinal cystic fibrosis *Pseudomonas aeruginosa* airway isolates in liquid cultures *Environ Microbiol* 22,2536-2549. DOI: 10.1111/1462-2920.14924

- Dedieu, C., Albert, M.H., Mahlaoui, N., Hauck, F., Hedrich, C., Baumann, U., Warnatz, K., Roesler, J., Speckmann, C., Schulte, J., Fischer, A., Blanche, S., von Bernuth, H., Kühl, J.S. (2021). Outcome of chronic granulomatous disease - Conventional treatment vs stem cell transplantation *Pediatr Allergy Immunol* *32*,576-585. DOI: 10.1111/pai.13402
- Dingemann, C., Brendel, J., Wenskus, J., Pirr, S., Schukfeh, N., Ure, B., Reinshagen, K. (2020). Low gestational age is associated with less anastomotic complications after open primary repair of esophageal atresia with tracheoesophageal fistula. *BMC Pediatr* *20*,267. DOI: 10.1186/s12887-020-02170-1
- Dingemann, C., Eaton, S., Aksnes, G., Bagolan, P., Cross, K.M., De Coppi, P., Fruithof, J., Gamba, P., Goldschmidt, I., Gottrand, F., Pirr, S., Rasmussen, L., Sfeir, R., Slater, G., Suominen, J., Svensson, J.F., Thorup, J.M., Tytgat, S.H.A.J., van der Zee, D.C., Wessel, L., Widenmann-Grolig, A., Wijnen, R., Zetterquist, W., Ure, B.M. (2021). ERNICA Consensus Conference on the Management of Patients with Long-Gap Esophageal Atresia: Perioperative, Surgical, and Long-Term Management. *Eur J Pediatr Surg* *31*,214-225. DOI: 10.1055/s-0040-1713932
- Dipl-Biol, A.H., Happle, C., Grychtol, R.M., Skuljec, J., Busse, M., Dalüge, K., Obernolte, H., Sewald, K., Braun, A., Meyer-Bahlburg, A., Hansen, G. (2021). Regulatory B cells control airway hyperreactivity and lung remodeling in a murine asthma model *J Allergy Clin Immunol* *147*,2281-2294.e7. DOI: 10.1016/j.jaci.2020.09.041
- Dona, D., Torres Canizales, J., Benetti, E., Cananzi, M., De Corti, F., Calore, E., Hierro, L., Ramos Boluda, E., Melgosa Hijosa, M., Garcia Guereta, L., Perez Martinez, A., Barrios, M., Costa Reis, P., Teixeira, A., Lopes, M.F., Kalicinski, P., Branchereau, S., Boyer, O., Debray, D., Sciveres, M., Wennberg, L., Fischler, B., Barany, P., Baker, A., Baumann, U., Schwerek, N., Nicasastro, E., Candusso, M., Toporski, J., Sokal, E., Stephenne, X., Lindemans, C., Miglinas, M., Rascon, J., Jara, P., ERN TransplantChild. (2020). Pediatric transplantation in Europe during the COVID-19 pandemic: Early impact on activity and healthcare *Clin Transplant* *34*,e14063. DOI: 10.1111/ctr.14063
- Dopfer, C., Wetzke, M., Zychlinsky Scharff, A., Mueller, F., Dressler, F., Baumann, U., Sasse, M., Hansen, G., Jablonka, A., Happle, C. (2020). COVID-19 related reduction in pediatric emergency healthcare utilization - a concerning trend. *BMC Pediatr* *20*,427. DOI: 10.1186/s12887-020-02303-6
- Fischer, S., Dethlefsen, S., Klockgether, J., Tümmeler, B. (2020). Phenotypic and Genomic Comparison of the Two Most Common ExoU-Positive *Pseudomonas aeruginosa* Clones, PA14 and ST235 *mSystems* *5*,20-20. DOI: 10.1128/mSystems.01007-20
- Fortmann, I., Marissen, J., Siller, B., Spiegler, J., Humberg, A., Hanke, K., Faust, K., Pagel, J., Eyvazzadeh, L., Brenner, K., Roll, C., Pirr, S., Viemann, D., Stavropoulou, D., Henneke, P., Tröger, B., Körner, T., Stein, A., Derouet, C., Zemlin, M., Wieg, C., Rupp, J., Herting, E., Göpel, W., Hartel, C. (2020). *Lactobacillus Acidophilus/Bifidobacterium Infantis* Probiotics Are Beneficial to Extremely Low Gestational Age Infants Fed Human Milk. *Nutrients* *12*,E850 [pii]. DOI: 10.3390/nu12030850
- Fortmann, I., Marissen, J., Siller, B., Spiegler, J., Humberg, A., Hanke, K., Faust, K., Pagel, J., Eyvazzadeh, L., Brenner, K., Roll, C., Pirr, S., Viemann, D., Stavropoulou, D., Henneke, P., Tröger, B., Körner, T., Stein, A., Derouet, C., Zemlin, M., Wieg, C., Rupp, J., Herting, E., Göpel, W., Härtel, C. (2020). *Lactobacillus Acidophilus/Bifidobacterium Infantis* Probiotics Are Beneficial to Extremely Low Gestational Age Infants Fed Human Milk. *Nutrients* *12*,DOI: 10.3390/nu12030850
- Frauchiger, B.S., Carlens, J., Herger, A., Moeller, A., Latzin, P., Ramsey, K.A. (2021). Multiple breath washout quality control in the clinical setting. *Pediatr Pulmonol* *56*,105-112. DOI: 10.1002/ppul.25119
- Gingele, S., Pul, R., Sardari, M., Borbor, M., Henkel, F., Moellenkamp, T.M., Gudi, V., Happle, C., Grychtol, R., Habener, A., Hansen, G., Hermann, D.M., Stangel, M., Kleinschnitz, C., Skuljec, J. (2020). FoxP3 deficiency causes no inflammation or neurodegeneration in the murine brain. *J Neuroimmunol* *342*,577216. DOI: 10.1016/j.jneuroim.2020.577216
- Göttinger, F., Santiago-Garcia, B., Noguera-Julian, A., Lanaspá, M., Lancella, L., Calo Carducci, F.I., Gabrovská, N., Velizarova, S., Prunk, P., Osterman, V., Krivec, U., Lo Vecchio, A., Shingadia, D., Soriano-Arandes, A., Melendo, S., Lanari, M., Pierantoni, L., Wagner, N., L'Huillier, A.G., Heining, U., Ritz, N., Bandi, S., Krajcar, N., Roglic, S., Santos, M., Christiaens, C., Creuven, M., Buonsenso, D., Welch, S.B., Bogyi, M., Brinkmann, F., Tebruegge, M., ptbnet COVID-19 Study Group. (2020). COVID-19 in children and adolescents in Europe: a multinational, multicentre cohort study. *Lancet Child Adolesc Health* *4*,653-661. DOI: 10.1016/S2352-4642(20)30177-2
- Griese, M., Köhler, M., Witt, S., Sebah, D., Kappler, M., Wetzke, M., Schwerek, N., Emiralioglu, N., Kiper, N., Kronfeld, K., Ruckes, C., Rock, H., Anthony, G., Seidl, E. (2020). Prospective evaluation of hydroxychloroquine in pediatric interstitial lung diseases: Study protocol for an investigator-initiated, randomized controlled, parallel-group clinical trial. *Trials* *21*,307. DOI: 10.1186/s13063-020-4188-4
- Haake, K., Wüstefeld, T., Merkert, S., Lüttge, D., Göhring, G., Auber, B., Baumann, U., Lachmann, N. (2020). Human STAT1 gain-of-function iPSC line from a patient suffering from chronic mucocutaneous candidiasis *Stem Cell Res* *43*,101713. DOI: 10.1016/j.scr.2020.101713

Hagner, M., Albrecht, M., Guerra, M., Braubach, P., Halle, O., Zhou-Suckow, Z., Butz, S., Jonigk, D., Hansen, G., Schultz, C., Dittrich, A.M., Mall, M.A. (2021). IL-17A from innate and adaptive lymphocytes contributes to inflammation and damage in cystic fibrosis lung disease. *Eur Respir J* 57,1900716. DOI: 10.1183/13993003.00716-2019

Hahn, K., Pollmann, L., Nowak, J., Nguyen, A.H.H., Haake, K., Neehus, A.L., Waqas, S.F.H., Pessler, F., Baumann, U., Hetzel, M., Casanova, J.L., Schulz, A., Bustamante, J., Ackermann, M., Lachmann, N. (2020). Human Lentiviral Gene Therapy Restores the Cellular Phenotype of Autosomal Recessive Complete IFN-gamma1 Deficiency *Mol Ther Methods Clin Dev* 17,785-795. DOI: 10.1016/j.omtm.2020.04.002

Härtel, C., Faust, K., Fortmann, I., Humberg, A., Pagel, J., Haug, C., Kühl, R., Bohnhorst, B., Pirr, S., Viemann, D., Simon, A., Zemlin, M., Poralla, S., Müller, A., Köstlin-Gille, N., Gille, C., Heckmann, M., Rupp, J., Herting, E., Göpel, W. (2020). Sepsis related mortality of extremely low gestational age newborns after the introduction of colonization screening for multi-drug resistant organisms *Antimicrob Resist Infect Control* 9,144. DOI: 10.1186/s13756-020-00804-8

Härtel, C., Spiegler, J., Fortmann, I., Astiz, M., Oster, H., Siller, B., Viemann, D., Keil, T., Banaschewski, T., Romanos, M., Herting, E., Göpel, W. (2020). Breastfeeding for 3 Months or Longer but Not Probiotics Is Associated with Reduced Risk for Inattention/Hyperactivity and Conduct Problems in Very-Low-Birth-Weight Children at Early Primary School Age *Nutrients* 12,E3278. DOI: 10.3390/nu12113278

Horn, S., Minden, K., Speth, F., Schwarz, T., Dressler, F., Grösch, N., Haas, J.P., Hinze, C., Horneff, G., Hospach, A., Kallinich, T., Klotsche, J., Köstner, K., Meisel, C., Niewerth, M., Oommen, P.T., Schütz, C., Weller-Heinemann, F., Unterwalder, N., Sengler, C. (2020). Myositis-specific autoantibodies and their associated phenotypes in juvenile dermatomyositis: data from a German cohort. *Clin Exp Rheumatol*

Humberg, A., Spiegler, J., Fortmann, M.I., Zemlin, M., Marissen, J., Swoboda, I., Rausch, T.K., Herting, E., Göpel, W., Härtel, C., German Neonatal Network (GNN). (2020). Surgical necrotizing enterocolitis but not spontaneous intestinal perforation is associated with adverse neurological outcome at school age *Sci Rep* 10,2373. DOI: 10.1038/s41598-020-58761-6

Ius, F., Aburahma, K., Boethig, D., Salman, J., Sommer, W., Draeger, H., Poyanmehr, R., Avsar, M., Siemeni, T., Bobylev, D., Optenhoefel, J., Wiesner, O., Greer, M., Schwerk, N., Hoepfer, M.M., Welte, T., Haverich, A., Kuehn, C., Warnecke, G., Gottlieb, J., Tudorache, I. (2020). Long-term outcomes after intraoperative extracorporeal membrane oxygenation during lung transplantation *J Heart Lung Transplant* 39,915-925. DOI: 10.1016/j.healun.2020.04.020

Ius, F., Müller, C., Sommer, W., Verboom, M., Hallensleben, M., Salman, J., Siemeni, T., Kühn, C., Avsar, M., Bobylev, D., Poyanmehr, R., Erdfelder, C., Böthig, D., Carlens, J., Bayir, L., Hansen, G., Blasczyk, R., Falk, C., Tecklenburg, A., Haverich, A., Tudorache, I., Schwerk, N., Warnecke, G. (2020). Six-year experience with treatment of early donor-specific anti-HLA antibodies in pediatric lung transplantation using a human immunoglobulin-based protocol *Pediatr Pulmonol* 55,754-764. DOI: 10.1002/ppul.24639

Ius, F., Salman, J., Knoefel, A.K., Sommer, W., Nakagiri, T., Verboom, M., Siemeni, T., Poyanmehr, R., Bobylev, D., Kuehn, C., Avsar, M., Erdfelder, C., Hallensleben, M., Boethig, D., Hecker, H., Schwerk, N., Mueller, C., Welte, T., Falk, C., Preissler, G., Haverich, A., Tudorache, I., Warnecke, G. (2020). Increased frequency of CD4(+) CD25(high) CD127(low) T cells early after lung transplant is associated with improved graft survival - a retrospective study *Transpl Int* 33,503-516. DOI: 10.1111/tri.13568

Jirno, A.C., Busse, M., Happle, C., Skuljec, J., Dalüge, K., Habener, A., Grychtol, R., DeLuca, D.S., Breiholz, O.D., Prinz, I., Hansen, G. (2020). IL-17 regulates DC migration to the peribronchial LNs and allergen presentation in experimental allergic asthma *Eur J Immunol* 50,1019-1033. DOI: 10.1002/eji.201948409

Jirno, A.C., Rossdam, C., Grychtol, R., Happle, C., Gerardy-Schahn, R., Buettner, F.F.R., Hansen, G. (2020). Differential expression patterns of glycosphingolipids and C-type lectin receptors on immune cells in absence of functional regulatory T cells *Immun Inflamm Dis* 8,512-522. DOI: 10.1002/iid3.334

Joean, O., Thiele, T., Schütz, K., Schwerk, N., Sedlacek, L., Kalsdorf, B., Baumann, U., Stoll, M. (2020). Multidrug-resistant *Mycobacterium tuberculosis*: a report of cosmopolitan microbial migration and an analysis of best management practices *BMC Infect Dis* 20,678. DOI: 10.1186/s12879-020-05381-0

Kaireit, T.F., Kern, A., Voskresbenzev, A., Pöhler, G.H., Klimes, F., Behrendt, L., Gutberlet, M., Moher-Alsady, T., Dittrich, A.M., Wacker, F., Hohlfeld, J., Vogel-Claussen, J. (2021). Flow Volume Loop and Regional Ventilation Assessment Using Phase-Resolved Functional Lung (PREFUL) MRI: Comparison With (129) Xenon Ventilation MRI and Lung Function Testing *J Magn Reson Imaging* 53,1092-1105. DOI: 10.1002/jmri.27452

Kozyra, E.J., Pastor, V.B., Lefkopoulos, S., Sahoo, S.S., Busch, H., Voss, R.K., Erlacher, M., Lebrecht, D., Szvetnik, E.A., Hirabayashi, S., Pasauliene, R., Pedace, L., Tartaglia, M., Klemann, C., Metzger, P., Boerries, M., Catala, A., Hasle, H., de Haas, V., Kallay, K., Masetti, R., De Moerloose, B., Dworzak, M., Schmugge, M., Smith, O., Stary, J., Mejstrikova, E., Ussowicz, M., Morris, E., Singh, P., Collin, M., Derecka, M., Göhring, G., Flotho, C., Strahm, B., Locatelli, F., Niemeyer, C.M., Trompouki, E., Włodarski, M.W., European Working Group of

- MDS in Childhood (EWOG-MDS). (2020).Synonymous GATA2 mutations result in selective loss of mutated RNA and are common in patients with GATA2 deficiency Leukemia *34*,2673-2687. DOI: 10.1038/s41375-020-0899-5
- Krüger, R., Baumann, U., Borte, S., Kölsch, U., Lorenz, M.R., Keller, B., Harder, I., Warnatz, K., Ehl, S., Schwarz, K., Wahn, V., von Bernuth, H. (2020).Impaired polysaccharide responsiveness without agammaglobulinaemia in three patients with hypomorphic mutations in Bruton Tyrosine Kinase-No detection by newborn screening for primary immunodeficiencies Scand J Immunol *91*,e12811. DOI: 10.1111/sji.12811
- Kuntz, M., Kohlfürst, D.S., Feiterna-Sperling, C., Krüger, R., Baumann, U., Buchtala, L., Elling, R., Grote, V., Hübner, J., Hufnagel, M., Kaiser-Labusch, P., Liese, J., Otto, E.M., Rose, M.A., Schneider, C., Schuster, V., Seidl, M., Sommerburg, O., Vogel, M., von Bernuth, H., Weiss, M., Zimmermann, T., Nieters, A., Zenz, W., Henneke, P., NTMkids Consortium. (2020).Risk Factors for Complicated Lymphadenitis Caused by Nontuberculous Mycobacteria in Children Emerg Infect Dis *26*,579-586. DOI: 10.3201/eid2603.191388
- Langer, F., Werlein, C., Soudah, B., Schwerk, N., Jonigk, D. (2021).Nichtneoplastische Lungenerkrankungen des Säuglings und Kindesalters. Pathologe *42*,25-34. DOI: 10.1007/s00292-020-00884-8
- Liebig, K., Boelke, M., Grund, D., Schicht, S., Springer, A., Strube, C., Chitimia-Dobler, L., Dobler, G., Jung, K., Becker, S. (2020).Tick populations from endemic and non-endemic areas in Germany show differential susceptibility to TBEV Sci Rep *10*,15478-020-71920-z. DOI: 10.1038/s41598-020-71920-z
- Liu, B., Lindner, P., Jirno, A.C., Maus, U., Illig, T., DeLuca, D.S. (2020).A comparison of curated gene sets versus transcriptomics-derived gene signatures for detecting pathway activation in immune cells. BMC Bioinformatics *21*,28. DOI: 10.1186/s12859-020-3366-4
- Maccari, M.E., Fuchs, S., Kury, P., Andrieux, G., Vökl, S., Bengsch, B., Lorenz, M.R., Heeg, M., Rohr, J., Jäggle, S., Castro, C.N., Gross, M., Warthorst, U., König, C., Fuchs, I., Speckmann, C., Thalhammer, J., Kapp, F.G., Seidel, M.G., Dückers, G., Schönberger, S., Schütz, C., Führer, M., Kobbe, R., Holzinger, D., Klemann, C., Smisek, P., Owens, S., Horneff, G., Kolb, R., Naumann-Bartsch, N., Miano, M., Staniek, J., Rizzi, M., Kalina, T., Schneider, P., Erxleben, A., Backofen, R., Ekici, A., Niemeyer, C.M., Warnatz, K., Grimbacher, B., Eibel, H., Mackensen, A., Frei, A.P., Schwarz, K., Boerries, M., Ehl, S., Rensing-Ehl, A. (2021).A distinct CD38+CD45RA+ population of CD4+, CD8+, and double-negative T cells is controlled by FAS. J Exp Med *218*,DOI: 10.1084/jem.20192191
- Meerburg, J.J., Hartmann, I.J.C., Goldacker, S., Baumann, U., Uhlmann, A., Andrinopoulou, E.R., Kemner V/D Corput, M.P.C., Warnatz, K., Tiddens, H.A.W.M. (2020).Analysis of Granulomatous Lymphocytic Interstitial Lung Disease Using Two Scoring Systems for Computed Tomography Scans-A Retrospective Cohort Study Front Immunol *11*,589148. DOI: 10.3389/fimmu.2020.589148
- Minso, R., Schulz, A., Dopfer, C., Alfeis, N., Barneveld, A.V., Makartian-Gyulumyan, L., Hansen, G., Junge, S., Müller, C., Ringshausen, F.C.C., Sauer-Heilborn, A., Stanke, F., Stolpe, C., Tamm, S., Welte, T., Dittrich, A.M., Tümmler, B. (2020).Intestinal current measurement and nasal potential difference to make a diagnosis of cases with inconclusive CFTR genetics and sweat test BMJ Open Respir Res *7*,DOI: 10.1136/bmjresp-2020-000736
- Möhn, N., Bruni, E., Schröder, A., Frömmel, S., Gueler, F., Vieten, G., Prinz, I., Kuebler, J.F., Petersen, C., Klemann, C. (2020).Synthetic retinoid AM80 inhibits IL-17 production of gamma delta T cells and ameliorates biliary atresia in mice. Liver Int *40*,3031-3041. DOI: 10.1111/liv.14639
- Müller, F., Hummers, E., Hillermann, N., Dopfer, C., Jablonka, A., Friede, T., Simmenroth, A., Wetzke, M. (2020).Factors Influencing the Frequency of Airway Infections in Underage Refugees: A Retrospective, Cross Sectional Study. Int J Environ Res Public Health *17*,DOI: 10.3390/ijerph17186823
- Pirr, S., Peter, C. (2020).Home oxygen therapy after hospital discharge. Semin Fetal Neonatal Med *25*,101082. DOI: 10.1016/j.siny.2020.101082
- Prenzel, F., Harfst, J., Schwerk, N., Ahrens, F., Rietschel, E., Schmitt-Grohe, S., Rubak, S.M.L., Poplawska, K., Baden, W., Vogel, M., Holizeck, S., Ley-Zaporozhan, J., Brasch, F., Reu, S., Griese, M., LIP/FB-Kids-Lung-Registry Study Group. (2020).Lymphocytic interstitial pneumonia and follicular bronchiolitis in children: A registry-based case series Pediatr Pulmonol *55*,909-917. DOI: 10.1002/ppul.24680
- Prinz, N., Wosniok, J., Staab, D., Ballmann, M., Dopfer, C., Regenfuß, N., Rosenecker, J., Schramm, D., W, R.H., Nährlich, L. (2020).Glukosetoleranz bei Patienten mit zystischer Fibrose - Daten aus dem Deutschen Mukoviszidose Register. Klin Padiatr *232*,210-216. DOI: 10.1055/a-1117-3771
- Pust, M.M., Wiehlmann, L., Davenport, C., Rudolf, I., Dittrich, A.M., Tümmler, B. (2020).The human respiratory tract microbial community structures in healthy and cystic fibrosis infants NPJ Biofilms Microbiomes *6*,61. DOI: 10.1038/s41522-020-00171-7

- Ravens, S., Fichtner, A.S., Willers, M., Torkornoo, D., Pirr, S., Schöning, J., Deseke, M., Sandrock, I., Bubke, A., Wilharm, A., Dodoo, D., Egyir, B., Flanagan, K.L., Steinbrück, L., Dickinson, P., Ghazal, P., Adu, B., Viemann, D., Prinz, I. (2020). Microbial exposure drives polyclonal expansion of innate gamma delta T cells immediately after birth. *Proc Natl Acad Sci U S A* *117*,18649-18660. DOI: 10.1073/pnas.1922588117
- Schamschula, E., Hagmann, W., Assenov, Y., Hedtfeld, S., Farag, A.K., Roesner, L.M., Wiehlmann, L., Stanke, F., Fischer, S., Risch, A., Tümmler, B. (2021). Immunotyping of clinically divergent p.Phe508del homozygous monozygous cystic fibrosis twins *J Cyst Fibros* *20*,149-153. DOI: 10.1016/j.jcf.2020.06.009
- Schukfeh, N., Elyas, A., Viemann, D., Ure, B.M., Froemmel, S., Park, J.K., Kuebler, J.F., Vieten, G. (2021). Phenotypic Switch of Human Peritoneal Macrophages during Childhood *Eur J Pediatr Surg* *37*,86-94. DOI: 10.1055/s-0040-1717088
- Seidl, E., Carlens, J., Schwerk, N., Wetzke, M., Marczak, H., Lange, J., Krenke, K., Mayell, S.J., Escribano, A., Seidenberg, J., Ahrens, F., Hebestreit, H., Nährlich, L., Sismanlar, T., Aslan, A.T., Snijders, D., Ullmann, N., Kappler, M., Griese, M. (2020). Persistent tachypnea of infancy: Follow up at school age *Pediatr Pulmonol* *55*,3119-3125. DOI: 10.1002/ppul.25004
- Shai, S., Perez-Becker, R., Andres, O., Bakhtiar, S., Bauman, U., von Bernuth, H., Classen, C.F., Duckers, G., El-Helou, S.M., Gangfuss, A., Ghosh, S., Grimbacher, B., Hauck, F., Hoenig, M., Husain, R.A., Kindle, G., Kipfmueller, F., Klemann, C., Kruger, R., Lainka, E., Lehmborg, K., Lohrmann, F., Morbach, H., Naumann-Bartsch, N., Oommen, P.T., Schulz, A., Seidemann, K., Speckmann, C., Sykora, K.W., von Kries, R., Niehues, T. (2020). Incidence of SCID in Germany from 2014 to 2015 an ESPED* Survey on Behalf of the API*** Erhebungseinheit für Seltene Pädiatrische Erkrankungen in Deutschland (German Paediatric Surveillance Unit) ** Arbeitsgemeinschaft Pädiatrische Immunologie. *J Clin Immunol* *40*,708-717. DOI: 10.1007/s10875-020-00782-x
- Stahl, M., Joachim, C., Kirsch, I., Uselmann, T., Yu, Y., Alfeis, N., Berger, C., Minso, R., Rudolf, I., Stolpe, C., Bovermann, X., Liboschik, L., Steinmetz, A., Tennhardt, D., Dörfler, F., Röhmel, J., Unorji-Frank, K., Ruckes-Nilges, C., von Stoutz, B., Naehrlich, L., Kopp, M.V., Dittrich, A.M., Sommerburg, O., Mall, M.A. (2020). Multicentre feasibility of multiple-breath washout in preschool children with cystic fibrosis and other lung diseases *ERJ Open Res* *6*,DOI: 10.1183/23120541.00408-2020
- Tewes, S., Hensen, B., Jablonka, A., Gawe, D., Kastikainen, M., Happle, C., Carlens, J., Berthold, L.D., Wacker, F. (2020). Tuberculosis screening during the 2015 European refugee crisis *BMC Public Health* *20*,200. DOI: 10.1186/s12889-020-8303-y
- Theilmann, W., Brandt, C., Bohnhorst, B., Winstroth, A.M., Das, A.M., Gramer, M., Kipper, A., Kalesse, M., Löscher, W. (2021). Hydrolytic biotransformation of the bumetanide ester prodrug DIMAEB to bumetanide by esterases in neonatal human and rat serum and neonatal rat brain-A new treatment strategy for neonatal seizures? *Epilepsia* *62*,269-278. DOI: 10.1111/epi.16746
- Trendelenburg, V., Blumchen, K., Bellach, J., Ahrens, F., Gruebl, A., Hamelmann, E., Hansen, G., Heinzmann, A., Nemat, K., Holzhauser, T., Röder, M., Niggemann, B., Beyer, K. (2020). Peanut oral immunotherapy protects patients from accidental allergic reactions to peanut. *J Allergy Clin Immunol Pract* *8*,2437. DOI: 10.1016/j.jaip.2020.03.043
- van de Ven, A.A.J.M., Alfaro, T.M., Robinson, A., Baumann, U., Bergeron, A., Burns, S.O., Condliffe, A.M., Fevang, B., Gennery, A.R., Haerynck, F., Jacob, J., Jolles, S., Malphettes, M., Meignin, V., Milota, T., van Montfrans, J., Prasse, A., Quinti, I., Renzoni, E., Stolz, D., Warnatz, K., Hurst, J.R. (2020). Managing Granulomatous-Lymphocytic Interstitial Lung Disease in Common Variable Immunodeficiency Disorders: e-GLILDnet International Clinicians Survey *Front Immunol* *11*,606333. DOI: 10.3389/fimmu.2020.606333
- Waitz, M., Engel, C., Schloesser, R., Rochwalsky, U., Meyer, S., Larsen, A., Hoffmann, P., Zemlin, M., Bohnhorst, B., Peter, C., Hoppenz, M., Pabst, T., Zimmer, K.P., Franz, A.R., Haertel, C., Frieauff, E., Sandkötter, J., Masjosthusmann, K., Deindl, P., Singer, D., Heidkamp, M., Schmidt, A., Ehrhardt, H. (2020). Application of two different nasal CPAP levels for the treatment of respiratory distress syndrome in pre-term infants-"The OPTIMMAL-Trial"-Optimizing PEEP To The IMMature Lungs: study protocol of a randomized controlled trial. *Trials* *21*,822. DOI: 10.1186/s13063-020-04660-0
- Weckmann, M., Thiele, D., Liboschik, L., Bahmer, T., Pech, M., Dittrich, A.M., Fuchs, O., Happle, C., Schaub, B., Ricklefs, I., Rabe, K.F., von Mutius, E., Hansen, G., König, I.R., Kopp, M.V., ALLIANCE Study Group. (2021). Cytokine levels in children and adults with wheezing and asthma show specific patterns of variability over time. *Clin Exp Immunol* *204*,152-164. DOI: 10.1111/cei.13550
- Westphal, C., Görlich, D., Kampmeier, S., Herzog, S., Braun, N., Hitschke, C., Mellmann, A., Peters, G., Kahl, B.C., Staphylococcal CF Study Group. (2020). Antibiotic Treatment and Age Are Associated With Staphylococcus aureus Carriage Profiles During Persistence in the Airways of Cystic Fibrosis Patients. *Front Microbiol* *11*,230. DOI: 10.3389/fmicb.2020.00230
- Willers, M., Ulas, T., Völlger, L., Vogl, T., Heinemann, A.S., Pirr, S., Pagel, J., Fehlhaber, B., Halle, O., Schöning, J., Schreek, S., Löber, U., Essex, M., Hombach, P., Graspentner, S., Basic, M., Bleich, A., Cloppenburg-Schmidt, K., Künzel, S., Jonigk, D., Rupp, J., Hansen, G., Förster, R., Baines, J.F., Härtel, C., Schultze, J.L., Forslund, S.K., Roth, J., Viemann, D. (2020). S100A8 and S100A9 are important for

Postnatal Development of Gut Microbiota and Immune System in Mice and Infants Gastroenterology 159,2130-2145.e5. DOI: 10.1053/j.gastro.2020.08.019

Zychlinsky Scharff, A., Schwerk, N., Baumann, U., Burmester, H., Carlens, J., Dopfer, C., Grewendorf, S., Mueller, C., Schütz, K., Voelker, M., Hansen, G., Happle, C., Wetzke, M. (2020). An apple a day won't keep the doctor away: presentation, treatment, and outcome in pediatric apple aspirations. *Pediatr Pulmonol* 55,1697-1704. DOI: 10.1002/ppul.24768

Leitlinien von Fachgesellschaften

Hanitsch, L., Baumann, U., Boztug, K., Burkhard-Meier, U., Fasshauer, M., Habermehl, P., Hauck, F., Klock, G., Liese, J., Meyer, O., Müller, R., Pachlopnik-Schmid, J., Pfeiffer-Kascha, D., Warnatz, K., Wehr, C., Wittke, K., Niehues, T., von Bernuth, H. (2020). Treatment and management of primary antibody deficiency: German interdisciplinary evidence-based consensus guideline *Eur J Immunol* 50,1432-1446. DOI: 10.1002/eji.202048713

Rose, M.A., Barker, M., Liese, J., Adams, O., Ankermann, T., Baumann, U., Brinkmann, F., Bruns, R., Dahlheim, M., Ewig, S., Forster, J., Hofmann, G., Kemen, C., Lück, C., Nadal, D., Nüsslein, T., Regamey, N., Riedler, J., Schmidt, S., Schwerk, N., Seidenberg, J., Tenenbaum, T., Trapp, S., van der Linden, M. (2020). S2k-Leitlinie Management der ambulant erworbenen Pneumonie bei Kindern und Jugendlichen (pädiatrische ambulant erworbene Pneumonie, pCAP). *Pneumologie* 74,515-544. DOI: 10.1055/a-1139-5132

Übersichtsarbeiten

Laws, H.J., Baumann, U., Bogdan, C., Burchard, G., Christopheit, M., Hecht, J., Heininger, U., Hilgendorf, I., Kern, W., Kling, K., Kobbe, G., Kulper, W., Lehrnbecher, T., Meisel, R., Simon, A., Ullmann, A., de Wit, M., Zepp, F. (2020). Impfen bei Immundefizienz: Anwendungshinweise zu den von der Ständigen Impfkommission empfohlenen Impfungen. (III) Impfen bei hämatologischen und onkologischen Erkrankungen (antineoplastische Therapie, Stammzelltransplantation), Organtransplantation und Asplenie *Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz* 63,588-644. DOI: 10.1007/s00103-020-03123-w

Lee, C., Klockgether, J., Fischer, S., Trcek, J., Tümmler, B., Römling, U. (2020). Why? - Successful *Pseudomonas aeruginosa* clones with a focus on clone C *FEMS Microbiol Rev* 44,740-762. DOI: 10.1093/femsre/fuaa029

Pirr, S., Viemann, D. (2020). Host Factors of Favorable Intestinal Microbial Colonization *Front Immunol* 11,584288. DOI: 10.3389/fimmu.2020.584288

Ring, A.M., Carlens, J., Bush, A., Castillo-Corullon, S., Fasola, S., Gaboli, M.P., Griese, M., Koucky, V., La Grutta, S., Lombardi, E., Proesmans, M., Schwerk, N., Snijders, D., Nielsen, K.G., Buchvald, F. (2020). Pulmonary function testing in children's interstitial lung disease *Eur Respir Rev* 29, DOI: 10.1183/16000617.0019-2020

Ringshausen, F.C., Hellmuth, T., Dittrich, A.M. (2020). Was ist gesichert in der Therapie der Mukoviszidose? *Internist (Berl)* 61,1212-1229. DOI: 10.1007/s00108-020-00896-9

Tümmler, B. (2020). Molecular epidemiology in current times *Environ Microbiol* 22,4909-4918. DOI: 10.1111/1462-2920.15238

Viemann, D. (2020). S100-Alarmins Are Essential Pilots of Postnatal Innate Immune Adaptation. *Front Immunol* 11,688. DOI: 10.3389/fimmu.2020.00688

Letter

Abdo, M., Watz, H., Veith, V., Kirsten, A.M., Biller, H., Pedersen, F., von Mutius, E., Kopp, M.V., Hansen, G., Waschki, B., Rabe, K.F., Trinkmann, F., Bahmer, T. (2020). Small airway dysfunction as predictor and marker for clinical response to biological therapy in severe eosinophilic asthma: a longitudinal observational study. *Respir Res* 21,278. DOI: 10.1186/s12931-020-01543-5

Bahmer, T., Krauss-Etschmann, S., Buschmann, D., Behrends, J., Watz, H., Kirsten, A.M., Pedersen, F., Waschki, B., Fuchs, O., Pfaffl, M.W., von Mutius, E., Rabe, K.F., Hansen, G., Kopp, M.V., König, I.R., Bartel, S. (2021). RNA-seq-based profiling of extracellular vesicles in plasma reveals a potential role of miR-122-5p in asthma. *Allergy* 76,366-371. DOI: 10.1111/all.14486

Holz, O., Waschki, B., Watz, H., Kirsten, A., Abdo, M., Pedersen, F., Weckmann, M., Fuchs, O., Dittrich, A.M., Hansen, G., Kopp, M.V., V Mutius, E., Rabe, K.F., Hohlfeld, J.M., Bahmer, T., ALLIANCE Study Group. (2021). Breath volatile organic compounds and inflammatory markers in adult asthma patients - negative results from the ALLIANCE cohort. *Eur Respir J* 57,2002127. DOI: 10.1183/13993003.02127-2020

Case reports

Dressler, F. (2020). Ein 15-jähriger Fußballer mit Urtikaria, Fieber, Arthritis und Myositis. *Arthritis + Rheuma* 40,199-200. DOI: 10.1055/a-1120-2235

Niehues, T., Özgür, T.T., Bickes, M., Waldmann, R., Schöning, J., Bräsen, J., Hagel, C., Ballmaier, M., Klusmann, J.H., Niedermayer, A., Pannicke, U., Enders, A., Dückers, G., Siepermann, K., Hempel, J., Schwarz, K., Viemann, D. (2020). Mutations of the gene FNIP1 associated with a syndromic autosomal recessive immunodeficiency with cardiomyopathy and pre-excitation syndrome. *Eur J Immunol* *50*,1078-1080. DOI: 10.1002/eji.201948504

Abstracts

Ius, F., Draeger, H., Sommer, W., Salman, J., Schwerk, N., Gottlieb, J., Welte, T., Haverich, A., Tudorache, I., Warnecke, G. (2020). Impact of Unilateral Diaphragmatic Dysfunction on Postoperative Outcome after Bilateral Lung Transplantation. *Thorac Cardiovasc Surg* *68*,DGTHG-V106. DOI: 10.1055/s-0040-1705373

Ius, F., Draeger, H., Sommer, W., Siemeni, T., Kühn, C., Avsar, M., Bobylev, D., Schwerk, N., Greer, M., Haverich, A., Tudorache, I., Warnecke, G. (2020). Impact of Diaphragmatic Dysfunction on Postoperative Course after Bilateral Lung Transplantation. *J Heart Lung Transplant* *39*,S124. DOI: 10.1016/j.healun.2020.01.1014

Ius, F., Salman, J., Sommer, W., Poyanmehr, R., Avsar, M., Siemeni, T., Bobylev, D., Schwerk, N., Müller, C., Haverich, A., Kühn, C., Warnecke, G., Tudorache, I. (2020). Extracorporeal Membrane Oxygenation during Lung Transplantation and Long-Term Graft Function: Results from a 9-Year Single-Center Experience. *J Heart Lung Transplant* *39*,S104. DOI: 10.1016/j.healun.2020.01.961

Ius, F., Sommer, W., Salman, J., Siemeni, T., Kühn, C., Avsar, M., Schwerk, N., Haverich, A., Tudorache, I., Warnecke, G. (2020). Six-Year Clinical Results of an IgA- and IgM-Enriched Human Immunoglobulin-Based Therapy for Early Anti-HLA Donor Specific Antibodies after Lung Transplantation. *Thorac Cardiovasc Surg* *68*,DGTHG-V110. DOI: 10.1055/s-0040-1705377

Ius, F., Sommer, W., Salman, J., Siemeni, T., Kühn, C., Avsar, M., Schwerk, N., Müller, C., Falk, C., Haverich, A., Tudorache, I., Warnecke, G. (2020). Six-Year Results of an IgA- and IgM-Enriched Immunoglobulin-Based Therapy for Early Detectable Anti-HLA Donor Specific Antibodies in Lung Transplantation. *J Heart Lung Transplant* *39*,S80. DOI: 10.1016/j.healun.2020.01.1302

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Originalpublikationen

Ackermann, M., Haake, K., Kempf, H., Kaschutnig, P., Weiss, A.C., Nguyen, A.H.H., Abeln, M., Merkert, S., Kühnel, M.P., Hartmann, D., Jonigk, D., Thum, T., Kispert, A., Milsom, M.D., Lachmann, N. (2021). A 3D iPSC-differentiation model identifies interleukin-3 as a regulator of early human hematopoietic specification *Haematologica* *106*,1354-1367. DOI: 10.3324/haematol.2019.228064

Ackermann, M., Verleden, S.E., Kuehnel, M., Haverich, A., Welte, T., Laenger, F., Vanstapel, A., Werlein, C., Stark, H., Tzankov, A., Li, W.W., Li, V.W., Mentzer, S.J., Jonigk, D. (2020). Pulmonary Vascular Endothelialitis, Thrombosis, and Angiogenesis in Covid-19. *N Engl J Med* *383*,120-128. DOI: 10.1056/NEJMoa2015432

Andreas, M., Berretta, P., Solinas, M., Santarpino, G., Kappert, U., Fiore, A., Glauber, M., Misfeld, M., Savini, C., Mikus, E., Villa, E., Phan, K., Fischlein, T., Meuris, B., Martinelli, G., Teoh, K., Mignosa, C., Shrestha, M., Carrel, T.P., Yan, T., Laufer, G., Di Eusanio, M. (2020). Minimally invasive access type related to outcomes of sutureless and rapid deployment valves *Eur J Cardiothorac Surg* *58*,1063-1071. DOI: 10.1093/ejcts/ezaa154

Arens, J., Grottko, O., Haverich, A., Maier, L.S., Schmitz-Rode, T., Steinseifer, U., Wendel, H.P., Rossaint, R. (2020). Toward a Long-Term Artificial Lung *ASAIO J* *66*,847-854. DOI: 10.1097/MAT.0000000000001139

Bahlmann, J., Madrahimov, N., Daniel, F., Theidel, D., DeTemple, D.E., Buettner, M., Bleich, A., Haverich, A., Heisterkamp, A., Kalies, S. (2020). Establishment of a guided, in vivo, multi-channel, abdominal, tissue imaging approach. *Sci Rep* *10*,9224. DOI: 10.1038/s41598-020-65950-w

Becher, P.M., Schrage, B., Weimann, J., Smits, J., Magnussen, C., Reichenspurner, H., Gossling, A., Rodrigus, I., Dumfarth, J., de Pauw, M., Francois, K., van Caenegem, O., Ancion, A., Van Cleemput, J., Milicic, D., Moza, A., Schenker, P., Röhrich, L., Schönath, F., Thul, J., Steinmetz, M., Schmack, B., Ruhparwar, A., Warnecke, G., Rojas, S.V., Sandhaus, T., Haneya, A., Eifert, S., Welp, H., Ablonczy, L., Wagner, F., Westermann, D., Bernhardt, A.M., Knappe, D., Blankenberg, S., Kirchhof, P., Zengin, E., Sinning, C. (2020). Clinical characteristics

and outcomes of patients with adult congenital heart disease listed for heart and heartlung transplantation in the Eurotransplant region *J Heart Lung Transplant* *39*,1238-1249. DOI: 10.1016/j.healun.2020.07.012

Beck, C.E., Chandrakumar, T., Sümpelmann, R., Nickel, K., Keil, O., Heiderich, S., Boethig, D., Witt, L., Dennhardt, N. (2020).Ultrasound assessment of gastric emptying time after intake of clear fluids in children scheduled for general anesthesia-A prospective observational study *Paediatr Anaesth* *30*,1384-1389. DOI: 10.1111/pan.14029

Beck, C.E., Rudolph, D., Mahn, C., Etspüler, A., Korf, M., Lütke, M., Schindler, E., Päkert, S., Trapp, A., Megens, J.H.A.M., Oppitz, F., Badelt, G., Röher, K., Genähr, A., Fink, G., Muller-Lobeck, L., Becke-Jakob, K., Wermelt, J.Z., Boethig, D., Eich, C., Sümpelmann, R. (2020).Impact of clear fluid fasting on pulmonary aspiration in children undergoing general anesthesia: Results of the German prospective multicenter observational (NiKS) study *Paediatr Anaesth* *30*,892-899. DOI: 10.1111/pan.13948

Beck, C.E., Sümpelmann, R., Nickel, K., Keil, O., Kuebler, J.F., Boethig, D., Witt, L., Dennhardt, N. (2020).Systemic and regional cerebral perfusion in small infants undergoing minor lower abdominal surgery under awake caudal anaesthesia: An observational study *Eur J Anaesthesiol* *37*,696-700. DOI: 10.1097/EJA.0000000000001150

Beckmann, E., Martens, A., Korte, W., Kaufeld, T., Krueger, H., Haverich, A., Shrestha, M. (2020).Open total arch replacement with trifurcated graft and frozen elephant trunk *Ann Cardiothorac Surg* *9*,170-177. DOI: 10.21037/acs.2020.03.09

Beckmann, E., Martens, A., Krueger, H., Kaufeld, T., Korte, W., Stettinger, A., Haverich, A., Shrestha, M.L. (2020).Aortic valve-sparing root replacement (David): learning curve and impact on outcome *Interact Cardiovasc Thorac Surg* *30*,754-761. DOI: 10.1093/icvts/ivz324

Beckmann, E., Martens, A., Krüger, H., Korte, W., Kaufeld, T., Stettinger, A., Haverich, A., Shrestha, M.L. (2020).Aortic valve-sparing root replacement in patients with bicuspid aortic valve: long-term outcome with the David I procedure over 20 years *Eur J Cardiothorac Surg* *58*,86-93. DOI: 10.1093/ejcts/ezaa083

Behrens, G.M.N., Cossmann, A., Stankov, M.V., Schulte, B., Streeck, H., Förster, R., Bosnjak, B., Willenzon, S., Boeck, A.L., Thu Tran, A., Thiele, T., Graalman, T., Kayser, M.Z., Zychlinsky Scharff, A., Dopfer, C., Horke, A., Pink, I., Witte, T., Wetzke, M., Ernst, D., Jablonka, A., Happle, C. (2020).Strategic Anti-SARS-CoV-2 Serology Testing in a Low Prevalence Setting: The COVID-19 Contact (CoCo) Study in Healthcare Professionals *Infect Dis Ther* *9*,837-849. DOI: 10.1007/s40121-020-00334-1

Blockus, S., Sake, S.M., Wetzke, M., Grethe, C., Graalman, T., Pils, M., Le Goffic, R., Galloux, M., Prochnow, H., Rox, K., Hüttel, S., Rupcic, Z., Wiegmann, B., Dijkman, R., Rameix-Welti, M.A., Eleouet, J.F., Duprex, W.P., Thiel, V., Hansen, G., Brönstrup, M., Haid, S., Pietschmann, T. (2020).Labyrinthopeptins as virolytic inhibitors of respiratory syncytial virus cell entry *Antiviral Res* *177*,104774. DOI: 10.1016/j.antiviral.2020.104774

Buddhe, S., Jani, V., Sarikouch, S., Gaur, L., Schuster, A., Beerbaum, P., Lewin, M., Kutty, S. (2021).Differences in right ventricular-pulmonary vascular coupling and clinical indices between repaired standard tetralogy of Fallot and repaired tetralogy of Fallot with pulmonary atresia *Diagn Interv Imaging* *102*,85-91. DOI: 10.1016/j.diii.2020.05.008

Calabrese, F., Schiavon, M., Perissinotto, E., Lunardi, F., Marulli, G., Di Gregorio, G., Pezzuto, F., Edith Vuljan, S., Forin, E., Wiegmann, B., Jonigk, D., Warnecke, G., Rea, F. (2020).Organ Care System Lung resulted in lower apoptosis and iNOS expression in donor lungs. *Am J Transplant* *20*,3639-3648. DOI: 10.1111/ajt.16187

Chou, Y.H., Pan, S.Y., Shao, Y.H., Shih, H.M., Wei, S.Y., Lai, C.F., Chiang, W.C., Schimpf, C., Yang, K.C., Lai, L.C., Chen, Y.M., Chu, T.S., Lin, S.L. (2020).Methylation in pericytes after acute injury promotes chronic kidney disease *J Clin Invest* *130*,4845-4857. DOI: 10.1172/JCI135773

Czerner, C.P., Schoenfeld, C., Cebotari, S., Renne, J., Kaireit, T.F., Winther, H.B., Pöhler, G.H., Olsson, K.M., Hoepfer, M.M., Wacker, F., Vogel-Claussen, J. (2020).Perioperative CTEPH patient monitoring with 2D phase-contrast MRI reflects clinical, cardiac and pulmonary perfusion changes after pulmonary endarterectomy *PLoS One* *15*,e0238171. DOI: 10.1371/journal.pone.0238171

Dahlmann, J., Sahabian, A., Drick, N., Haase, A., Göhring, G., Lachmann, N., Ringshausen, F.C., Welte, T., Martin, U., Olmer, R. (2020).Generation of two hiPSC lines (MHHi016-A, MHHi016-B) from a primary ciliary dyskinesia patient carrying a homozygous 5 bp duplication (c.248_252dup (p.Gly85Cysfs*11)) in exon 1 of the CCNO gene. *Stem Cell Res* *46*,101850. DOI: 10.1016/j.scr.2020.101850

Dennhardt, N., Sümpelmann, R., Horke, A., Keil, O., Nickel, K., Heiderich, S., Boethig, D., Beck, C.E. (2020).Prevention of postoperative bleeding after complex pediatric cardiac surgery by early administration of fibrinogen, prothrombin complex and platelets: a prospective observational study. *BMC Anesthesiol* *20*,302. DOI: 10.1186/s12871-020-01217-1

Derlin, K., Hellms, S., Gutberlet, M., Peperhove, M., Jang, M.S., Greite, R., Hartung, D., Derlin, T., Fegbeutel, C., Tudorache, I., Jüttner, B., Wiese, B., Lichtinghagen, R., Haller, H., Haverich, A., Wacker, F., Warnecke, G., Gueler, F. (2020).Application of MR diffusion imaging for

non-invasive assessment of acute kidney injury after lung transplantation *Medicine (Baltimore)* *99*,e22445. DOI: 10.1097/MD.00000000000022445

Derlin, T., Jaeger, B., Jonigk, D., Apel, R., Freise, J., Shin, H.O., Weiberg, D., Warnecke, G., Ross, T.L., Wester, H.J., Seeliger, B., Welte, T., Bengel, F.M., Prasse, A. (2021). Clinical Molecular Imaging of Pulmonary CXCR4 Expression to Predict Outcome of Pirfenidone Treatment in Idiopathic Pulmonary Fibrosis *Chest* *159*,1094-1106. DOI: 10.1016/j.chest.2020.08.2043

Diller, G.P., Orwat, S., Vahle, J., Bauer, U.M.M., Urban, A., Sarikouch, S., Berger, F., Beerbaum, P., Baumgartner, H., German Competence Network for Congenital Heart Defects Investigators. (2020). Prediction of prognosis in patients with tetralogy of Fallot based on deep learning imaging analysis *Heart* *106*,1007-1014. DOI: 10.1136/heartjnl-2019-315962

Diller, G.P., Vahle, J., Radke, R., Vidal, M.L.B., Fischer, A.J., Bauer, U.M.M., Sarikouch, S., Berger, F., Beerbaum, P., Baumgartner, H., Orwat, S., German Competence Network for Congenital Heart Defects Investigators. (2020). Utility of deep learning networks for the generation of artificial cardiac magnetic resonance images in congenital heart disease *BMC Med Imaging* *20*,113. DOI: 10.1186/s12880-020-00511-1

Donnert, M., Elsheikh, S., Arce-Rodriguez, A., Pawar, V., Braubach, P., Jonigk, D., Haverich, A., Weiss, S., Müsken, M., Häussler, S. (2020). Targeting bioenergetics is key to counteracting the drug-tolerant state of biofilm-grown bacteria *PLoS Pathog* *16*,e1009126. DOI: 10.1371/journal.ppat.1009126

Drick, N., Dahlmann, J., Sahabian, A., Haase, A., Göhring, G., Lachmann, N., Ringshausen, F.C., Welte, T., Martin, U., Olmer, R. (2020). Generation of two human induced pluripotent stem cell lines (MHHi017-A, MHHi017-B) from a patient with primary ciliary dyskinesia carrying a homozygous mutation (c.7915C > T [p.Arg2639*]) in the DNAH5 gene. *Stem Cell Res* *46*,101848. DOI: 10.1016/j.scr.2020.101848

Eyre, K., Samper, E., Haverich, A., Hilfiker, A., Andree, B. (2021). Re-endothelialization of non-detergent decellularized porcine vessels *Artif Organs* *45*,E53-E64. DOI: 10.1111/aor.13836

Ferraz Cavalcanti, P.E., Sa, M.P.B.O., Lins, R.F.A., Cavalcanti, C.V., Lima, R.C., Cvitkovic, T., Bobylev, D., Boethig, D., Beerbaum, P., Sarikouch, S., Haverich, A., Horke, A. (2020). Three-step preoperative sequential planning for pulmonary valve replacement in repaired tetralogy of Fallot using computed tomography *Eur J Cardiothorac Surg* *59*,333-340. DOI: 10.1093/ejcts/ezaa346

Findeisen, K., Morticelli, L., Goecke, T., Kolbeck, L., Ramm, R., Höffler, H.K., Brandes, G., Korossis, S., Haverich, A., Hilfiker, A. (2020). Toward acellular xenogeneic heart valve prostheses: Histological and biomechanical characterization of decellularized and enzymatically deglycosylated porcine pulmonary heart valve matrices *Xenotransplantation* *27*,e12617. DOI: 10.1111/xen.12617

Fleissner, F., Frank, P., Haverich, A., Ismail, I. (2020). Echocardiographic guided, transatrial closure of a patent foramen ovale *J Cardiothorac Surg* *15*,255. DOI: 10.1186/s13019-020-01289-7

Fleissner, F., Haverich, A., Cebotari, S. (2020). All for one and one for all-new multifunctional sternal retractor *J Thorac Dis* *12*,4581-4583. DOI: 10.21037/jtd-20-1051

Fleissner, F., Timm, M.E., Lang, C.P., Lenarz, T., Kühn, C., Jaeger, D.B. (2020). Tracheal Transection-A Novel Airway Management *Thorac Cardiovasc Surg Rep* *9*,e24-e28. DOI: 10.1055/s-0040-1710586

Fursov, M.V., Abdrakhmanova, R.O., Antonova, N.P., Vasina, D.V., Kolchanova, A.D., Bashkina, O.A., Rubalsky, O.V., Samotrujeva, M.A., Potapov, V.D., Makarov, V.V., Yudin, S.M., Gintsburg, A.L., Tkachuk, A.P., Gushchin, V.A., Rubalskii, E.O. (2020). Antibiofilm Activity of a Broad-Range Recombinant Endolysin LysECD7: In Vitro and In Vivo Study *Viruses* *12*. DOI: 10.3390/v12050545

Gillmann, H.J., Dieding, J., Schrimpf, C., Janssen, H., Sahlmann, B., Rustum, S., Aper, T., Lichtinghagen, R., Teebken, O.E., Theilmeier, G., Larmann, J. (2020). Prospective evaluation of preoperative lung ultrasound for prediction of perioperative outcome and myocardial injury in adult patients undergoing vascular surgery (LUPPO study) *Minerva Anestesiol* *86*,1151-1160. DOI: 10.23736/S0375-9393.20.14393-1

Gustafsson, F., Mirza, K.K., Pya, Y., Shaw, S., Diegeler, A., Netuka, I., Lavee, J., Garbade, J., Morshuis, M., Heatley, J., Saeed, D., Potapov, E., Schmitto, J.D., Zimpfer, D., ELEVATE investigators. (2020). Predictors of Physical Capacity 6 Months After Implantation of a Full Magnetically Levitated Left Ventricular Assist Device: An Analysis From the ELEVATE Registry *J Card Fail* *26*,580-587. DOI: 10.1016/j.cardfail.2020.04.004

Haake, K., Wüstefeld, T., Merkert, S., Lüttge, D., Göhring, G., Auber, B., Baumann, U., Lachmann, N. (2020). Human STAT1 gain-of-function iPSC line from a patient suffering from chronic mucocutaneous candidiasis *Stem Cell Res* *43*,101713. DOI: 10.1016/j.scr.2020.101713

- Hacker, K.S., Jansson, K., Pichler, J., Salman, J., Avsar, M., Siemeni, T., Knöfel, A.K., Hoffler, K., Gottlieb, J., Frühauf, J., Werner, M., Poyanmehr, R., Jonigk, D., Balzer, M.S., Hewicker-Trautwein, M., Haverich, A., Sommer, W., Warnecke, G. (2021). Delayed non-myeloablative irradiation to induce long-term allograft acceptance in a large animal lung transplantation model. *Transpl Immunol* 65,101350. DOI: 10.1016/j.trim.2020.101350
- Hanke, J.S., Dogan, G., Haverich, A., Schmitto, J.D. (2020). First-in-man explantation of a HeartMate 3 left ventricular assist device via customized plug Eur J Cardiothorac Surg 57,604-606. DOI: 10.1093/ejcts/ezz248
- Hanke, J.S., Schmack, B., Merzah, A.S., Bounader, K., Chatterjee, A., Mariani, S., Li, T., Klautzsch, E., Mueller, F., Homann, K., Schoede, A., Haverich, A., Ruhparwar, A., Schmitto, J.D., Dogan, G. (2021). Flying after left ventricular assist device implantation *Artif Organs* 45,230-235. DOI: 10.1111/aor.13815
- Haufe, S., Kahl, K.G., Kerling, A., Protte, G., Bayerle, P., Stenner, H.T., Rolff, S., Sundermeier, T., Eigendorf, J., Kück, M., Hanke, A.A., Keller-Varady, K., Ensslen, R., Nachbar, L., Lauenstein, D., Böthig, D., Terkamp, C., Stiesch, M., Hilfiker-Kleiner, D., Haverich, A., Tegtbur, U. (2020). Employers With Metabolic Syndrome and Increased Depression/Anxiety Severity Profit Most From Structured Exercise Intervention for Work Ability and Quality of Life *Front Psychiatry* 11,562. DOI: 10.3389/fpsy.2020.00562
- Horke, A., Bobylev, D., Avsar, M., Meyns, B., Rega, F., Hazekamp, M., Huebler, M., Schmiady, M., Tzanavaros, I., Cesnjevar, R., Ciubotaru, A., Laufer, G., Zimpfer, D., Jashari, R., Boethig, D., Cebotari, S., Beerbaum, P., Tudorache, I., Haverich, A., Sarikouch, S. (2020). Paediatric aortic valve replacement using decellularized allografts *Eur J Cardiothorac Surg* 58,817-824. DOI: 10.1093/ejcts/ezaa119
- Horke, A., Tudorache, I., Laufer, G., Andreas, M., Pomar, J.L., Pereda, D., Quintana, E., Sitges, M., Meyns, B., Rega, F., Hazekamp, M., Hübler, M., Schmiady, M., Pepper, J., Rosendahl, U., Lichtenberg, A., Akhyari, P., Jashari, R., Boethig, D., Bobylev, D., Avsar, M., Cebotari, S., Haverich, A., Sarikouch, S. (2020). Early results from a prospective, single-arm European trial on decellularized allografts for aortic valve replacement: the ARISE study and ARISE Registry data *Eur J Cardiothorac Surg* 58,1045-1053. DOI: 10.1093/ejcts/ezaa100
- Hunkler, H.J., Hoepfner, J., Huang, C.K., Chatterjee, S., Jara-Avaca, M., Gruh, I., Bolesani, E., Zweigerdt, R., Thum, T., Bär, C. (2020). The Long Non-coding RNA Cyrano Is Dispensable for Pluripotency of Murine and Human Pluripotent Stem Cells *Stem Cell Reports* 15,13-21. DOI: 10.1016/j.stemcr.2020.05.011
- Ichanti, H., Sladic, S., Kalies, S., Haverich, A., Andree, B., Hilfiker, A. (2020). Characterization of Tissue Engineered Endothelial Cell Networks in Composite Collagen-Agarose Hydrogels *Gels* 6,27. DOI: 10.3390/gels6030027
- Ius, F., Aburahma, K., Boethig, D., Salman, J., Sommer, W., Draeger, H., Poyanmehr, R., Avsar, M., Siemeni, T., Bobylev, D., Optenhoefel, J., Wiesner, O., Greer, M., Schwerk, N., Hoepfer, M.M., Welte, T., Haverich, A., Kuehn, C., Warnecke, G., Gottlieb, J., Tudorache, I. (2020). Long-term outcomes after intraoperative extracorporeal membrane oxygenation during lung transplantation *J Heart Lung Transplant* 39,915-925. DOI: 10.1016/j.healun.2020.04.020
- Ius, F., Müller, C., Sommer, W., Verboom, M., Hallensleben, M., Salman, J., Siemeni, T., Kühn, C., Avsar, M., Bobylev, D., Poyanmehr, R., Erdfelder, C., Böthig, D., Carlens, J., Bayir, L., Hansen, G., Blasczyk, R., Falk, C., Tecklenburg, A., Haverich, A., Tudorache, I., Schwerk, N., Warnecke, G. (2020). Six-year experience with treatment of early donor-specific anti-HLA antibodies in pediatric lung transplantation using a human immunoglobulin-based protocol *Pediatr Pulmonol* 55,754-764. DOI: 10.1002/ppul.24639
- Ius, F., Salman, J., Knoefel, A.K., Sommer, W., Nakagiri, T., Verboom, M., Siemeni, T., Poyanmehr, R., Bobylev, D., Kuehn, C., Avsar, M., Erdfelder, C., Hallensleben, M., Boethig, D., Hecker, H., Schwerk, N., Mueller, C., Welte, T., Falk, C., Preissler, G., Haverich, A., Tudorache, I., Warnecke, G. (2020). Increased frequency of CD4(+) CD25(high) CD127(low) T cells early after lung transplant is associated with improved graft survival - a retrospective study *Transpl Int* 33,503-516. DOI: 10.1111/tri.13568
- Janssen, H., Felgner, L., Kummer, L., Gillmann, H.J., Schrimpf, C., Rustum, S., Lichtinghagen, R., Sahlmann, B., Weigand, M.A., Teebken, O.E., Theilmeier, G., Larmann, J. (2020). Sequential Surgical Procedures in Vascular Surgery Patients Are Associated With Perioperative Adverse Cardiac Events. *Front Cardiovasc Med* 7,13. DOI: 10.3389/fcvm.2020.00013
- Korte, W., Merz, C., Kirchoff, F., Heimeshoff, J., Goecke, T., Beckmann, E., Kaufeld, T., Fleissner, F., Arar, M., Schilling, T., Haverich, A., Shrestha, M., Martens, A. (2020). Train early and with deliberate practice: simple coronary surgery simulation platform results in fast increase in technical surgical skills in residents and students *Interact Cardiovasc Thorac Surg* 30,871-878. DOI: 10.1093/icvts/ivaa023
- Kraus, X., Pflaum, M., Thoms, S., Jonczyk, R., Witt, M., Scheper, T., Blume, C. (2021). A pre-conditioning protocol of peripheral blood derived endothelial colony forming cells for endothelialization of tissue engineered constructs *Microvasc Res* 134,104107. DOI: 10.1016/j.mvr.2020.104107

- Kreuser, U., Buchert, J., Haase, A., Richter, W., Diederichs, S. (2020). Initial WNT/beta-Catenin Activation Enhanced Mesoderm Commitment, Extracellular Matrix Expression, Cell Aggregation and Cartilage Tissue Yield From Induced Pluripotent Stem Cells *Front Cell Dev Biol* *8*,581331. DOI: 10.3389/fcell.2020.581331
- Latham, S.L., Weiss, N., Schwanke, K., Thiel, C., Croucher, D.R., Zweigerdt, R., Manstein, D.J., Taft, M.H. (2020). Myosin-18B Regulates Higher-Order Organization of the Cardiac Sarcomere through Thin Filament Cross-Linking and Thick Filament Dynamics *Cell Rep* *32*,108090. DOI: 10.1016/j.celrep.2020.108090
- Lipus, A., Janosz, E., Ackermann, M., Hetzel, M., Dahlke, J., Buchegger, T., Wunderlich, S., Martin, U., Cathomen, T., Schambach, A., Moritz, T., Lachmann, N. (2020). Targeted Integration of Inducible Caspase-9 in Human iPSCs Allows Efficient in vitro Clearance of iPSCs and iPSC-Macrophages *Int J Mol Sci* *21*,DOI: 10.3390/ijms21072481
- Mallis, P., Katsimpoulas, M., Kostakis, A., Dipresa, D., Korossis, S., Papapanagioutou, A., Kassi, E., Stavropoulos-Giokas, C., Michalopoulos, E. (2020). Vitrified Human Umbilical Arteries as Potential Grafts for Vascular Tissue Engineering *Tissue Eng Regen Med* *17*,285-299. DOI: 10.1007/s13770-020-00243-x
- Marasco, S., Simon, A.R., Tsui, S., Schramm, R., Eifert, S., Hagl, C.M., Pac, M., Kervan, U., Fiane, A.E., Wagner, F.M., Garbade, J., Özbaran, M., Hayward, C.S., Zimpfer, D., Schmitto, J.D. (2020). International experience using a durable, centrifugal-flow ventricular assist device for biventricular support *J Heart Lung Transplant* *39*,1372-1379. DOI: 10.1016/j.healun.2020.08.006
- Mariani, S., Hanke, J.S., Dogan, G., Schmitto, J.D. (2020). Out of hospital management of LVAD patients during COVID-19 outbreak *Artif Organs* *44*,873-876. DOI: 10.1111/aor.13744
- Martin-Fernandez, M., Bravo Garcia-Morato, M., Gruber, C., Murias Loza, S., Malik, M.N.H., Alshime, F., Alakeel, A., Valdez, R., Buta, S., Buda, G., Marti, M.A., Larralde, M., Boisson, B., Feito Rodriguez, M., Qiu, X., Chrabieh, M., Al Ayed, M., Al Muhsen, S., Desai, J.V., Ferre, E.M.N., Rosenzweig, S.D., Amador-Borrero, B., Bravo-Gallego, L.Y., Olmer, R., Merkert, S., Bret, M., Sood, A.K., Al-Rabiaah, A., Temsah, M.H., Halwani, R., Hernandez, M., Pessler, F., Casanova, J.L., Bustamante, J., Lionakis, M.S., Bogunovic, D. (2020). Systemic Type I IFN Inflammation in Human ISG15 Deficiency Leads to Necrotizing Skin Lesions *Cell Rep* *31*,107633. DOI: 10.1016/j.celrep.2020.107633
- Memaran, N., Schwalba, M., Borchert-Mörlins, B., von der Born, J., Markefke, S., Bauer, E., von Wick, A., Epping, J., von Maltzahn, N., Heyn-Schmidt, I., Grams, L., Homeyer, D., Kerling, A., Stiesch, M., Tegtbur, U., Haverich, A., Melk, A. (2020). Gesundheit und Fitness von deutschen Schulkindern. *Monatsschr Kinderheilkd* *168*,597-607. DOI: 10.1007/s00112-020-00882-3
- Merkert, S., Jaboreck, M.C., Engels, L., Malik, M.N.H., Göhring, G., Pessler, F., Martin, U., Olmer, R. (2021). Generation of two human ISG15 knockout iPSC clones using CRISPR/Cas9 editing *Stem Cell Res* *50*,102135. DOI: 10.1016/j.scr.2020.102135
- Merkert, S., Schubert, M., Haase, A., Janssens, H.M., Scholte, B., Lachmann, N., Göhring, G., Martin, U. (2020). Generation of an induced pluripotent stem cell line (MHHi018-A) from a patient with Cystic Fibrosis carrying p.Asn1303Lys (N1303K) mutation. *Stem Cell Res* *44*,101744. DOI: 10.1016/j.scr.2020.101744
- Moye, S., Bormann, T., Maus, R., Sparwasser, T., Sandrock, I., Prinz, I., Warnecke, G., Welte, T., Gauldie, J., Kolb, M., Maus, U.A. (2020). Regulatory T Cells Limit Pneumococcus-Induced Exacerbation of Lung Fibrosis in Mice. *J Immunol* *204*,2429-2438. DOI: 10.4049/jimmunol.1900980
- Mutsenko, V., Knaack, S., Lauterboeck, L., Tarusin, D., Sydykov, B., Cabisco, R., Ivnev, D., Belikan, J., Beck, A., Dipresa, D., Lode, A., El Khassawna, T., Kampschulte, M., Scharf, R., Petrenko, A.Y., Korossis, S., Wolkers, W.F., Gelinsky, M., Glasmacher, B., Gryshkov, O. (2020). Effect of 'in air' freezing on post-thaw recovery of Callithrix jacchus mesenchymal stromal cells and properties of 3D collagen-hydroxyapatite scaffolds *Cryobiology* *92*,215-230. DOI: 10.1016/j.cryobiol.2020.01.015
- Nicin, L., Abplanalp, W.T., Mellentin, H., Kattih, B., Tombor, L., John, D., Schmitto, J.D., Heineke, J., Emrich, F., Arsalan, M., Holubec, T., Walther, T., Zeiher, A.M., Dimmeler, S. (2020). Cell type-specific expression of the putative SARS-CoV-2 receptor ACE2 in human hearts *Eur Heart J* *41*,1804-1806. DOI: 10.1093/eurheartj/ehaa311
- Nöhre, M., Paslakis, G., Albayrak, O., Bauer-Hohmann, M., Brederecke, J., Eser-Valeri, D., Tudorache, I., de Zwaan, M. (2020). Factor Analyses and Validity of the Transplant Evaluation Rating Scale (TERS) in a Large Sample of Lung Transplant Candidates *Front Psychiatry* *11*,373. DOI: 10.3389/fpsy.2020.00373
- Nowak-Imialek, M., Wunderlich, S., Herrmann, D., Breitschuh-Leibling, S., Göhring, G., Petersen, B., Klein, S., Baulain, U., Lucas-Hahn, A., Martin, U., Niemann, H. (2020). In Vitro and In Vivo Interspecies Chimera Assay Using Early Pig Embryos *Cell Reprogram* *22*,118-133. DOI: 10.1089/cell.2019.0107

Obed, D., Fleissner, F., Martens, A., Cebotari, S., Haverich, A., Warnecke, G., Ismail, I. (2020). Total Arterial Revascularization with Radial Artery and Internal Thoracic Artery T-Grafts Is Associated with Superior Long-Term Survival in Patients Undergoing Coronary Artery Bypass Grafting *Ann Thorac Cardiovasc Surg* *26*,30-39. DOI: 10.5761/atcs.0a.19-00226

Özdemir Köken, Z., Kervan, U., Avsar, M., Kocabeyoglu, S.S., Pac, M. (2020). Quality of life among patients with left ventricular assist device: Comparison of two populations *Turk Gogus Kalp Damar Cerrahisi Derg* *28*,308-314. DOI: 10.5606/tgkdc.dergisi.2020.18541

Pflaum, M., Merhej, H., Peredo, A., De, A., Dipresa, D., Wiegmann, B., Wolkers, W., Haverich, A., Korossis, S. (2020). Hypothermic preservation of endothelialized gas-exchange membranes *Artif Organs* *44*,e552-e565. DOI: 10.1111/aor.13776

Pöhler, G.H., Klimes, F., Voskrebenez, A., Behrendt, L., Czerner, C., Gutberlet, M., Cebotari, S., Lus, F., Fegbeutel, C., Schoenfeld, C., Kaireit, T.F., Hauck, E.F., Olsson, K.M., Hoepfer, M.M., Wacker, F., Vogel-Claussen, J. (2020). Chronic Thromboembolic Pulmonary Hypertension Perioperative Monitoring Using Phase-Resolved Functional Lung (PREFUL)-MRI *J Magn Reson Imaging* *52*,610-619. DOI: 10.1002/jmri.27097

Popova, A.V., Shneider, M.M., Myakinina, V.P., Bannov, V.A., Edelstein, M.V., Rubalskii, E.O., Aleshkin, A.V., Fursova, N.K., Volozhantsev, N.V. (2019). Characterization of myophage AM24 infecting *Acinetobacter baumannii* of the K9 capsular type *Arch Virol* *164*,1493-1497. DOI: 10.1007/s00705-019-04208-x

Rojas, S.V., Trinh-Adams, M.L., Uribarri, A., Fleissner, F., Iablonskii, P., Rojas-Hernandez, S., Ricklefs, M., Martens, A., Rümke, S., Warnecke, G., Cebotari, S., Haverich, A., Ismail, I. (2019). Early surgical myocardial revascularization in non-ST-segment elevation acute coronary syndrome *J Thorac Dis* *11*,4444-4452. DOI: 10.21037/jtd.2019.11.08

Rubalskii, E., Rümke, S., Salmoukas, C., Boyle, E.C., Warnecke, G., Tudorache, I., Shrestha, M., Schmitto, J.D., Martens, A., Rojas, S.V., Ziesing, S., Bochkareva, S., Kuehn, C., Haverich, A. (2020). Bacteriophage Therapy for Critical Infections Related to Cardiothoracic Surgery *Antibiotics (Basel)* *9*,232.

Sahabian, A., von Schlehdorn, L., Drick, N., Pink, I., Dahmann, J., Haase, A., Göhring, G., Welte, T., Martin, U., Ringshausen, F.C., Olmer, R. (2020). Generation of two hiPSC clones (MHHi019-A, MHHi019-B) from a primary ciliary dyskinesia patient carrying a homozygous deletion in the NME5 gene (c.415delA (p.Ile139Tyrfs*8)). *Stem Cell Res* *48*,101988. DOI: 10.1016/j.scr.2020.101988

Salman, J., Bernhard, B.A., Lus, F., Poyanmehr, R., Sommer, W., Aburahma, K., Alhadidi, H., Siemeni, T., Kuehn, C., Avsar, M., Haverich, A., Warnecke, G., Tudorache, I. (2021). Intraoperative Extracorporeal Circulatory Support in Lung Transplantation for Pulmonary Fibrosis *Ann Thorac Surg* *111*,1316-1324. DOI: 10.1016/j.athoracsur.2020.06.083

Schilling, T., Bauer, M., Hartung, D., Brandes, G., Tudorache, I., Cebotari, S., Meyer, T., Wacker, F., Haverich, A., Hassel, T. (2020). Stabilisation of a Segment of Autologous Vascularised Stomach as a Patch for Myocardial Reconstruction with Degradable Magnesium Alloy Scaffolds in a Swine Model. *Crystals* *10*,438. DOI: 10.3390/cryst10060438

Smart, I., Goecke, T., Ramm, R., Petersen, B., Lenz, D., Haverich, A., Niemann, H., Hilfiker, A. (2021). Dot blots of solubilized extracellular matrix allow quantification of human antibodies bound to epitopes present in decellularized porcine pulmonary heart valves *Xenotransplantation* *28*,e12646. DOI: 10.1111/xen.12646

Starke, H., Zinne, N., Leffler, A., Zardo, P., Karsten, J. (2020). Developing a minimally-invasive anaesthesiological approach to non-intubated uniportal video-assisted thoracoscopic surgery in minor and major thoracic surgery *J Thorac Dis* *12*,7202-7217. DOI: 10.21037/jtd.20-2122

Stauss, R.D., Grosse, G.M., Neubert, L., Falk, C.S., Jonigk, D., Kühnel, M.P., Gabriel, M.M., Schuppner, R., Lichtinghagen, R., Wilhelmi, M., Weissenborn, K., Schrimpf, C. (2020). Distinct systemic cytokine networks in symptomatic and asymptomatic carotid stenosis. *Sci Rep* *10*,21963. DOI: 10.1038/s41598-020-78941-8

Stelling, E., Ricke-Hoch, M., Erschow, S., Hoffmann, S., Bergmann, A.K., Heimerl, M., Pietzsch, S., Battmer, K., Haase, A., Stapel, B., Scherr, M., Balligand, J.L., Binah, O., Hilfiker-Kleiner, D. (2020). Increased prostaglandin-D2 in male STAT3-deficient hearts shifts cardiac progenitor cells from endothelial to white adipocyte differentiation *PLoS Biol* *18*,e3000739. DOI: 10.1371/journal.pbio.3000739

Stenner, H.T., Eigendorf, J., Kerling, A., Kueck, M., Hanke, A.A., Boyen, J., Nelius, A.K., Melk, A., Boethig, D., Bara, C., Hilfiker, A., Berliner, D., Bauersachs, J., Hilfiker-Kleiner, D., Eberhard, J., Stiesch, M., Schippert, C., Haverich, A., Tegtbur, U., Haufe, S. (2020). Effects of six month personalized endurance training on work ability in middle-aged sedentary women: a secondary analysis of a randomized controlled trial. *J Occup Med Toxicol* *15*,8. DOI: 10.1186/s12995-020-00261-4

Süsal, C., Kumru, G., Döhler, B., Morath, C., Baas, M., Lutz, J., Unterrainer, C., Arns, W., Aubert, O., Bara, C., Beiras-Fernandez, A., Böhmig, G.A., Bosmüller, C., Diekmann, F., Dutkowski, P., Hauser, I., Legendre, C., Lozanovski, V.J., Mehrabi, A., Melk, A., Minor, T.,

- Mueller, T.F., Pisarski, P., Rostaing, L., Schemmer, P., Schneeberger, S., Schwenger, V., Sommerer, C., Tönshoff, B., Viebahn, R., Viklicky, O., Weimer, R., Weiss, K.H., Zeier, M., Zivcic-Cosic, S., Heemann, U. (2020). Should kidney allografts from old donors be allocated only to old recipients? *Transpl Int* *33*,849-857. DOI: 10.1111/tri.13628
- Szepes, M., Melchert, A., Dahlmann, J., Hegemann, J., Werlein, C., Jonigk, D., Haverich, A., Martin, U., Olmer, R., Gruh, I. (2020). Dual Function of iPSC-Derived Pericyte-Like Cells in Vascularization and Fibrosis-Related Cardiac Tissue Remodeling In Vitro. *Int J Mol Sci* *21*,8947. DOI: 10.3390/ijms21238947
- Taghizadeh, S., Jones, M.R., Olmer, R., Ulrich, S., Danopoulos, S., Shen, C., Chen, C., Wilhelm, J., Martin, U., Chen, C., Al Alam, D., Belusci, S. (2020). Fgf10 Signaling-Based Evidence for the Existence of an Embryonic Stage Distinct From the Pseudoglandular Stage During Mouse Lung Development *Front Cell Dev Biol* *8*,576604. DOI: 10.3389/fcell.2020.576604
- Tongers, J., Sieweke, J.T., Kühn, C., Napp, L.C., Flierl, U., Röntgen, P., Schmitto, J.D., Sedding, D.G., Haverich, A., Bauersachs, J., Schäfer, A. (2020). Early Escalation of Mechanical Circulatory Support Stabilizes and Potentially Rescues Patients in Refractory Cardiogenic Shock *Circ Heart Fail* *13*,e005853. DOI: 10.1161/CIRCHEARTFAILURE.118.005853
- Viereck, J., Bührke, A., Foinquinos, A., Chatterjee, S., Kleeberger, J.A., Xiao, K., Janssen-Peters, H., Batkai, S., Ramanujam, D., Kraft, T., Cebotari, S., Gueler, F., Beyer, A.M., Schmitz, J., Bräsen, J.H., Schmitto, J.D., Gyöngyösi, M., Löser, A., Hirt, M.N., Eschenhagen, T., Engelhardt, S., Bär, C., Thum, T. (2020). Targeting muscle-enriched long non-coding RNA H19 reverses pathological cardiac hypertrophy. *Eur Heart J* *41*,3462-3474. DOI: 10.1093/eurheartj/ehaa519
- Waldenburger, N., Steinecke, M., Peters, L., Jünemann, F., Bara, C., Zimmermann, T. (2020). Depression, anxiety, fear of progression, and emotional arousal in couples after left ventricular assist device implantation *ESC Heart Fail* *7*,3022-3028. DOI: 10.1002/ehf2.12927
- Weber, N., Kowalski, K., Holler, T., Radocaj, A., Fischer, M., Thiemann, S., de la Roche, J., Schwanke, K., Piep, B., Peschel, N., Krumm, U., Lingk, A., Wendland, M., Greten, S., Schmitto, J.D., Ismail, I., Warnecke, G., Zywiets, U., Chichkov, B., Meissner, J., Haverich, A., Martin, U., Brenner, B., Zweigerdt, R., Kraft, T. (2020). Advanced Single-Cell Mapping Reveals that in hESC Cardiomyocytes Contraction Kinetics and Action Potential Are Independent of Myosin Isoform. *Stem Cell Reports* *14*,788-802. DOI: 10.1016/j.stemcr.2020.03.015
- Williams, B., Löbel, W., Finklea, F., Halloin, C., Ritzenhoff, K., Manstein, F., Mohammadi, S., Hashemi, M., Zweigerdt, R., Lipke, E., Cremaschi, S. (2020). Prediction of Human Induced Pluripotent Stem Cell Cardiac Differentiation Outcome by Multifactorial Process Modeling *Front Bioeng Biotechnol* *8*,851. DOI: 10.3389/fbioe.2020.00851
- Wolfien, M., Klatt, D., Salybekov, A.A., Li, M., Komatsu-Horii, M., Gaebel, R., Philippou-Massier, J., Schrunner, E., Akimaru, H., Akimaru, E., David, R., Garbade, J., Gummert, J., Haverich, A., Hennig, H., Iwasaki, H., Kaminski, A., Kawamoto, A., Klopsch, C., Kowallick, J.T., Krebs, S., Nesteruk, J., Reichensperner, H., Ritter, C., Stamm, C., Tani-Yokoyama, A., Blum, H., Wolkenhauer, O., Schambach, A., Asahara, T., Steinhoff, G. (2020). Hematopoietic stem-cell senescence and myocardial repair - Coronary artery disease genotype/phenotype analysis of post-MI myocardial regeneration response induced by CABG/CD133+ bone marrow hematopoietic stem cell treatment in RCT PERFECT Phase 3 *EBioMedicine* *57*,DOI: 10.1016/j.ebiom.2020.102862
- Zimpfer, D., Fiane, A.E., Larbalestier, R., Tsui, S., Jansz, P., Simon, A., Schueler, S., Strueber, M., Schmitto, J.D. (2020). Long-Term Survival of Patients With Advanced Heart Failure Receiving an Left Ventricular Assist Device Intended as a Bridge to Transplantation: The Registry to Evaluate the HeartWare Left Ventricular Assist System *Circ Heart Fail* *13*,e006252. DOI: 10.1161/CIRCHEARTFAILURE.119.006252
- Zimpfer, D., Gustafsson, F., Potapov, E., Pya, Y., Schmitto, J., Berchtold-Herz, M., Morshuis, M., Shaw, S.M., Saeed, D., Lavee, J., Heatley, G., Gazzola, C., Garbade, J. (2020). Two-year outcome after implantation of a full magnetically levitated left ventricular assist device: results from the ELEVATE Registry *Eur Heart J* *41*,3801-3809. DOI: 10.1093/eurheartj/ehaa639
- Zippusch, S., Helms, F., Lau, S., Klingenberg, M., Schrimpf, C., Haverich, A., Wilhelmi, M., Böer, U. (2021). Perfusion promotes endothelialized pore formation in high concentration fibrin gels otherwise unsuitable for tube development *Int J Artif Organs* *44*,130-138. DOI: 10.1177/0391398820936700
- Zormpas, C., Eiringhaus, J., Hillmann, H.A.K., Hohmann, S., Müller-Lesse, J., Schmitto, J.D., Veltmann, C., Duncker, D. (2021). Eligibility for subcutaneous implantable cardioverter-defibrillator in patients with left ventricular assist device *J Interv Card Electrophysiol* *60*,303-311. DOI: 10.1007/s10840-020-00810-1
- Zormpas, C., Eiringhaus, J., Hillmann, H.A.K., Hohmann, S., Müller-Lesse, J., Schmitto, J.D., Veltmann, C., Duncker, D. (2021). A novel screening tool to unmask potential interference between S-ICD and left ventricular assist device *J Cardiovasc Electrophysiol* *31*,3286-3292. DOI: 10.1111/jce.14769

Zouhair, S., Sasso, E.D., Tuladhar, S.R., Fidalgo, C., Vedovelli, L., Filippi, A., Borile, G., Bagno, A., Marchesan, M., Giorgio, R., Gregori, D., Wolkers, W.F., Romanato, F., Korossis, S., Gerosa, G., Iop, L. (2020). A Comprehensive Comparison of Bovine and Porcine Decellularized Pericardia: New Insights for Surgical Applications *Biomolecules* *10*, DOI: 10.3390/biom10030371

Übersichtsarbeiten

Kaltenborn, A., Krezdorn, N., Hoffmann, S., Gutcke, A., Haastert-Talini, K., Vogt, P.M., Haverich, A., Wiegmann, B. (2020). Ex vivo limb perfusion for traumatic amputation in military medicine. *Mil Med Res* *7*, 21. DOI: 10.1186/s40779-020-00250-y

Mariani, S., Napp, L.C., Lo Coco, V., Delnoij, T.S.R., Luermans, J.G.L.M., Ter Bekke, R.M.A., Timmermans, C., Li, T., Dogan, G., Schmitto, J.D., Maessen, J., Maesen, B., Lorusso, R. (2020). Mechanical circulatory support for life-threatening arrhythmia: A systematic review *Int J Cardiol* *308*, 42-49. DOI: 10.1016/j.ijcard.2020.03.045

Mariani, S., Richter, J., Pappalardo, F., Belohlavek, J., Lorusso, R., Schmitto, J.D., Bauersachs, J., Napp, L.C. (2020). Mechanical circulatory support for Takotsubo syndrome: a systematic review and meta-analysis *Int J Cardiol* *316*, 31-39. DOI: 10.1016/j.ijcard.2020.05.033

Werlein, C., Seidel, A., Warnecke, G., Gottlieb, J., Laenger, F., Jonigk, D. (2020). Lung Transplant Pathology: An Overview on Current Entities and Procedures *Surg Pathol Clin* *13*, 119-140. DOI: 10.1016/j.path.2019.11.003

Zhong, S., Golpon, H., Zardo, P., Borlak, J. (2021). miRNAs in lung cancer. A systematic review identifies predictive and prognostic miRNA candidates for precision medicine in lung cancer. *Transl Res* *230*, 164-196. DOI: 10.1016/j.trsl.2020.11.012

Letter

Olsson, K.M., Fuge, J., Brod, T., Kamp, J.C., Schmitto, J., Kempf, T., Bauersachs, J., Hoeper, M.M. (2020). Oral iron supplementation with ferric maltol in patients with pulmonary hypertension *Eur Respir J* *56*, DOI: 10.1183/13993003.00616-2020

Case reports

Fleissner, F., Tudorache, I., Christgen, M., Cebotari, S. (2020). Cardiac Phlegmon: Infectious Endocarditis Causing Ventricular Wall Rupture *Thorac Cardiovasc Surg Rep* *9*, e51-e54. DOI: 10.1055/s-0040-1716391

König, T., Hanke, J.S., Dogan, G., Kempf, T., Sieweke, J.T., Schäfer, A., Bauersachs, J., Schmitto, J.D., Napp, L.C. (2021). Advanced preconditioning: Impella 5.5 support for decompensated heart failure before left ventricular assist device surgery *Cardiovasc Revasc Med* *28*, 189-192. DOI: 10.1016/j.carrev.2020.08.022

Mogaldea, A., Rojas, S.V., Ius, F., Kaufeld, T., Sommer, W., Avsar, M., Bara, C., Haverich, A., Warnecke, G., Kuehn, C. (2020). Upper-body cannulation for midterm mechanical circulatory support: A novel bridging strategy to cardiac retransplantation *Int J Artif Organs* DOI: 10.1177/0391398820915476

Pongpamorn, P., Dahlmann, J., Haase, A., Ebeling, C.T., Merkert, S., Göhring, G., Lachmann, N., Martens, A., Haverich, A., Martin, U., Olmer, R. (2020). Generation of three induced pluripotent stem cell lines (MHHi012-A, MHHi013-A, MHHi014-A) from a family with Loey-Dietz syndrome carrying a heterozygous p.M253I (c.759G>A) mutation in the TGFBR1 gene. *Stem Cell Res* *43*, 101707. DOI: 10.1016/j.scr.2020.101707

Richter, J., Vogel-Claussen, J., Bobylev, D., Horke, A., Westhoff-Bleck, M., Bauersachs, J., Napp, L.C. (2021). Separate origin of four major coronary arteries *Cardiovasc Revasc Med* *25*, 86-88. DOI: 10.1016/j.carrev.2020.12.006

Comments

Beckmann, E., Martens, A., Kaufeld, T., Shrestha, M.L. (2020). Reply to Baikoussis et al *Eur J Cardiothorac Surg* *58*, 1106-1107. DOI: 10.1093/ejcts/ezaa168

Mariani, S., Dogan, G., Schmitto, J.D. (2020). Less Invasive Left Ventricular Assist Device Implantation: One Right Step Toward the Future *ASAIO J* *66*, 1014-1015. DOI: 10.1097/MAT.0000000000001272

Editorials

Boyle, E.C., Haverich, A. (2020). Microvasculature dysfunction as the common thread between atherosclerosis, Kawasaki disease, and severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)-associated multi-system inflammatory syndrome in children *Eur J Cardiothorac Surg* *58*, 1109-1110. DOI: 10.1093/ejcts/ezaa367

Mariani, S., Chatterjee, A., Hanke, J.S., Homann, K., Dogan, G., Haverich, A., Schmitto, J.D. (2019). Is this the right MOMENTUM?-evidence from a HeartMate 3 randomized trial *J Thorac Dis* *11*, 5626-5630. DOI: 10.21037/jtd.2019.11.60

Buchbeiträge, Monografien

Coffee, M., Biswanath, S., Bolesani, E., Zweigerdt, R. (2020). Heart Muscle Tissue Engineering. In: Essential Current Concepts in Stem Cell Biology, Brand-Saberi B., eds. (Cham: Springer International Publishing) pp. 99-121

Toumpaniari, S., Hilfiker, A., Haverich, A., Korossis, S. (2020). Decellularized Vascular Grafts. In: Tissue-Engineered Vascular Grafts, Walpoth B.H., eds. (Cham: Springer International Publishing) pp. 207-269

Abstracts

Bellmàs Sanz, R., Hitz, A., Wiegmann, B., Bläsing, K., Sommer, W., Ius, F., Kühne, J., Knöfel, A., Horn, L., Tudorache, I., Haverich, A., Jonigk, D., Warnecke, G., Falk, C. (2020). Donor T and NK Cells with a Special Tissue-Resident Memory Phenotype Migrate into the Periphery of Lung Transplant Recipients - A Potential Feature for Tolerance Development. *J Heart Lung Transplant* 39,5198. DOI: 10.1016/j.healun.2020.01.801

Hitz, A., Bellmàs Sanz, R., Ius, F., Kühne, J., Wiegmann, B., Sommer, W., Salman, J., Siemeni, T., Greer, M., Kühn, C., Avsar, M., Haverich, A., Warnecke, G., Falk, C.S. (2020). Lung Transplant Recipients Developing Early DSA within the First Month are Characterized by a Higher Frequency of Naïve and a Lower Frequency of Memory B Cells. *J Heart Lung Transplant* 39,5324. DOI: 10.1016/j.healun.2020.01.333

Ius, F., Draeger, H., Sommer, W., Salman, J., Schwerek, N., Gottlieb, J., Welte, T., Haverich, A., Tudorache, I., Warnecke, G. (2020). Impact of Unilateral Diaphragmatic Dysfunction on Postoperative Outcome after Bilateral Lung Transplantation. *Thorac Cardiovasc Surg* 68,DGTHG-V106. DOI: 10.1055/s-0040-1705373

Ius, F., Draeger, H., Sommer, W., Siemeni, T., Kühn, C., Avsar, M., Bobylev, D., Schwerek, N., Greer, M., Haverich, A., Tudorache, I., Warnecke, G. (2020). Impact of Diaphragmatic Dysfunction on Postoperative Course after Bilateral Lung Transplantation. *J Heart Lung Transplant* 39,5124. DOI: 10.1016/j.healun.2020.01.1014

Ius, F., Rojas, S.V., Kaufeld, T., Sommer, W., Goecke, T., Salman, J., Bara, C., Haverich, A., Avsar, M., Warnecke, G. (2020). Heart Preservation with the Organ Care System in Extended Criteria Donors: A Single-Center Experience. *Thorac Cardiovasc Surg* 68,DGTHG-V208. DOI: 10.1055/s-0040-1705448

Ius, F., Salman, J., Knoefel, A., Nakagiri, T., Sommer, W., Siemeni, T., Kühn, C., Avsar, M., Falk, C.S., Haverich, A., Tudorache, I., Warnecke, G. (2020). Increased Frequency of Regulatory CD127^{low} T Cells Early after Lung Transplant is Associated with Improved Graft Survival: 10-Year Single-Center Experience. *J Heart Lung Transplant* 39,558. DOI: 10.1016/j.healun.2020.01.1248

Ius, F., Salman, J., Sommer, W., Poyanmehr, R., Avsar, M., Siemeni, T., Bobylev, D., Schwerek, N., Müller, C., Haverich, A., Kühn, C., Warnecke, G., Tudorache, I. (2020). Extracorporeal Membrane Oxygenation during Lung Transplantation and Long-Term Graft Function: Results from a 9-Year Single-Center Experience. *J Heart Lung Transplant* 39,5104. DOI: 10.1016/j.healun.2020.01.961

Ius, F., Schibilsky, D., Sponga, S., Rojas, S.V., Benk, C., Guzzi, G., Tursi, V., Beyersdorf, F., Haverich, A., Warnecke, G., Siepe, M., Livi, U. (2020). Heart Preservation with the Organ Care System in Extended Criteria Donor Hearts: A Three-Center Experience. *J Heart Lung Transplant* 39,5265. DOI: 10.1016/j.healun.2020.01.578

Ius, F., Sommer, W., Rojas, S.V., Kaufeld, T., Bara, C., Salman, J., Poyanmehr, R., Avsar, M., Tudorache, I., Falk, C.S., Haverich, A., Warnecke, G. (2020). Treatment of Anti-HLA Donor-Specific Antibodies in Heart Transplantation: A Single-Center Experience. *J Heart Lung Transplant* 39,5241. DOI: 10.1016/j.healun.2020.01.916

Ius, F., Sommer, W., Salman, J., Siemeni, T., Kühn, C., Avsar, M., Schwerek, N., Haverich, A., Tudorache, I., Warnecke, G. (2020). Six-Year Clinical Results of an IgA- and IgM-Enriched Human Immunoglobulin-Based Therapy for Early Anti-HLA Donor Specific Antibodies after Lung Transplantation. *Thorac Cardiovasc Surg* 68,DGTHG-V110. DOI: 10.1055/s-0040-1705377

Ius, F., Sommer, W., Salman, J., Siemeni, T., Kühn, C., Avsar, M., Schwerek, N., Müller, C., Falk, C., Haverich, A., Tudorache, I., Warnecke, G. (2020). Six-Year Results of an IgA- and IgM-Enriched Immunoglobulin-Based Therapy for Early Detectable Anti-HLA Donor Specific Antibodies in Lung Transplantation. *J Heart Lung Transplant* 39,580. DOI: 10.1016/j.healun.2020.01.1302

Knöfel, A.K., Siemeni, T., Madrahimov, N., Sommer, W., Avsar, M., Ius, F., Tudorache, I., Kühn, C., Daemen, K., Haverich, A., Falk, C., Warnecke, G. (2020). PGD in lung transplant recipients at different times in a humanized mouse transplant model reflect the different influences of donor and recipient by the development of arteriosclerosis. *International Society of Heart and Lung Transplantation (ISHLT)*.

Kühne, J.F., Wandrer, F., Wiegmann, B., Ledwoch, N., Sanz, R.B., Beushausen, K., Keil, J., Ius, F., Sommer, W., Rochas-Hernandez, S., Kühn, C., Tudorache, I., Avsar, M., Haverich, A., Warnecke, G., Falk, C.S. (2020). In Combined Heart/Lung Transplantation, the Reperfusion Response in Recipients is Dominated by Heart-Associated Cytokine and Endothelial Patterns While the Ischemic Injury in the Storage Solution is Dominated by a Lung-Associated Microenvironment. *J Heart Lung Transplant* 39,5288-5289. DOI: 10.1016/j.healun.2020.01.638

Mariani, S., Napp, L.C., Schmitto, J.D. (2020). Mens sana in corpore sano: Challenges beyond LVAD implantation *Artif Organs* 44,1310-1311. DOI: 10.1111/aor.13774

Nakagiri, T., Knöfel, A.K., Janciauskiene, S.M., Wrenger, S., Welte, T., Haverich, A., Warnecke, G. (2020). Alpha1-antitrypsin therapy suppresses acute rejection in an orthotopic murine lung transplantation model. *DZL Jahrestreffen*, 23.-24.Januar 2020, Travemünde.

Nissen, A.P., Smith, J.A., Schmitto, J.D., Mariani, S., Almeida, R.M.S., Afoke, J., Asai, T., Luc, J.G.Y., Shapira, O.M., Mennander, A., Tanaka, A., Kaleda, V.I., Wan, S., Wick, A., Reichenspurner, H., Cohn, B.M., Nguyen, T.C. (2021). Global perspectives on cardiothoracic, cardiovascular, and cardiac surgical training *J Thorac Cardiovasc Surg* 161,168-174.e5. DOI: 10.1016/j.jtcvs.2019.12.111

Rojas, S.V., Ius, F., Kaufeld, T., Sommer, W., Goecke, T., Poyanmehr, R., Avsar, M., Bara, C., Haverich, A., Warnecke, G. (2020). Ex vivo Heart Perfusion for Heart Transplantation: A Single-Center Update after 5 Years. *Thorac Cardiovasc Surg* 68, DGTHG-V108. DOI: 10.1055/s-0040-1705375

Rojas, S.V., Ius, F., Schibilsky, D., Kaufeld, T., Benk, C., Sommer, W., Goecke, T., Avsar, M., Poyanmehr, R., Rümke, S., Mogaldea, A., Bobylev, D., Salman, J., Siemeni, T., Bara, C., Beyersdorf, F., Haverich, A., Siepe, M., Warnecke, G. (2020). Ex Vivo Organ Perfusion for Heart Procurement in High-Risk Transplantations: A Multicenter Study. *J Heart Lung Transplant* 39, S135. DOI: 10.1016/j.healun.2020.01.1044

Schmitto, J.D., Mariani, S., Abicht, T.O., Couper, G.S., Danter, M.R., Itoh, A., Khalpey, Z., Kon, Z.N., Maltais, S., Mokadam, N.A., Pham, D.T., Popov, A.F., Saeed, D., Simon, A.R., Zimpfer, D., Strueber, M. (2021). Expert Consensus Paper: Lateral Thoracotomy for Centrifugal Ventricular Assist Device Implant *Ann Thorac Surg* 112,1687-1697. DOI: 10.1016/j.athoracsur.2020.09.063

Siemeni, T., Knoefel, A., Ius, F., Salman, J., Sommer, W., Avsar, M., Kuehn, C., Maus, U., Falk, C., Tudorache, I., Haverich, A., Warnecke, G. (2020). Correlation of CLAD in Lung Transplant Recipients with Transplant Arteriosclerosis in Humanized Mice: A 5-years Follow Up Analysis. *J Heart Lung Transplant* 39, S200. DOI: 10.1016/j.healun.2020.01.807

Sponga, S., Ius, F., Ferrara, V., Royas, S., Guzzi, G., Lechiancole, A., Sommer, W., Kaufeld, T., Haverich, A., Livi, U., Warnecke, G. (2020). Normothermic Ex-Vivo Perfusion for Donor Heart Preservation in Transplantation of Patients Bridged with Ventricular Assist Devices. *J Heart Lung Transplant* 39, S245. DOI: 10.1016/j.healun.2020.01.926

Weber, N., Holler, T., Meißner, J., Montag, J., Fischer, M., de la Roche, J., Thiemann, S., Peschel, N., Kathrin Mayer, A., Schwanke, K., Piep, B., Martin, U., Zweigerdt, R., Kraft, T. (2020). Hypertrophic Cardiomyopathy: Prolonged Twitch, Calcium Transients and Action Potentials in Human Stem Cell-Derived Cardiomyocytes with β -Myosin Mutation R723G. *Biophys J* 118,257a. DOI: 10.1016/j.bpj.2019.11.1496

sonstiges

Chen, E., Gleason, T., Yang, B., Coselli, J., Shrestha, M. (2020). Discussions in Cardiothoracic Treatment and Care: The Contemporary Management of Acute Type A Aortic Dissection *Semin Thorac Cardiovasc Surg* 32,202-210. DOI: 10.1053/j.semtcvs.2020.02.011

Ius, F. (2020). Clinical results of treatment of early detectable anti-HLA donor specific antibodies with human intravenous IgA- and IgM-enriched immunoglobulins (IgGAM) in lung transplantation. *Fortbildung für Firma Biotest*, 03. September 2020.

Ius, F. (2020). Management with IgM. 2nd International Symposium: AMR and beyond, 17. November 2020, Padua (Italien).

Ius, F. (2020). Re-transplantation in cystic fibrosis: a new opportunity? IV. International Conference on End Stage Lung Diseases (ESLDS), 10. November 2020, Padua (Italien).

Ius, F. (2020). Therapie von (e) Donor-spezifischen Antikörpern in der Herz-transplantation. 29. Jahrestagung der deutschen Transplantationsgesellschaft, 15.-17. Oktober 2020, Köln.

Valiulis, A., Bousquet, J., Veryga, A., Suprun, U., Sergeenko, D., Cebotari, S., Borelli, D., Pietikainen, S., Banyas, J., Agache, I., Billo, N.E., Bush, A., Chkhaidze, I., Dubey, L., Fokkens, W.J., Grigg, J., Haahtela, T., Julge, K., Katilov, O., Khaltayev, N., Odemyr, M., Palkonen, S., Savli, R., Utkus, A., Vilc, V., Alasevicius, T., Bedbrook, A., Bewick, M., Chorostowska-Wynimko, J., Danila, E., Hadjipanayis, A., Kar-seladze, R., Kvedariene, V., Lesinskas, E., Münter, L., Samolinski, B., Sargsyan, S., Sitkauskiene, B., Somekh, D., Vaideliene, L., Valiulis, A., Hellings, P.W. (2019). Vilnius Declaration on chronic respiratory diseases: multisectoral care pathways embedding guided self-management, mHealth and air pollution in chronic respiratory diseases *Clin Transl Allergy* 9,7. DOI: 10.1186/s13601-019-0242-2

Habilitationen

Schrimpf, C. (2020). Gefäßchirurgie "From Bench to Bedside". Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Promotionen

Chauhan, K. (2018). Effect of oxidative stress on the behavior of endothelial cells seeded onto gas exchange membranes. Dissertation, Medizinische Hochschule Hannover, 2020

Franzke, K. (2018). Ergebnisse der pulmonalen Metastasen Chirurgie - Vergleich der Laserresektion mit konventionellen Resektionstechniken Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Heimeshoff, J. (2020). Tragbare Defibrillatorwesten zum Schutz vor postoperativen ventrikulären Arrhythmien bei Patienten mit herzchirurgischen Eingriffen Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Ichanti, H. (2020). Development of artificial vascularized scaffolds for tissue engineering. Dissertation, Medizinische Hochschule Hannover, 2020

Jeinsen, N. (2020). Biokompatibilität von intensiviert dezellularisierten equinen Arteriae Carotides in einem subkutanen Implantationsmodell in Ratten und in einem humanen in-vitro-Modell. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Mester, N. (2020). Individuelle Immunantwort gegenüber dezellularisierten pulmonalen Homografts Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Obed, D. (2020). Langzeitergebnisse der total arteriellen Revaskularisation mittels Arteria thoracica interna sinistra und Arteria radialis T-Grafts im Vergleich zu aortokoronaren Venenbypässen in der Koronararterienchirurgie. Dissertation, Medizinische Hochschule Hannover, 2020

Przybylek, B. (2019). Neuer Zytokin-Score als Indikator für fortgeschrittene Transplantatvaskulopathie nach orthotoper Herztransplantation. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Schulz, J. (2019). Langzeitergebnisse der Mitroflow Aortenklappen-Prothese bei über 800 Patienten: begrenzte Durabilität und Mechanismen der Dysfunktion. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Schwäblein, I.F. (2019). Ergebnisse der ersten 100 Patienten, die mit minimal invasiver Technik ein HeartWare Linksherzunterstützungssystem erhielten Dissertation, Medizinische Hochschule Hannover, 2020

Masterarbeiten

Marth, N. (2020). Generation of human induced Pluripotent Stem (iPS) Reporter Cell Lines using Designer Nucleases. Masterarbeit, Medizinische Hochschule Hannover, 2020

Schild, Y. (2020). In vitro modelling of Loey's-Dietz-Syndrom pathophysiology utilizing patient specific hiPSC derived smooth muscle cells. Masterarbeit, Medizinische Hochschule Hannover, 2020

von Schledorn, L. (2020). Characterization of a Primary Ciliary Dyskinesia-Patient Specific hiPSC Line and Differentiation Towards Respiratory Epithelial Cells. Masterarbeit, Medizinische Hochschule Hannover, 2020

Bachelorarbeiten

Koitka, F. (2020). GFP to BFP Conversion to Visualize and Establish CRISPR-Based Prime Editing in Human iPSCs. Bachelorarbeit, Medizinische Hochschule Hannover, 2020

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Originalpublikationen

Jakubovski, E., Pisarenko, A., Fremer, C., Haas, M., May, M., Schumacher, C., Schindler, C., Häckl, S., Aguirre Davila, L., Koch, A., Brunner, A., Cimpianu, C.L., Lutz, B., Bindila, L., Müller-Vahl, K. (2020). The CANNA-TICS Study Protocol: A Randomized Multi-Center Double-Blind Placebo Controlled Trial to Demonstrate the Efficacy and Safety of Nabiximols in the Treatment of Adults With Chronic Tic Disorders. *Front Psychiatry* 11,575826. DOI: 10.3389/fpsy.2020.575826

Kremsner, P., Mann, P., Bosch, J., Fendel, R., Gabor, J.J., Kreidenweiss, A., Kroidl, A., Leroux-Roels, I., Leroux-Roels, G., Schindler, C., Schunk, M., Velavan, T.P., Fotin-Mlecsek, M., Müller, S., Quintini, G., Schönborn-Kellenberger, O., Vahrenhorst, D., Verstraeten, T., Walz,

L., Wolz, O., Oostvogels, L. (2020).Phase 1 Assessment of the Safety and Immunogenicity of an mRNA- Lipid Nanoparticle Vaccine Candidate Against SARS-CoV-2 in Human Volunteers. medRxiv DOI: 10.1101/2020.11.09.20228551

Übersichtsarbeiten

May, M., Schindler, C., Engeli, S. (2020).Modern pharmacological treatment of obese patients Ther Adv Endocrinol Metab 11,DOI: 10.1177/2042018819897527

Klinik für Kinderchirurgie – 6760

Originalpublikationen

Beck, C.E., Sümpelmann, R., Nickel, K., Keil, O., Kuebler, J.F., Boethig, D., Witt, L., Dennhardt, N. (2020).Systemic and regional cerebral perfusion in small infants undergoing minor lower abdominal surgery under awake caudal anaesthesia: An observational study Eur J Anaesthesiol 37,696-700. DOI: 10.1097/EJA.0000000000001150

Bloemeke, J., Witt, S., Bullinger, M., Dingemann, J., Dellenmark-Blom, M., Quitmann, J. (2020).Health-Related Quality of Life Assessment in Children and their Families: Aspects of Importance to the Pediatric Surgeon Eur J Pediatr Surg 30,232-238. DOI: 10.1055/s-0040-1710390

Dellenmark-Blom, M., Quitmann, J., Dingemann, C. (2020).Health-Related Quality of Life in Patients after Repair of Esophageal Atresia: A Review of Current Literature Eur J Pediatr Surg 30,239-250. DOI: 10.1055/s-0040-1710389

Dingemann, C., Brendel, J., Wenskus, J., Pirr, S., Schukfeh, N., Ure, B., Reinshagen, K. (2020).Low gestational age is associated with less anastomotic complications after open primary repair of esophageal atresia with tracheoesophageal fistula. BMC Pediatr 20,267. DOI: 10.1186/s12887-020-02170-1

Dingemann, C., Eaton, S., Aksnes, G., Bagolan, P., Cross, K.M., De Coppi, P., Fruithof, J., Gamba, P., Goldschmidt, I., Gottrand, F., Pirr, S., Rasmussen, L., Sfeir, R., Slater, G., Suominen, J., Svensson, J.F., Thorup, J.M., Tytgat, S.H.A.J., van der Zee, D.C., Wessel, L., Widenmann-Grolig, A., Wijnen, R., Zetterquist, W., Ure, B.M. (2021).ERNICA Consensus Conference on the Management of Patients with Long-Gap Esophageal Atresia: Perioperative, Surgical, and Long-Term Management. Eur J Pediatr Surg 31,214-225. DOI: 10.1055/s-0040-1713932

Dingemann, J., Dellenmark-Blom, M., Quitmann, J.H. (2020).Health-Related Quality of Life in Pediatric Surgical Patients and their Caretakers Eur J Pediatr Surg 30,223-224. DOI: 10.1055/s-0040-1713596

Ebert, A.K., Zwink, N., Reutter, H.M., Jenetzky, E., Stein, R., Hölscher, A.C., Lacher, M., Fortmann, C., Obermayr, F., Fisch, M., Mortazawi, K., Schmiedeke, E., Promm, M., Hirsch, K., Schäfer, F.M., Rosch, W.H. (2020).Treatment Strategies and Outcome of the Exstrophy-Epi-spadias Complex in Germany: Data From the German CURE-Net Front Pediatr 8,174. DOI: 10.3389/fped.2020.00174

Kiblawi, R., Zoeller, C., Zanini, A., Ure, B.M., Dingemann, J., Kuebler, J.F., Schukfeh, N. (2021).Video-Assisted Thoracoscopic or Conventional Thoracic Surgery in Infants and Children: Current Evidence Eur J Pediatr Surg 31,54-64. DOI: 10.1055/s-0040-1716878

Madadi-Sanjani, O., Schukfeh, N., Uecker, M., Eckmann, S., Dingemann, J., Ure, B.M., Petersen, C., Kuebler, J.F. (2021).The Intestinal Flora at Kasai Procedure in Children with Biliary Atresia Appears Not to Affect Postoperative Cholangitis Eur J Pediatr Surg 31,80-85. DOI: 10.1055/s-0040-1715614

Martynov, I., Gosemann, J.H., Hofmann, A.D., Kuebler, J.F., Madadi-Sanjani, O., Ure, B.M., Lacher, M. (2020).Vacuum-assisted closure (VAC) prevents wound dehiscence following posterior sagittal anorectoplasty (PSARP): An exploratory case-control study J Pediatr Surg DOI: 10.1016/j.jpedsurg.2020.07.009

Möhn, N., Bruni, E., Schröder, A., Frömmel, S., Gueler, F., Vieten, G., Prinz, I., Kuebler, J.F., Petersen, C., Klemann, C. (2020).Synthetic retinoid AM80 inhibits IL-17 production of gamma delta T cells and ameliorates biliary atresia in mice. Liver Int 40,3031-3041. DOI: 10.1111/liv.14639

Schukfeh, N., Elyas, A., Viemann, D., Ure, B.M., Froemmel, S., Park, J.K., Kuebler, J.F., Vieten, G. (2021).Phenotypic Switch of Human Peritoneal Macrophages during Childhood Eur J Pediatr Surg 31,86-94. DOI: 10.1055/s-0040-1717088

Takahashi, T., Friedmacher, F., Zimmer, J., Puri, P. (2021).Pbx1, Meis1, and Runx1 Expression Is Decreased in the Diaphragmatic and Pulmonary Mesenchyme of Rats with Nitrofen-Induced Congenital Diaphragmatic Hernia *Eur J Pediatr Surg* 37,120-125. DOI: 10.1055/s-0040-1714736

Uecker, M., Lehmann, U., Braubach, P., Schukfeh, N., Madadi-Sanjani, O., Ure, B.M., Petersen, C., Kuebler, J.F. (2021).Choledochal Cysts Resected during Childhood Show No Mutations of KRAS and BRAF as Early Markers of Malignancy in Cholangiocytes *Eur J Pediatr Surg* 37,20-24. DOI: 10.1055/s-0040-1715610

Uecker, M., Ure, B.M., Dingemann, J. (2021).Ethical Publication Standards in Articles Reporting on Novel Surgical Methods: Analysis of Three Pediatric Surgical Journals *Eur J Pediatr Surg* 37,34-39. DOI: 10.1055/s-0040-1715611

Witt, S., Blömeke, J., Bullinger, M., Dingemann, J., Quitmann, J. (2020).Basic Principles of Health-Related Quality of Life in Parents and Caregivers of Pediatric Surgical Patients with Rare Congenital Malformations-A Scoping Review *Eur J Pediatr Surg* 30,225-231. DOI: 10.1055/s-0040-1710029

Zhang, R., Gehlen, J., Kawalia, A., Melissari, M.T., Dakal, T.C., Menon, A.M., Höfele, J., Riedhammer, K., Waffenschmidt, L., Fabian, J., Breuer, K., Kalanithy, J., Hilger, A.C., Sharma, A., Hölscher, A., Boemers, T.M., Pauly, M., Leutner, A., Fuchs, J., Seitz, G., Ludwikowski, B.M., Gomez, B., Hubertus, J., Heydweiller, A., Kurz, R., Leonhardt, J., Kosch, F., Holland-Cunz, S., Münsterer, O., Ure, B., Schmiedeke, E., Nesper, J., Degenhardt, P., Märzheuser, S., Kleine, K., Schäfer, M., Spychalski, N., Deffaa, O.J., Gosemann, J.H., Lacher, M., Heilmann-Heimbach, S., Zwink, N., Jenetzky, E., Ludwig, M., Grote, P., Schumacher, J., Thiele, H., Reutter, H. (2020).Human exome and mouse embryonic expression data implicate ZFX3, TRPS1, and CHD7 in human esophageal atresia *PLoS One* 15,e0234246. DOI: 10.1371/journal.pone.0234246

Zoeller, C., Kuebler, J.F., Ure, B.M., Brendel, J. (2021).Incidence of complications, organizational problems, and errors: Unexpected events in 1605 patients *J Pediatr Surg* 56,1723-1727. DOI: 10.1016/j.jpedsurg.2020.12.004

Übersichtsarbeiten

Uecker, M., Kuebler, J.F., Ure, B.M., Schukfeh, N. (2020).Minimally Invasive Pediatric Surgery: The Learning Curve *Eur J Pediatr Surg* 30,172-180. DOI: 10.1055/s-0040-1703011

Buchbeiträge, Monografien

Puri, P., Dingemann, J. (2020). Pulmonary Air Leaks. In: *Pediatric Surgery : Vol. 1 General Principles and Newborn Surgery*, Puri P., eds. (Berlin, Heidelberg: Springer)

Habilitationen

Hofmann, A.D. (2020). Strukturelle und molekulare Grundlagen der pulmonalen Hypertonie im Modell der experimentellen kongenitalen Zwerchfellhernie. Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Promotionen

Möhn, N. (2019). Effekte synthetischer Retinoid-Rezeptor-Liganden auf IL-17 produzierende γ T-Zellen in der experimentellen Gallengangatresie Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Wilde, A.B. (2020). Regulation und Pharmakologische Inhibition von CD26 Dipeptidyl Peptidase-4 auf $\alpha\beta$ - und $\gamma\delta$ - T-Zell-Subpopulationen in der Gallengangatresie. Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Plastische, Ästhetische, Hand- und Wiederherstellungschirurgie – 6260

Originalpublikationen

An, Y., Reimers, K., Allmeling, C., Liu, J., Lazaridis, A., Strauss, S., Vogt, P.M. (2020).Large-Volume Vascularized Muscle Grafts Engineered From Groin Adipose Tissue in Perfusion Bioreactor Culture. *J Craniofac Surg* 37,588-593. DOI: 10.1097/SCS.00000000000006257

An, Y., Reimers, K., Nie, F.F., Allmeling, C., Liu, J.L., Lazaridis, A., Strauß, S., Qin, Z.L., Xue, H.Y., Chen, L.J., Li, B., Li, D., Vogt, P.M. (2018).In vitro Flow Perfusion Maintaining Long-term Viability of the Rat Groin Fat Flap: A Novel Model for Research on Large-scale Engineered Tissues. *Chin Med J (Engl)* 137,213-217. DOI: 10.4103/0366-6999.222334

- Baier, C., Ebadi, E., Mett, T.R., Stoll, M., Küther, G., Vogt, P.M., Bange, F.C. (2020).Epidemiologic and Molecular Investigation of a MRSA Outbreak Caused by a Contaminated Bathtub for Carbon Dioxide Hydrotherapy and Review of the Literature. *Can J Infect Dis Med Microbiol* 2020,1613903. DOI: 10.1155/2020/1613903
- Baier, C., Ipaktchi, R., Schwab, F., Smith, A., Liu, X., Ebadi, E., Limbourg, A., Mett, T.R., Bange, F., Vogt, P.M. (2019).Universal decolonization with octenidine: First experiences in a tertiary burn intensive care unit. *Burns Open* 3,8-11. DOI: 10.1016/j.burnso.2018.10.003
- Bingoel, A.S., Krezdorn, N., Jokuszies, A., Dastagir, K., Vogt, P.M., Mett, T.R. (2021).Hot bathtub, cold consequences - Misleading wounds after scald injuries: A retrospective analysis *J Burn Care Res* 42,390-397. DOI: 10.1093/jbcr/iraa157
- Dastagir, K., Vehling, M., Könniker, S., Bingoel, A.S., Kaltenborn, A., Jokuszies, A., Vogt, P.M. (2021).Spread of Hand Infection According to the Site of Entry and Its Impact on Treatment Decisions *Surg Infect (Larchmt)* 22,318-325. DOI: 10.1089/sur.2020.035
- Gamrekelashvili, J., Kapanadze, T., Sablotny, S., Ratiu, C., Dastagir, K., Lochner, M., Karbach, S., Wenzel, P., Sitnow, A., Fleig, S., Sparwasser, T., Kalinke, U., Holzmann, B., Haller, H., Limbourg, F.P. (2020).Notch and TLR signaling coordinate monocyte cell fate and inflammation. *Elife* 9,e57007. DOI: 10.7554/eLife.57007
- Kuhbier, M.A., Könniker, S., Dastagir, K., Alawi, S.A., Vogt, P.M., Kuhbier, J.W. (2020).Tierbissverletzungen durch heimische und wilde Tiere - eine retrospektive Analyse und Erstellung eines prognostischen Scores. *Handchir Mikrochir Plast Chir* 52,96-106. DOI: 10.1055/a-0986-9951
- Liebsch, C., Fliess, M., Kuhbier, J.W., Vogt, P.M., Strauss, S. (2020).Nephila edulis-breeding and care under laboratory conditions. *Dev Genes Evol* 230,203-211. DOI: 10.1007/s00427-020-00649-6
- Luketina, R., Luketina, T.L.H., Antoniou, S.A., Köhler, G., Könniker, S., Manzenreiter, L., Wundsam, H., Koch, O.O., Knauer, M., Emmanuel, K. (2021).Prospective randomized controlled trial on comparison of standard CO2 pressure pneumoperitoneum insufflator versus Air-Seal(R) *Surg Endosc* 35,3670-3678. DOI: 10.1007/s00464-020-07846-4
- März, V., Vogt, P.M. (2020).Skin Healing of Deep Second Degree Burn Injuries in Four Individuals Sustained in a Boat Explosion : Results after Different Approaches. *Eur Burn J* 7,191-195. DOI: 10.3390/ejbc1010003
- Mett, T.R., Pfeiler, P.P., Luketina, R., Bingöl, A.S., Krezdorn, N., Vogt, P.M. (2020).Surgical treatment of gynaecomastia: a standard of care in plastic surgery. *Eur J Plastic Surg* 43,389-398. DOI: 10.1007/s00238-019-01617-8
- Moellhoff, N., Prantl, L., Behr, B., Beier, J.P., Daigeler, A., Dragu, A., Eisenhardt, S.U., Fuchs, P.C., Germann, G., Hirsch, T., Horch, R.E., Infanger, M., Jakubietz, R., Kneser, U., Langer, S., Lehnhardt, M., Machens, H.G., Mailänder, P., Reichert, B., Radtke, C., Schaefer, D.J., Siemers, F., Stark, G.B., Steinau, H.U., Vogt, P.M., Giunta, R.E. (2021).Register Forschungsförderung der Deutschen Gesellschaft der Plastischen, Rekonstruktiven und Ästhetischen Chirurgen (DGPRÄC) und Forschungsförderungsbericht 2019/2020 *Handchir Mikrochir Plast Chir* 53,110-118. DOI: 10.1055/a-1267-0388
- Paprottka, F.J., Klimas, D., Krezdorn, N., Schlarb, D., Trevatt, A.E.J., Hebebrand, D. (2020).Cook-Swartz Doppler Probe Surveillance for Free Flaps-Defining Pros and Cons *Surg J (N Y)* 6,e42-e46. DOI: 10.1055/s-0040-1702922
- Peck, C., Strauß, S., Stahl, G.L., Vogt, P.M., Busche, M.N. (2020).Mannose-binding lectin (MBL) and the lectin complement pathway play a role in cutaneous ischemia and reperfusion injury. *Innovative Surgical Sciences* 5,43-51. DOI: 10.1515/iss-2020-0017
- Pfeiler, P.P., Luketina, R., Dastagir, K., Vogt, P.M., Mett, T.R., Kaltenborn, A., Könniker, S. (2021).Expected Reduction of The Nipple-Areolar Complex Over Time After Treatment of Gynecomastia with Ultrasound-Assisted Liposuction Mastectomy Compared to Subcutaneous Mastectomy Alone *Aesthetic Plast Surg* 45,431-437. DOI: 10.1007/s00266-020-02029-x
- Stögner, V.A., Kaltenborn, A., Laser, H., Vogt, P.M. (2020).Hand injuries in sports - a retrospective analysis of 364 cases *BMC Musculoskelet Disord* 21,826. DOI: 10.1186/s12891-020-03807-z
- van Bömmel, L., Könniker, S., Sonnow, L., Krezdorn, N., Schmiedl, A., Vogt, P.M. (2020).Bone Tunnel Orientation in Suspension Arthroplasty of the Thumb Carpometacarpal Joint: An Anatomical Cadaver Study *Hand (N Y)* DOI: 10.1177/1558944719897137
- Werner, D., Alawi, S.A. (2021).Hand Bionic Score: a clinical follow-up study of severe hand injuries and development of a recommendation score to supply bionic prosthesis. *Eur J Plast Surg* 44,81-96. DOI: 10.1007/s00238-020-01679-z
- Winkel, A., Jaimes, Y., Melzer, C., Dillschneider, P., Hartwig, H., Stiesch, M., von der Ohe, J., Strauss, S., Vogt, P.M., Hamm, A., Burmeister, L., Roger, Y., Elger, K., Floerkemeier, T., Weissinger, E.M., Pogozhykh, O., Müller, T., Selich, A., Rothe, M., Petri, S., Köhl, U., Hass, R.,

Hoffmann, A. (2020). Cell culture media notably influence properties of human mesenchymal stroma/stem-like cells from different tissues. *Cytotherapy* 22,653-668. DOI: 10.1016/j.jcyt.2020.07.005

Übersichtsarbeiten

Kaltenborn, A., Krezdorn, N., Hoffmann, S., Gutcke, A., Haastert-Talini, K., Vogt, P.M., Haverich, A., Wiegmann, B. (2020). Ex vivo limb perfusion for traumatic amputation in military medicine. *Mil Med Res* 7,21. DOI: 10.1186/s40779-020-00250-y

Kornfeld, T., Vogt, P.M., Radtke, C. (2019). Nerventransplantate für periphere Nervenverletzungen ausgedehnter Defektgrößen. *Wien Med Wochenschr* 169,240-251. DOI: 10.1007/s10354-018-0675-6

Case reports

Alawi, S.A., Ipaktchi, R., Suchodolski, K., Jokuszies, A. (2020). Therapieversagen nach postinfektiösen Purpura fulminans trotz interdisziplinärer chirurgisch-intensivmedizinischer Therapie. *Med Klin Intensivmed Notfmed* 115,253-259. DOI: 10.1007/s00063-020-00662-7

Vogt, P.M., Mett, T.R., Bingoel, A.S., Jokuszies, A., Krezdorn, N. (2021). Reconstruction of Basic Hand Function by a Free Osteocutaneous Spare-Part Flap From the Lower Leg After Septicemia: A Case Report. *Hand (N Y)* 16, NP5-NP9. DOI: 10.1177/1558944720906499

Comments

Stögner, V.A., Krezdorn, N., Vogt, P.M. (2021). Comment on: "Thumb carpometacarpal joint osteoarthritis: Is there a role for denervation? A systematic review". *J Plast Reconstr Aesthet Surg* 74,1101-1160. DOI: 10.1016/j.bjps.2020.11.016

Buchbeiträge, Monografien

Heckmann, A., Vogt, P.M. (2020). Burn Reconstruction: Eye Region. In: *Handbook of Burns Volume 2: Reconstruction and Rehabilitation*, Kamolz L., eds. (Cham: Springer International Publishing) pp. 209-216

Krezdorn, N., Ipaktchi, R., Vogt, P.M. (2020). Posterior Trunk Reconstruction. In: *Non-Melanoma Skin Cancer and Cutaneous Melanoma: Surgical Treatment and Reconstruction*, Papadopoulos O., eds. (Cham: Springer International Publishing) pp. 547-557

sonstiges

An, Y., Reimers, K., Allmeling, C., Liu, J.L., Lazaridis, A., Strauß, S., Nie, F.F., Qin, Z.L., Vogt, P.M. (2020). Corrigendum: In vitro Flow Perfusion Maintaining Long-term Viability of the Rat Groin Fat Flap: A Novel Model for Research on Large-scale Engineered Tissues. *Chin Med J (Engl)* 133,2016. DOI: 10.1097/CM9.0000000000000969

Bingoel, A.S., Krezdorn, N., Vogt, P.M. (2020). Standards in der Verbrennungsmedizin. *Chirurg* 91,361-376. DOI: 10.1007/s00104-020-01154-2

Habilitationen

Weyand, B. (2020). Tissue Engineering von dreidimensionalen Knochenkonstrukten: Kontrolle von Sauerstoffkonzentration und Strömung im Bioreaktor. Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Promotionen

Geishauser, L. (2020). "Microsurgery Interactive Video Learning Modules" - Validierung eines videobasierten Lehrmittels für die Mikrochirurgie. Dissertation, Medizinische Hochschule Hannover, 2020

Hager, S.J. (2020). Fibrozyten unter Hypoxie und Kaltplasmabehandlung in Hinblick auf Expression des Zytokins MIF. Dissertation, Medizinische Hochschule Hannover, 2020

Kornfeld, T. (2020). Enhanced peripheral nerve regeneration by spider silk nerve implant: an in vitro and in vivo examination. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Mohamad, L. (2020). Endotheliale Dysfunktion bei Kindern und Jugendlichen mit chronischer Niereninsuffizienz. Dissertation, Medizinische Hochschule Hannover, 2020

Schlottmann, F. (2019). Herstellung eines allogenen immunsuppressiven Hautersatzes - eine in vitro Studie. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Springhetti, S. (2020). Untersuchung der Telomerbiologie während der Gliedmaßenregeneration des Axolotls. Dissertation, Medizinische Hochschule Hannover, 2020

Wünsche, G.H. (2018). Bedeutung chronischer Entzündungsprozesse und Komorbiditäten auf das Outcome freier mikrovaskulärer Lappenplastiken in der Extremitätenrekonstruktion eine retrospektive Analyse. Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Orthopädie (Annastift) – 6270

Originalpublikationen

Ahrend, M.D., Aurich, M., Becher, C., Ateschrang, A., Schröter, S., Walther, M., Gottschalk, O., Plaass, C., Ettinger, S., Zinser, W., Körner, D. (2020). Preexisting and treated concomitant ankle instability does not compromise patient-reported outcomes of solitary osteochondral lesions of the talus treated with matrix-induced bone marrow stimulation in the first postoperative year: data from the German Cartilage Registry (KnorpelRegister DGOU) *Knee Surg Sports Traumatol Arthrosc* DOI: 10.1007/s00167-020-06172-5

Budde, S., Schwarze, M., Floerkemeier, T., Plagge, J., Wirries, N., Windhagen, H., Thorey, F., Derksen, A. (2020). Clinical and radiographic outcomes with the Nanos short-stem hip implant at 24 months: A prospective, single-center study *J Orthop* 20,326-331. DOI: 10.1016/j.jor.2020.06.007

Clausen, J.D., Nahen, N., Horstmann, H., Lasch, F., Krutsch, W., Krettek, C., Weber-Spickschen, T.S. (2020). Improving Maximal Strength in the Initial Postoperative Phase After Anterior Cruciate Ligament Reconstruction Surgery: Randomized Controlled Trial of an App-Based Serious Gaming Approach *JMIR Serious Games* 8,e14282. DOI: 10.2196/14282

Dey Hazra, R., Blach, R., Ellwein, A., Lill, H., Jensen, G. (2020). 3-Year results of arthroscopic management of lateral clavicle fractures. *Obere Extremität* 15,111-117. DOI: 10.1007/s11678-020-00565-1

Dey Hazra, R.O., Lill, H., Ellwein, A., Warnhoff, M., Jensen, G. (2020). Korrekturmöglichkeiten bei fehlgeschlagener Osteosynthese - proximaler Humerus *Z Orthop Unfall* 158,524-531. DOI: 10.1055/a-0974-3887

Dilger, N., Neehus, A.L., Grieger, K., Hoffmann, A., Menssen, M., Ngezahayo, A. (2020). Gap Junction Dependent Cell Communication Is Modulated During Transdifferentiation of Mesenchymal Stem/Stromal Cells Towards Neuron-Like Cells *Front Cell Dev Biol* 8,869. DOI: 10.3389/fcell.2020.00869

Ellwein, A., Becker, S., Nebel, D., Horstmann, H., Smith, T., Lill, H., Pastor, M.F. (2021). Biomechanical comparison of lateral collateral ligament reconstruction with and without additional internal bracing using a three-dimensional elbow simulator *Clin Biomech (Bristol, Avon)* 87,105236. DOI: 10.1016/j.clinbiomech.2020.105236

Ellwein, A., Füssler, L., Ferle, M., Smith, T., Lill, H., Pastor, M.F. (2021). Suture tape augmentation of the lateral ulnar collateral ligament increases load to failure in simulated posterolateral rotatory instability *Knee Surg Sports Traumatol Arthrosc* 29,284-291. DOI: 10.1007/s00167-020-05918-5

Ellwein, A., Jaeger, M., Voigt, C., Katthagen, J.C., Schoepp, C., Frosch, K., Lill, H., Jensen, G. (2020). Arthroscopically assisted stabilization versus hook plate fixation for chronic acromioclavicular joint separation. *Obere Extremität* 15,103-110. DOI: 10.1007/s11678-020-00574-0

Ellwein, A., Lill, H., Warnhoff, M., Hackl, M., Wegmann, K., Müller, L.P., Gramlich, Y., Hoffmann, R., Klug, A. (2020). Can low-profile double-plate osteosynthesis for olecranon fractures reduce implant removal? A retrospective multicenter study *J Shoulder Elbow Surg* 29,1275-1281. DOI: 10.1016/j.jse.2020.01.091

Ettinger, S., Gottschalk, O., Kostretz, L., Plaas, C., Körner, D., Walther, M., Becher, C. (2020). One-year follow-up data from the German Cartilage Registry (KnorpelRegister DGOU) in the treatment of chondral and osteochondral defects of the talus *Arch Orthop Trauma Surg* DOI: 10.1007/s00402-020-03631-z

Floerkemeier, T., Arokiasamy, R., Budde, S., Hurschler, C., Windhagen, H., von Lewinski, G., Gronewold, J. (2021). Is the strain pattern of conventional stems negatively affected by a previously short stem THA? An experimental study in cadaveric bone *Technol Health Care* 29,323-331. DOI: 10.3233/THC-191940

Floerkemeier, T., Budde, S., Lewinski, G.V., Windhagen, H., Hurschler, C., Schwarze, M. (2020). Greater early migration of a short-stem total hip arthroplasty is not associated with an increased risk of osseointegration failure: 5th-year results from a prospective RSA study with 39 patients, a follow-up study *Acta Orthop* 91,266-271. DOI: 10.1080/17453674.2020.1732749

Friese, N., Gierschner, M.B., Schadzek, P., Roger, Y., Hoffmann, A. (2020). Regeneration of Damaged Tendon-Bone Junctions (Entheses)-TAK1 as a Potential Node Factor *Int J Mol Sci* 21,5177. DOI: 10.3390/ijms21155177

- Gniesmer, S., Brehm, R., Hoffmann, A., de Cassan, D., Menzel, H., Hoheisel, A.L., Glasmacher, B., Willbold, E., Reifenrath, J., Ludwig, N., Zimmerer, R., Tavassol, F., Gellrich, N.C., Kampmann, A. (2020). Vascularization and biocompatibility of poly(epsilon-caprolactone) fiber mats for rotator cuff tear repair *PLoS One* *15*,e0227563. DOI: 10.1371/journal.pone.0227563
- Gottschalk, O., Baumbach, S.F., Altenberger, S., Körner, D., Aurich, M., Plaass, C., Ettinger, S., Guenther, D., Becher, C., Hörterer, H., Walther, M. (2020). Influence of the Medial Malleolus Osteotomy on the Clinical Outcome of M-BMS + I/III Collagen Scaffold in Medial Talar Osteochondral Lesion (German Cartilage Register/Knorpelregister DGOU) *Cartilage* DOI: 10.1177/1947603520961169
- Grupp, T.M., Baxmann, M., Jansson, V., Windhagen, H., Heller, K.D., Morlock, M.M., Knaebel, H.P. (2020). How to proceed with asymptomatic modular dual taper hip stems in the case of acetabular revision *Materials (Basel)* *13*,1098. DOI: 10.3390/ma13051098
- Hanke, A.A., Bartlau, J., Flöricke, F., Przemec, M., Horstmann, H., Weber-Spickschen, T.S., Sieg, L., Schumacher, C. (2020). Coagulation monitoring and transfusion in major non-emergency orthopaedic surgery - An observational study *J Orthop* *22*,22-28. DOI: 10.1016/j.jor.2020.03.032
- Harb, A., Welke, B., Lioudakis, E., Razaiean, S., Zhang, D., Krettek, C., Hurschler, C., Hawi, N. (2020). Biomechanical Assessment of Three Osteosynthesis Constructs by Periprosthetic Humerus Fractures *Adv Orthop* *2020*,DOI: 10.1155/2020/8872419
- Hoburg, A., Niemeyer, P., Laute, V., Zinser, W., Becher, C., Kolombe, T., Fay, J., Pietsch, S., Kuzma, T., Widuchowski, W., Fickert, S. (2020). Matrix-Associated Autologous Chondrocyte Implantation with Spheroid Technology Is Superior to Arthroscopic Microfracture at 36 Months Regarding Activities of Daily Living and Sporting Activities after Treatment *Cartilage* DOI: 10.1177/1947603519897290
- Horstmann, H., Medico, P., Lasch, F., Krutsch, W., Weber-Spickschen, T.S. (2020). Simplified Measurement of Maximum Strength After Knee Surgery: Application-Based Knee-Training Device Compared to Isokinetic Testing *Open Access J Sports Med* *11*,43-49. DOI: 10.2147/OAJSM.S214598
- Janssen, H.C., Angrisani, N., Kalies, S., Hansmann, F., Kietzmann, M., Warwas, D.P., Behrens, P., Reifenrath, J. (2020). Biodistribution, biocompatibility and targeted accumulation of magnetic nanoporous silica nanoparticles as drug carrier in orthopedics *J Nanobiotechnology* *18*,14. DOI: 10.1186/s12951-020-0578-8
- Jensen, G., Dey Hazra, R., Hanhoff, M., Lill, H., Ellwein, A. (2020). Arthroskopisch assistierte Versorgung der akuten Instabilität des Akromioklavikulargelenks. *Obere Extremität* *15*,77-85. DOI: 10.1007/s11678-020-00567-z
- Keller, M.C., Hurschler, C., Schwarze, M. (2021). Experimental evaluation of precision and accuracy of RSA in the lumbar spine *Eur Spine J* *30*,2060-2068. DOI: 10.1007/s00586-020-06672-5
- Klungsoyr, J.A., Vagstad, T., Ferle, M., Drogset, J.O., Hoff, S.R., Dalen, A.F., Hurschler, C., von Falck, C., Klungsoyr, P. (2021). The novel arthroscopic subscapular quadriceps tendon-bone sling procedure provides increased stability in shoulder cadavers with severe glenoid bone loss *Knee Surg Sports Traumatol Arthrosc* *29*,170-180. DOI: 10.1007/s00167-020-05900-1
- Körner, D., Ateschrang, A., Schröter, S., Aurich, M., Becher, C., Walther, M., Gottschalk, O., Bangert, Y., Ettinger, S., Plaass, C., Ahrend, M.D. (2020). Concomitant ankle instability has a negative impact on the quality of life in patients with osteochondral lesions of the talus: data from the German Cartilage Registry (KnorpelRegister DGOU) *Knee Surg Sports Traumatol Arthrosc* *28*,3339-3346. DOI: 10.1007/s00167-020-05954-1
- Lavrentieva, A., Hoffmann, A., Lee-Thedieck, C. (2020). Limited Potential or Unfavorable Manipulations? Strategies Toward Efficient Mesenchymal Stem/Stromal Cell Applications *Front Cell Dev Biol* *8*,316. DOI: 10.3389/fcell.2020.00316
- Maier, D., Tuecking, L.R., Bernstein, A., Lang, G., Wagner, F.C., Jaeger, M., Ogon, P., Südkamp, N.P., Izadpanah, K. (2020). The acromioclavicular ligament shows an early and dynamic healing response following acute traumatic rupture *BMC Musculoskelet Disord* *21*,593. DOI: 10.1186/s12891-020-03614-6
- Oikonomidis, S., Heck, V., Bantle, S., Scheyerer, M.J., Hofstetter, C., Budde, S., Eysel, P., Bredow, J. (2020). Impact of lordotic cages in the restoration of spinopelvic parameters after dorsal lumbar interbody fusion: a retrospective case control study *Int Orthop* *44*,2665-2672. DOI: 10.1007/s00264-020-04719-2
- Örgel, M., Lioudakis, E., Jaratjitwilai, P., Harb, A., Wirries, N., Omar, M., Krettek, C., Aschoff, H.H. (2020). Three-year follow-up of changes of cortical bone thickness after implantation of Endo-Exo-Prosthesis (EEP) for transfemoral amputees *J Orthop Surg Res* *15*,164. DOI: 10.1186/s13018-020-01675-w

- Pastor, M.F., Smith, T., Ellwein, A., Hagenah, J., Hurschler, C., Ferle, M. (2020).Anatomic factors influencing the anterior stability of reverse total shoulder arthroplasty *J Shoulder Elbow Surg* *29*,2619-2625. DOI: 10.1016/j.jse.2020.03.045
- Plaass, C., Karch, A., Koch, A., Wiederhoeft, V., Ettinger, S., Claassen, L., Daniilidis, K., Yao, D., Stukenborg-Colsman, C. (2020).Short term results of dynamic splinting for hallux valgus - A prospective randomized study *Foot Ankle Surg* *26*,146-150. DOI: 10.1016/j.fas.2019.01.002
- Radtke, K., Goede, F., Schweidtmann, K., Schwamberger, T., Calliess, T., Fregien, B., Stukenborg-Colsman, C., Ettinger, M. (2020).Temporary hemiepiphysiodesis for correcting idiopathic and pathologic deformities of the knee: A retrospective analysis of 355 cases *Knee* *27*,723-730. DOI: 10.1016/j.knee.2020.04.024
- Rahim, M.I., Winkel, A., Lienenklaus, S., Stumpp, N.S., Szafranski, S.P., Kommerein, N., Willbold, E., Reifenrath, J., Mueller, P.P., Eisenburger, M., Stiesch, M. (2020).Non-Invasive Luciferase Imaging of Type I Interferon Induction in a Transgenic Mouse Model of Biomaterial Associated Bacterial Infections: Microbial Specificity and Inter-Bacterial Species Interactions *Microorganisms* *8*,1624. DOI: 10.3390/microorganisms8101624
- Reifenrath, J., Janssen, H.C., Warwas, D.P., Kietzmann, M., Behrens, P., Willbold, E., Fedchenko, M., Angrisani, N. (2020).Implant-based direction of magnetic nanoporous silica nanoparticles - influence of macrophage depletion and infection *Nanomedicine* *30*,102289. DOI: 10.1016/j.nano.2020.102289
- Reifenrath, J., Wellmann, M., Kempfert, M., Angrisani, N., Welke, B., Gniesmer, S., Kampmann, A., Menzel, H., Willbold, E. (2020).TGF-beta3 Loaded Electrospun Polycaprolactone Fibre Scaffolds for Rotator Cuff Tear Repair: An in Vivo Study in Rats *Int J Mol Sci* *21*,1046. DOI: 10.3390/ijms21031046
- Reiner, T., Sonntag, R., Kretzer, J.P., Clarius, M., Jakubowitz, E., Weiss, S., Ewerbeck, V., Merle, C., Moradi, B., Kinkel, S., Gotterbarm, T., Hagemann, S. (2020).The Migration Pattern of a Cementless Hydroxyapatite-Coated Titanium Stem under Immediate Full Weight-Bearing-A Randomized Controlled Trial Using Model-Based RSA *J Clin Med* *9*,2077. DOI: 10.3390/jcm907207
- Ries, C., Boese, C.K., Stürznickel, J., Koehne, T., Hubert, J., Pastor, M.F., Hahn, M., Meier, S.L., Beil, F.T., Püschel, K., Amling, M., Rolvien, T. (2020).Age-related changes of micro-morphological subchondral bone properties in the healthy femoral head *Osteoarthritis Cartilage* *28*,1437-1447. DOI: 10.1016/j.joca.2020.08.001
- Roger, Y., Burmeister, L., Hamm, A., Elger, K., Dittrich-Breiholz, O., Flörkemeier, T., Hoffmann, A. (2020).Heparin Anticoagulant for Human Bone Marrow Does Not Influence In Vitro Performance of Human Mesenchymal Stromal Cells *Cells* *9*,1580. DOI: 10.3390/cells9071580
- Roger, Y., Sydow, S., Burmeister, L., Menzel, H., Hoffmann, A. (2020).Sustained release of TGF-beta3 from polysaccharide nanoparticles induces chondrogenic differentiation of human mesenchymal stromal cells *Colloids Surf B Biointerfaces* *189*. DOI: 10.1016/j.colsurfb.2020.110843
- Savov, P., Budde, S., Tsamassiotis, S., Windhagen, H., Klintschar, M., Ettinger, M. (2020).Three-dimensional templating in hip arthroplasty: the basis for template-directed instrumentation? *Arch Orthop Trauma Surg* *140*,827-833. DOI: 10.1007/s00402-020-03394-7
- Savov, P., Mielke, E., Windhagen, H., Calliess, T., Richter, A., Ettinger, M. (2021).Higher revision rate for posterior cruciate-retaining than posterior-stabilized total knee arthroplasty for the treatment of valgus osteoarthritis *Arch Orthop Trauma Surg* *141*,305-312. DOI: 10.1007/s00402-020-03618-w
- Schnetzke, M., Ellwein, A., Maier, D., Wagner, F.C., Grützner, P.A., Guehring, T. (2021).Injury patterns following simple elbow dislocation: radiological analysis implies existence of a pure valgus dislocation mechanism *Arch Orthop Trauma Surg* *141*,1649-1657. DOI: 10.1007/s00402-020-03541-0
- Schröder, M.L., Angrisani, N., Fadeeva, E., Hegermann, J., Reifenrath, J. (2020).Laser-structured spike surface shows great bone integrative properties despite infection in vivo *Mater Sci Eng C Mater Biol Appl* *109*,110573. DOI: 10.1016/j.msec.2019.110573
- Schwieger, J., Hamm, A., Gepp, M.M., Schulz, A., Hoffmann, A., Lenarz, T., Scheper, V. (2020).Alginate-encapsulated brain-derived neurotrophic factor-overexpressing mesenchymal stem cells are a promising drug delivery system for protection of auditory neurons *J Tissue Eng* *11*,2041731420911313. DOI: 10.1177/2041731420911313
- Seehaus, F., Sonntag, R., Schwarze, M., Jakubowitz, E., Sesselmann, S., Kretzer, J.P., Hurschler, C. (2020).Früherkennung des Risikos der späteren Implantatlockerung mittels der Röntgen Stereophotogrammetrischen Analyse (RSA) *Orthopäde* *49*,1042-1048. DOI: 10.1007/s00132-020-04027-y

Sundermann, J., Oehmichen, S., Sydow, S., Burmeister, L., Quaas, B., Hänsch, R., Rinas, U., Hoffmann, A., Menzel, H., Bunjes, H. (2021). Varying the sustained release of BMP-2 from chitosan nanogel-functionalized polycaprolactone fiber mats by different polycaprolactone surface modifications *J Biomed Mater Res A* 109,600-614. DOI: 10.1002/jbm.a.37045

Tuecking, L.R., Savov, P., Richter, T., Windhagen, H., Ettinger, M. (2020). Clinical validation and accuracy testing of a radiographic decision aid for unicondylar knee arthroplasty patient selection in midterm follow-up *Knee Surg Sports Traumatol Arthrosc* 28,2082-2090. DOI: 10.1007/s00167-020-05912-x

Venjakob, E., Yao, D., Ettinger, S., Claassen, L., Schwarze, M., Plaass, C., Stukenborg-Colsman, C., Lerch, M. (2021). Feasibility and reliability of DEXA analysis after total ankle arthroplasty: A cadaver study *Foot Ankle Surg* 27,110-115. DOI: 10.1016/j.fas.2020.03.001

Weber, C., Yao, D., Schwarze, M., Andersson, K., Andric, V., Kinkelin, M., Claassen, L., Stukenborg-Colsman, C., Waizy, H. (2021). Risk Analysis of Nonunion After First Metatarsophalangeal Joint Arthrodesis *Foot Ankle Spec* 74,120-125. DOI: 10.1177/1938640019899829

Winkel, A., Jaimes, Y., Melzer, C., Dillschneider, P., Hartwig, H., Stiesch, M., von der Ohe, J., Strauss, S., Vogt, P.M., Hamm, A., Burmeister, L., Roger, Y., Elger, K., Floerkemeier, T., Weissinger, E.M., Pogozykh, O., Müller, T., Selich, A., Rothe, M., Petri, S., Köhl, U., Hass, R., Hoffmann, A. (2020). Cell culture media notably influence properties of human mesenchymal stroma/stem-like cells from different tissues. *Cytherapy* 22,653-668. DOI: 10.1016/j.jcyt.2020.07.005

Wirries, N., Ezechieli, M., Floerkemeier, T., Windhagen, H., Skutek, M. (2020). Proceeding from direct lateral to anterolateral approach in total hip arthroplasty: A closer look on radiological and clinical aspects *J Orthop* 27,10-13. DOI: 10.1016/j.jor.2020.01.039

Wirries, N., Ezechieli, M., Stimpel, K., Skutek, M. (2020). Impact of continuous passive motion on rehabilitation following total knee arthroplasty *Physiother Res Int* 25,e1869. DOI: 10.1002/pri.1869

Wirries, N., Schwarze, M., Daentzer, D., Skutek, M. (2020). Total hip arthroplasty and lumbar spine disorders: Plain co-existence or mutual influence? *Orthop Rev (Pavia)* 72,8546. DOI: 10.4081/or.2020.8546

Wirries, N., Skutek, M., Örgel, M., Budde, S., Derksen, A., Windhagen, H., Flörkemeier, T. (2020). Allogenic bone graft for femoral defect augmentation in hip revision arthroplasty: A case series *Orthop Rev (Pavia)* 72,8173. DOI: 10.4081/or.2020.8173

Yao, D., Bruns, F., Ettinger, S., Daniilidis, K., Plaass, C., Stukenborg-Colsman, C., Claassen, L. (2020). Manipulation under anesthesia as a therapy option for postoperative knee stiffness: a retrospective matched-pair analysis *Arch Orthop Trauma Surg* 140,785-791. DOI: 10.1007/s00402-020-03381-y

Abstracts

Yao, D. (2020). Return to Sport nach OSG-Distorsion - Aktuelle Konzepte der Orthesenversorgung nach Bandläsion des Sprunggelenks. 68. Jahrestagung der Vereinigung Süddeutscher Orthopäden und Unfallchirurgen e.V. (VSOU), 30. April – 2. Mai 2020, Baden-Baden.

Habilitationen

Ettinger, S. (2020). Sequentielle in vivo und in vitro Ergebnisse zur Prävention und Therapie der Arthrose am Sprunggelenk. Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Plaaß, C. (2020). Hallux vulgus - ganzheitliche Behandlung einer häufigen Entität. Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Promotionen

Altemeier, A.K. (2020). Klinisches und funktionelles Outcome nach Tarsometatarsalgelenk-Arthrodese Dissertation, Medizinische Hochschule Hannover, 2020

Bäunker, A. (2019). Biomechanische Untersuchung des inferioren Scapula Notching (Anschlagphänomen) nach Implantation einer inversen Schulterprothese in Abhängigkeit von Implantationskonfiguration und Scapulahals-Anatomie. Dissertation, Medizinische Hochschule Hannover, 2020

Fumy, M.M. (2020). Anatomische Variationen der Insertion der langen Fußmuskulatur am Fuß. Dissertation, Medizinische Hochschule Hannover, 2020

Groth, C. (2019). Langzeitergebnisse nach posteriorer mehrsegmentaler Osteosynthese mit einem etablierten pedikelschraubengestützten dynamischen Stabilisierungsverfahren im Lumbalbereich. Dissertation, Medizinische Hochschule Hannover, 2020

- Haasper, J. (2017). Einfluss unterschiedlicher Zugänge bei Implantation einer Hüft-Totalendoprothese auf die Beckenkipfung - eine prospektiv randomisierte Ganganalyse Dissertation, Medizinische Hochschule Hannover, 2020
- Karkosch, R.F. (2018). Die Rekonstruktion des vorderen Kreuzbands mittels Quadrizepssehne: ein biomechanischer Vergleich zweier Fixationsmethoden in der Tibia. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020
- Kieckbusch, M.N. (2020). Klinische und radiologische Ergebnisse der Versorgung von Frakturfolgen des proximalen Humerus mit inverser Schulterprothese Dissertation, Medizinische Hochschule Hannover, 2020
- Kim, H. (2019). Retrospective study regarding the significance of morphological factors for the incidence of postoperative complications in patients undergoing total hip arthroplasty. Dissertation, Medizinische Hochschule Hannover, 2020
- Klampke, P. (2019). Analyse radiologischer Parameter des kindlichen Hüftgelenks im Verlauf bei Epiphyseolysis capitis femoris. Dissertation, Medizinische Hochschule Hannover, 2020
- Kluge, M.J. (2018). Gekoppelte tripolare Pfannensysteme in der Hüftrevisionsendoprothetik: Überlebensrate und Versagensursachen Dissertation, Medizinische Hochschule Hannover, 2020
- Lüske, J. (2018). Periprothetische radiologische Veränderungen an der distalen Tibia im Zeitverlauf nach endoprothetischer Versorgung des oberen Sprunggelenkes. Dissertation, Medizinische Hochschule Hannover, 2020
- Sievers, L. (2019). Ein präoperativ erhöhter CRP-Wert bedeutet ein erhöhtes Risiko für eine postoperative Infektion nach Knie-Totalendoprothesen-Implantation. Dissertation, Medizinische Hochschule Hannover, 2020
- Theodorou, A. (2020). Der Einfluss des chirurgischen Zugangsweges zum Hüftgelenk auf die Knochendichte des Implantatlagers bei Verwendung der Metha®-Kurzschafthüftprothese im mittelfristigen Verlauf Dissertation, Medizinische Hochschule Hannover, 2020
- Tonin, K. (2020). Dynamometrische und ganganalytische Untersuchung der Hüftgelenksfunktion bei Patienten mit einliegender Metha®-Kurzschafthüftprothese und kontralateraler Bicontact®-Standardschafthüftprothese Dissertation, Medizinische Hochschule Hannover, 2020
- Tsamassiotis, S. (2020). Zur Rekonstruktion des anterioren femoralen Offsets und weiterer biomechanischer Parameter in der Hüftendoprothetik : eine Kadaverstudie. Dissertation, Medizinische Hochschule Hannover, 2020
- Weltin, J.S. (2020). Vergleich des Dehnungsmusters im proximalen Femur nach Implantation der METHA® Kurzschafthüftprothese und der Bicontact® Geradschafthüftprothese. Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Unfallchirurgie – 6230

Originalpublikationen

- Clausen, J.D., Nahen, N., Horstmann, H., Lasch, F., Krutsch, W., Krettek, C., Weber-Spickschen, T.S. (2020). Improving Maximal Strength in the Initial Postoperative Phase After Anterior Cruciate Ligament Reconstruction Surgery: Randomized Controlled Trial of an App-Based Serious Gaming Approach JMIR Serious Games 8,e14282. DOI: 10.2196/14282
- Gräff, P., Alanazi, S., Alazzawi, S., Weber-Spickschen, S., Krettek, C., Dratzidis, A., Fleischer-Lueck, B., Hawi, N., Lioudakis, E. (2020). Screw fixation for syndesmotic injury is stronger and provides more contact area of the joint surface than TightRope®: A biomechanical study. Technol Health Care 28,533-539. DOI: 10.3233/THC-191638
- Graulich, T., Gerhardy, J., Gräff, P., Örgel, M., Omar Pacha, T., Krettek, C., Macke, C., Lioudakis, E. (2020). Patientenaufkommen, Diagnosen und Verletzungsmechanismen eines überregionalen Traumazentrums mit Beginn der COVID-19-Pandemie im Vergleich zum Mittelwert der 3 Vorjahre : Eine retrospektive, epidemiologische Auswertung von 4967 Patienten. Unfallchirurg 123,862-869. DOI: 10.1007/s00113-020-00894-4
- Graulich, T., Gerhardy, J., Örgel, M., Omar-Pacha, T., Omar, M., Krettek, C., Guenther, D. (2020). Fluoroscopic Intraoperative Images Produce Higher Image Quality and Decrease Total Radiation Exposure Compared to Radiographic X-ray Images in Patients After Primary Total Knee Arthroplasty. In Vivo 34,2521-2526. DOI: 10.21873/invivo.12069

- Graulich, T., Graeff, P., Jaiman, A., Nicolaidis, S., Omar Pacha, T., Örgel, M., Macke, C., Omar, M., Krettek, C., Liidakis, E. (2020). Risk factors for dislocation after bipolar hemiarthroplasty: a retrospective case-control study of patients with CT data. *Eur J Orthop Surg Traumatol* DOI: 10.1007/s00590-020-02819-8
- Graulich, T., Graeff, P., Nicolaidis, S., Haertle, M., Omar, M., Krettek, C., Liidakis, E. (2020). Acetabular posterior wall morphology. A CT-based method to distinguish two acetabular posterior wall types. *J Orthop* 20,160-166. DOI: 10.1016/j.jor.2020.01.027
- Graulich, T., Kranz, C., Zhang, D., Oergel, M., Pacha, T.O., Haertle, M., Omar, M., Krettek, C., Panzica, M. (2020). Reduction of Patella-baja and Pseudo-patella-baja Does Not Improve Range of Motion in Patients After Mega-TKA. *In Vivo* 34,1153-1158. DOI: 10.21873/invivo.11887
- Harb, A., Welke, B., Liidakis, E., Razaieian, S., Zhang, D., Krettek, C., Hurschler, C., Hawi, N. (2020). Biomechanical Assessment of Three Osteosynthesis Constructs by Periprosthetic Humerus Fractures *Adv Orthop* 2020, DOI: 10.1155/2020/8872419
- Hensel, N., Brickwedde, H., Tsaknakis, K., Grages, A., Braunschweig, L., Lüders, K.A., Lorenz, H.M., Lippross, S., Walter, L.M., Tavassol, F., Lienenklaus, S., Neunaber, C., Claus, P., Hell, A.K. (2020). Altered bone development with impaired cartilage formation precedes neuro-muscular symptoms in spinal muscular atrophy *Hum Mol Genet* 29,2662-2673. DOI: 10.1093/hmg/ddaa145
- Macke, C., Gralla, F., Winkelmann, M., Clausen, J.D., Haertle, M., Krettek, C., Omar, M. (2020). Increased First Pass Success with C-MAC Videolaryngoscopy in Prehospital Endotracheal Intubation-A Randomized Controlled Trial. *J Clin Med* 9,2719. doi: 10.3390/jcm9092719. DOI: 10.3390/jcm9092719
- Omar Pacha, T., Omar, M., Graulich, T., Suero, E., Mathis Schröder, B., Krettek, C., Stubig, T. (2020). Comparison of Preoperative Pedicle Screw Measurement Between Computed Tomography and Magnet Resonance Imaging. *Int J Spine Surg* 14,671-680. DOI: 10.14444/7098
- Örgel, M., Liidakis, E., Jaratjitwilai, P., Harb, A., Wirries, N., Omar, M., Krettek, C., Aschoff, H.H. (2020). Three-year follow-up of changes of cortical bone thickness after implantation of Endo-Exo-Prosthesis (EEP) for transfemoral amputees *J Orthop Surg Res* 15,164. DOI: 10.1186/s13018-020-01675-w
- Örgel, M., Ranker, A., Harb, A., Krettek, C., Aschoff, H.H. (2021). Transkutane osseointegrierte Prothesensysteme (TOPS) nach Majoramputation der unteren Extremität : Eine retrospektive 3-Jahres-Analyse. *Orthopade* 50,4-13. DOI: 10.1007/s00132-020-04031-2
- Ranker, A., Örgel, M., Beck, J.P., Krettek, C., Aschoff, H.H. (2020). Transkutane osseointegrierte Prothesensysteme (TOPS) zur Versorgung Oberschenkelamputierter. *Rehabilitation (Stuttg)* 59,357-365. DOI: 10.1055/a-1223-3205
- Razaieian, S., Hawi, N., Zhang, D., Liidakis, E., Krettek, C. (2020). Conservative treatment of displaced isolated proximal humerus greater tuberosity fractures: preliminary results of a prospective, CT-based registry study. *Eur J Trauma Emerg Surg* DOI: 10.1007/s00068-020-01453-7
- Razaieian, S., Wiese, B., Zhang, D., Harb, A., Krettek, C., Hawi, N. (2020). Nonsensus in the treatment of proximal humerus fractures: uncontrolled, blinded, comparative behavioural analysis between *Homo chirurgicus accidentus* and *Macaca sylvanus*. *BMJ* 371,m4429. DOI: 10.1136/bmj.m4429
- Razaieian, S., Wiese, B., Zhang, D., Krettek, C., Meller, R., Hawi, N. (2020). Correlation between Oxford Elbow Score and Single Assessment Numeric Evaluation: Is one simple question enough? *J Shoulder Elbow Surg* 29,1223-1229. DOI: 10.1016/j.jse.2020.01.067
- Razaieian, S., Zhang, D., Harb, A., Meller, R., Krettek, C., Hawi, N. (2020). Distal Biceps Tendon Repair Using a Modified Double-Incision Technique: Patient-Reported Outcomes With 10-Year Follow-up. *Orthop J Sports Med* 8,2325967120944812. DOI: 10.1177/2325967120944812
- Relja, B., Yang, B., Bundkirchen, K., Xu, B., Köhler, K., Neunaber, C. (2020). Different experimental multiple trauma models induce comparable inflammation and organ injury. *Sci Rep* 10,20185. DOI: 10.1038/s41598-020-76499-z
- Stubig, T., Aidarous, H., Khalifa, A., Omar, M., Krettek, C., Omar Pacha, T. (2020). Development of an intraoperative 3D C-arm technique for torsion control of femur fractures: a cadaver study. *Arch Orthop Trauma Surg* 140,1739-1743. DOI: 10.1007/s00402-020-03432-4
- Werner, M., Krause, O., Macke, C., Herold, L., Ranker, A., Krettek, C., Liidakis, E. (2020). Orthogeriatric co-management for proximal femoral fractures. Can two additions make a big difference? *BMC Musculoskelet Disord* 21,371. DOI: 10.1186/s12891-020-03392-1

Editorials

Parry, J.A., Funk, A., Heare, A., Stacey, S., Mauffrey, C., Starr, A., Crist, B., Krettek, C., Jones, C.B., Kleweno, C.P., Firoozabadi, R., Sagi,

H.C., Archdeacon, M., Eastman, J., Langford, J., Oransky, M., Martin, M., Cole, P., Giannoudis, P., Byun, S.E., Morgan, S.J., Smith, W., Giordano, V., Trikha, V. (2021). An international survey of pelvic trauma surgeons on the management of pelvic ring injuries. *Injury* 52,2685-2692. DOI: 10.1016/j.injury.2020.07.027

Herausgeberschaften

Browner, B.D., Jupiter, J.B., Krettek, C., Anderson, P.A. (2020). *Skeletal trauma : basic science, management, and reconstruction ; 2 Vol.Set* (Philadelphia, Pa: Elsevier).

Habilitationen

Decker, S. (2020). *Adulte Deformitätenchirurgie der Wirbelsäule und assoziierte Komplikationen: Aspekte zur Operationsplanung. Kumulative Habilitationsschrift, Medizinische Hochschule Hannover, 2020*

Panzica, M.F. (2020). *Einsatz technischer Verfahren zur Kontrolle der Beingeometrie in der kniegelenksnahen Chirurgie. Habilitationsschrift, Medizinische Hochschule Hannover, 2020*

Weber-Spickschen, T.S. (2020). *Entwicklung und Testung eines Exergame-basierten Knie Trainings zur schnelleren Mobilisierung in der postoperativen Frühphase. Habilitationsschrift, Medizinische Hochschule Hannover, 2020*

Promotionen

Alanazi, S.F. (2020). *Die Stabilisierung der Syndesmosenverletzung mittels Schraubenfixierung versus TightRope® : eine biomechanische Kadaverstudie zur Analyse der auf das distale Tibiofibulargelenk wirkenden Kräfte. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020*

Boeckler, A. (2019). *Evaluation einer Patient(inn)eninformationsbroschüre zur elektiven operativen stationären Behandlung in einem Level-I-Traumazentrum. Dissertation, Medizinische Hochschule Hannover, 2020*

Brandes, J. (2019). *Fatty degeneration of the deltoid muscle associated with displaced proximal humerus fractures a computed tomography study in 100 consecutive patients Kumulative Dissertation, Medizinische Hochschule Hannover, 2020*

Gaedke, I.E. (2020). *Mittel- bis langfristige klinische und radiologische Ergebnisse nach oberer Sprunggelenkarthrodese. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020*

Gaudin, G.R. (2020). *Retrospektive, klinische Studie zur Untersuchung der Wirksamkeit der Neurolyse der Nervenwurzeln im Bereich von L4 - S1 bei Wirbelsäulenoperationen in „TLIF- und PLIF-Verfahren“ anhand der postoperativen Kraftgradsteigerung in der Fußhebung Dissertation, Medizinische Hochschule Hannover, 2020*

Geisler, C. (2018). *Vergleich der Erkrankungsschwere und medizinischen Versorgung von Patienten bei luft- und bodengebundenen Intensivtransporten in der Stadt und Region Hannover. Dissertation, Medizinische Hochschule Hannover, 2020*

Getz, P. (2019). *Limited influence of flail chest in patients with blunt thoracic trauma a matched-pair analysis = Retrospektive Datenanalyse an einem Level-1-Traumazentrum über einen Zeitraum von neun Jahren Kumulative Dissertation, Medizinische Hochschule Hannover, 2020*

Groth, C. (2019). *Langzeitergebnisse nach posteriorer mehrsegmentaler Osteosynthese mit einem etablierten pedikelschraubengestützten dynamischen Stabilisierungsverfahren im Lumbalbereich. Dissertation, Medizinische Hochschule Hannover, 2020*

Hartung, T.N. (2019). *Die Operationsgenauigkeit von roboterassistierter Reposition von Femurschaftfrakturen im Vergleich der Eingabemethodik. Dissertation, Medizinische Hochschule Hannover, 2020*

Khalifa, A.H. (2018). *Dynamic stabilization for degenerative diseases in the lumbar spine - 2 years results Kumulative Dissertation, Medizinische Hochschule Hannover, 2020*

Lentge, F. (2020). *Fingermittelgelenkarthrodese mittels Drahtnaht mit und ohne zusätzlichen Kirschnerdraht : eine vergleichende biomechanische Studie.*

Loschan, E.M. (2019). *Biomechanische Untersuchung zur retrograden kalkaneotibialen Transfixation instabiler Frakturen des oberen Sprunggelenkes am Leichenpräparat : ein Vergleich der frei Hand-Bohrung vs. der Bohrung mit einem Zielgerät. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020*

Ongsiek, A. (2019). *Einfluss des Alters von männlichen Knochenmarkspendern auf die Charakteristika von humanen mesenchymalen Stammzellen aus dem Knochenmark. Dissertation, Medizinische Hochschule Hannover, 2020*

Örgel, M.C.B. (2019). Ossäre Strukturveränderungen der Femurkortikalis nach Versorgung mittels der Endo - Exo - Prothetik. Dissertation, Medizinische Hochschule Hannover, 2020

Sarakintsis, M. (2020). Der eingeklemmte Polytraumapatient eine präklinische und klinische Analyse. Dissertation, Medizinische Hochschule Hannover, 2020

Schulz, M. (2019). Auswirkungen eines App-basierten postoperativen Trainingsprogramms auf die frühfunktionellen klinischen Ergebnisse nach Implantation einer Knieendoprothese: eine prospektiv randomisierte Studie. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Urologie und Urologische Onkologie – 6240

Originalpublikationen

Derlin, T., Sommerlath Sohns, J.M., Schmuck, S., Henkenberens, C., von Klot, C.A.J., Ross, T.L., Bengel, F.M. (2020). Influence of short-term dexamethasone on the efficacy of (177) Lu-PSMA-617 in patients with metastatic castration-resistant prostate cancer *Prostate* 80,619-631. DOI: 10.1002/pros.23974

Derlin, T., Werner, R.A., Lafos, M., Henkenberens, C., von Klot, C.A.J., Sommerlath Sohns, J.M., Ross, T.L., Bengel, F.M. (2020). Neuroendocrine Differentiation and Response to PSMA-Targeted Radioligand Therapy in Advanced Metastatic Castration-Resistant Prostate Cancer: A Single-Center Retrospective Study *J Nucl Med* 61,1602-1606. DOI: 10.2967/jnumed.120.241588

Fuhrmann, C., Struck, J.P., Ivanyi, P., Kramer, M.W., Hupe, M.C., Hensen, B., Fürschke, A., Peters, I., Merseburger, A.S., Kuczyk, M.A., von Klot, C.J. (2020). Checkpoint Inhibition for Metastatic Urothelial Carcinoma After Chemotherapy-Real-World Clinical Impressions and Comparative Review of the Literature *Front Oncol* 10,808. DOI: 10.3389/fonc.2020.00808

Harke, N.N., Darr, C., Radtke, J.P., von Ostau, N., Schiefelbein, F., Eraky, A., Hamann, C., Szarvas, T., Hadaschik, B.A., Tropmann-Frick, M., Juenemann, K.P., Schoen, G., Osmonov, D. (2020). Retroperitoneal Versus Transperitoneal Robotic Partial Nephrectomy: A Multicenter Matched-pair Analysis. *Eur Urol Focus* DOI: 10.1016/j.euf.2020.08.012

Harke, N.N., Radtke, J.P., Hadaschik, B.A., Bach, C., Berger, F.P., Blana, A., Borgmann, H., Distler, F.A., Edeling, S., Egner, T., Engels, C.L., Farzat, M., Haese, A., Hein, R., Kuczyk, M.A., Manseck, A., Moritz, R., Musch, M., Peters, I., Pokupic, S., Rocco, B., Schneider, A., Schumann, A., Schwentner, C., Sighinolfi, C.M., Buse, S., Stolzenburg, J.U., Truss, M.C., Waldner, M., Wülfing, C., Zimmermanns, V., Witt, J.H., Wagner, C. (2020). To defer or not to defer? A German longitudinal multicentric assessment of clinical practice in urology during the COVID-19 pandemic. *PLoS One* 15,e0239027. DOI: 10.1371/journal.pone.0239027

Henkenberens, C., Oehus, A.K., Derlin, T., Bengel, F., Ross, T.L., Kuczyk, M.A., Janssen, S., Christiansen, H., von Klot, C.A.J. (2020). Efficacy of repeated PSMA PET-directed radiotherapy for oligorecurrent prostate cancer after initial curative therapy *Strahlenther Onkol* 196,1006-1017. DOI: 10.1007/s00066-020-01629-5

Herrmann, T.R.W., Gravas, S., de la Rosette, J.J., Wolters, M., Anastasiadis, A.G., Giannakis, I. (2020). Lasers in Transurethral Enucleation of the Prostate-Do We Really Need Them. *J Clin Med* 9,1412. DOI: 10.3390/jcm9051412

Herrmann, T.R.W., Wolters, M. (2020). Transurethral anatomical enucleation of the prostate with Tm:YAG support (ThuLEP): Evolution and variations of the technique. The inventors' perspective. *Andrologia* 52,e13587. DOI: 10.1111/and.13587

Hupe, M.C., Dormayer, L., Ozimek, T., Struck, J.P., Hennig, M.J.P., Klee, M., von Klot, C.A.J., Kuczyk, M.A., Merseburger, A.S., Kramer, M.W. (2020). Impact of double J stenting or nephrostomy placement during transurethral resection of bladder tumour on the incidence of metachronous upper urinary tract urothelial cancer. *BMC Cancer* 20,140. DOI: 10.1186/s12885-020-6620-2

Huusmann, S., Wolters, M., Schilling, D., Kruck, S., Bader, M., Tokas, T., Herrmann, T.R., Nagele, U., Training and Research in Urological Surgery and Technology (T.R.U.S.T.)-Group. (2019). Druckverhältnisse bei Verwendung miniaturisierter PNL-Schäfte mit 9,5 Ch bzw. 12 Ch Aussendurchmesser für die minimalinvasive perkutane Nephrolitholapaxie (MIP): Ex-vivo-Druckstudien. *Aktuelle Urol* 50,71-75. DOI: 10.1055/a-0759-0140

Nestler, S., Bach, T., Herrmann, T., Jutzi, S., Roos, F.C., Hampel, C., Thüroff, J.W., Thomas, C., Neisius, A. (2019). Surgical treatment of large volume prostates: a matched pair analysis comparing the open, endoscopic (ThuVEP) and robotic approach. *World J Urol* 37,1927-1931. DOI: 10.1007/s00345-018-2585-z

Serth, J., Peters, I., Dubrowinskaja, N., Reese, C., Albrecht, K., Klintschar, M., Lafos, M., Grote, A., Becker, A., Hennenlotter, J., Stenzl, A., Tezval, H., Kuczyk, M.A. (2020). Age-, tumor-, and metastatic tissue-associated DNA hypermethylation of a T-box brain 1 locus in human kidney tissue. *Clin Epigenetics* 12,33. DOI: 10.1186/s13148-020-0823-x

Sternberg, C.N., Fizazi, K., Saad, F., Shore, N.D., De Giorgi, U., Penson, D.F., Ferreira, U., Efsthathiou, E., Madziarska, K., Kolinsky, M.P., Cubero, D.I.G., Noerby, B., Zohren, F., Lin, X., Modelska, K., Sugg, J., Steinberg, J., Hussain, M., PROSPER Investigators. (2020). Enzalutamide and Survival in Nonmetastatic, Castration-Resistant Prostate Cancer. *N Engl J Med* 382,2197-2206. DOI: 10.1056/NEJMoa2003892

Struck, J.P., Kramer, M.W., Katzendorn, O., Hupe, M.C., Ozimek, T., Hennig, M.J.P., Wiessmeyer, J.R., von Klot, C.A.J., Kuczyk, M.A., Kreipe, H.H., Merseburger, A.S., Perner, S., Dressler, F.F. (2021). Bicentric Retrospective Analysis of en Bloc Resection and Muscularis Mucosae Detection Rate in Non-Muscle Invasive Bladder Tumors: A Real-World Scenario *Adv Ther* 38,258-267. DOI: 10.1007/s12325-020-01529-1

Vassis, S., Nöldeke, B., Christiansen, H., von Klot, C.A., Merten, R. (2020). Moderately HRT vs. CRT for localized prostate cancer using image-guided VMAT with SIB: evaluation of acute and late toxicities *Strahlenther Onkol* 196,598-607. DOI: 10.1007/s00066-020-01589-w

Übersichtsarbeiten

Abu-Ghanem, Y., Fernandez-Pello, S., Bex, A., Ljungberg, B., Albiges, L., Dabestani, S., Giles, R.H., Hofmann, F., Hora, M., Kuczyk, M.A., Kuusk, T., Marconi, L., Merseburger, A.S., Tahbaz, R., Staehler, M., Volpe, A., Powles, T., Lam, T.B., Bensalah, K. (2020). Limitations of Available Studies Prevent Reliable Comparison Between Tumour Ablation and Partial Nephrectomy for Patients with Localised Renal Masses: A Systematic Review from the European Association of Urology Renal Cell Cancer Guideline Panel. *Eur Urol Oncol* 3,433-452. DOI: 10.1016/j.euo.2020.02.001

Fernandez-Pello, S., Hora, M., Kuusk, T., Tahbaz, R., Dabestani, S., Abu-Ghanem, Y., Albiges, L., Giles, R.H., Hofmann, F., Kuczyk, M.A., Lam, T.B., Marconi, L., Merseburger, A.S., Powles, T., Staehler, M., Volpe, A., Ljungberg, B., Bex, A., Bensalah, K. (2020). Management of Sporadic Renal Angiomyolipomas: A Systematic Review of Available Evidence to Guide Recommendations from the European Association of Urology Renal Cell Carcinoma Guidelines Panel. *Eur Urol Oncol* 3,57-72. DOI: 10.1016/j.euo.2019.04.005

Kedia, G.T., Ückert, S., Tsikas, D., Becker, A.J., Kuczyk, M.A., Bannowsky, A. (2020). The Use of Vasoactive Drugs in the Treatment of Male Erectile Dysfunction: Current Concepts *J Clin Med* 9,E2987. DOI: 10.3390/jcm9092987

Miller, K., Bergmann, L., Doehn, C., Grünwald, V., Gschwend, J.E., Ivanyi, P., Keilholz, U., Kuczyk, M.A. (2020). Interdisziplinäre Empfehlungen zur Behandlung des fortgeschrittenen Nierenzellkarzinoms *Aktuelle Urol* 51,572-581. DOI: 10.1055/a-1252-1780

Abstracts

Winkler, T., Kuczyk, M.A., Tezval, H., Droese, L., Gerbel, S., von Kloth, C.A. (2020). Das Urothelkarzinom der Harnblase - eine retrospektive Analyse der Tumorstadien in Abhängigkeit vom Lebensalter. 14. Nordkongress Urologie, 04.-06.Juni 2020, Berlin (online).

Habilitationen

von Klot, C.J. (2017). Treatment and clinical considerations in the treatment of metastatic castration resistant prostate cancer (mCRPC) *Kumulative Habilitationsschrift, Medizinische Hochschule Hannover, 2018*

Promotionen

Büttner, M. (2019). Einfluss der Nierenteilresektion ohne Ischämie auf intra- und postoperative Komplikationen. *Dissertation, Medizinische Hochschule Hannover, 2020*

Dziuba, S. (2019). Verbreitung und Akzeptanz laparoskopischer Techniken in der Urologie im deutschsprachigen Raum *Dissertation, Medizinische Hochschule Hannover, 2020*

Hill, B. (2020). Identifizierung neuer genomischer Loci mit altersabhängiger DNA-Methylierung in humanen Nierengewebe. *Dissertation, Medizinische Hochschule Hannover, 2020*

Ji, J. (2019). DNA methylation status of PTGS2, GSTP1, RASSF1 and RARB in seminal vesicle aspirates of localized prostate cancer patients. *Dissertation, Medizinische Hochschule Hannover, 2020*

Nicklas, A.P. (2020). Calgranulin-A-Immunhistochemie bei nichtmuskelinvasivem Harnblasenkarzinom - ein potenzieller Biomarker für die Risikobewertung von Patienten mit hohem Rezidiv- oder Progressionsrisiko. *Dissertation, Medizinische Hochschule Hannover, 2020*

Surdyk, K. (2020). Der Einfluss des Gleason-Scores auf die Entstehung des metastasierten kastrationsresistenten Prostatakarzinoms. *Dissertation, Medizinische Hochschule Hannover, 2020*

Klinik für Allgemein-, Viszeral- und Transplantationschirurgie – 6220

Originalpublikationen

Bahlmann, J., Madrahimov, N., Daniel, F., Theidel, D., DeTemple, D.E., Buettner, M., Bleich, A., Haverich, A., Heisterkamp, A., Kalies, S. (2020). Establishment of a guided, in vivo, multi-channel, abdominal, tissue imaging approach. *Sci Rep* 10,9224. DOI: 10.1038/s41598-020-65950-w

Beetz, O., Sarisin, A., Kaltenborn, A., Klempnauer, J., Winkler, M., Grannas, G. (2020). Multivisceral resection for adenocarcinoma of the pancreatic body and tail—a retrospective single-center analysis. *World J Surg Oncol* 18,218. DOI: 10.1186/s12957-020-01973-x

Beetz, O., Söffker, R., Cammann, S., Oldhafer, F., Vondran, F.W.R., Imkamp, F., Klempnauer, J., Kleine, M. (2020). Extended hepatic metastasectomy for renal cell carcinoma—new aspects in times of targeted therapy: a single-center experience over three decades. *Langenbecks Arch Surg* 405,97-106. DOI: 10.1007/s00423-019-01852-4

Beetz, O., Weigle, C.A., Cammann, S., Vondran, F.W.R., Timrott, K., Kulik, U., Bektas, H., Klempnauer, J., Kleine, M., Oldhafer, F. (2020). Preoperative leukocytosis and the resection severity index are independent risk factors for survival in patients with intrahepatic cholangiocarcinoma. *Langenbecks Arch Surg* 405,977-988. DOI: 10.1007/s00423-020-01962-4

Beetz, O., Weigle, C.A., Nogly, R., Klempnauer, J., Pape, L., Richter, N., Vondran, F.W.R. (2021). Surgical complications in pediatric kidney transplantation—Incidence, risk factors, and effects on graft survival: A retrospective single-center study. *Pediatr Transplant* 25,e13871. DOI: 10.1111/ptr.13871

Berenguer, M., Di Maira, T., Baumann, U., Mirza, D.F., Heneghan, M.A., Klempnauer, J.L., Bennet, W., Ericzon, B.G., Line, P.D., Lodge, P.A., Zieniewicz, K., Watson, C.J.E., Metselaar, H.J., Adam, R., Karam, V., Aguilera, V., all the other contributing centers (www.eltr.org) and the European Liver and Intestine Transplant Association (ELITA). (2021). Characteristics, trends and Outcomes of Liver Transplantation for Primary sclerosing cholangitis in female vs male patients: An analysis from the European Liver Transplant Registry. *Transplantation* 105,2255-2262. DOI: 10.1097/TP.0000000000003542

Bojkova, D., Westhaus, S., Costa, R., Timmer, L., Funkenberg, N., Korencak, M., Streeck, H., Vondran, F., Broering, R., Heinrichs, S., Lang, K.S., Ciesek, S. (2020). Sofosbuvir Activates EGFR-Dependent Pathways in Hepatoma Cells with Implications for Liver-Related Pathological Processes. *Cells* 9,DOI: 10.3390/cells9041003

Brown, R.J.P., Tegtmeyer, B., Sheldon, J., Khera, T., Anggakusuma, Todt, D., Vieyres, G., Weller, R., Joecks, S., Zhang, Y., Sake, S., Bankwitz, D., Welsch, K., Ginkel, C., Engelmann, M., Gerold, G., Steinmann, E., Yuan, Q., Ott, M., Vondran, F.W.R., Krey, T., Ströh, L.J., Miskey, C., Ivics, Z., Herder, V., Baumgärtner, W., Lauber, C., Seifert, M., Tarr, A.W., McClure, C.P., Randall, G., Baktash, Y., Ploss, A., Thi, V.L.D., Michailidis, E., Saeed, M., Verhoye, L., Meuleman, P., Goedecke, N., Wirth, D., Rice, C.M., Pietschmann, T. (2020). Liver-expressed Cd302 and Cr11 limit hepatitis C virus cross-species transmission to mice *Sci Adv* 6,DOI: 10.1126/sciadv.abd3233

Carpentier, A., Sheldon, J., Vondran, F.W.R., Brown, R.J., Pietschmann, T. (2020). Efficient acute and chronic infection of stem cell-derived hepatocytes by hepatitis C virus. *Gut* 69,1659-1666. DOI: 10.1136/gutjnl-2019-319354

Carvalho Oliveira, M., Valdivia, E., Verboom, M., Yuzefovych, Y., Sake, H.J., Pogozhykh, O., Niemann, H., Schwinzer, R., Petersen, B., Seisler, J., Blasczyk, R., Figueiredo, C. (2020). Generating low immunogenic pig pancreatic islet cell clusters for xenotransplantation *J Cell Mol Med* 24,5070-5081. DOI: 10.1111/jcmm.15136

Dembinski, J., Aranovich, D., Banz, V., Ehmann, T., Klein, I., Malago, M., Richter, N., Schnitzbauer, A.A., Staszewicz, W., Tautenhahn, H.M., Capel, J., Regimbeau, J.M. (2020). Surgical technique for placement of the automated low flow ascites pump (Alfapump). *Langenbecks Arch Surg* 405,117-123. DOI: 10.1007/s00423-019-01822-w

DeTemple, D.E., Cammann, S., Bahlmann, J., Buettner, M., Heisterkamp, A., Vondran, F.W.R., Kalies, S.K. (2020). Longitudinal imaging and femtosecond laser manipulation of the liver: How to generate and trace single-cell-resolved micro-damage in vivo. *PLoS One* 15,e0240405. DOI: 10.1371/journal.pone.0240405

Drexler, R., Fahy, R., Küchler, M., Wagner, K.C., Reese, T., Ehmke, M., Feyerabend, B., Kleine, M., Oldhafer, K.J. (2021). Association of subcellular localization of TEAD transcription factors with outcome and progression in pancreatic ductal adenocarcinoma. *Pancreatology* 21,170-179. DOI: 10.1016/j.pan.2020.12.003

- Drexler, R., Küchler, M., Wagner, K.C., Reese, T., Feyerabend, B., Kleine, M., Oldhafer, K.J. (2021).The clinical relevance of the Hippo pathway in pancreatic ductal adenocarcinoma. *J Cancer Res Clin Oncol* *147*,789-797. DOI: 10.1007/s00432-020-03427-z
- Drexler, R., Wagner, K.C., Küchler, M., Feyerabend, B., Kleine, M., Oldhafer, K.J. (2020).Significance of unphosphorylated and phosphorylated heat shock protein 27 as a prognostic biomarker in pancreatic ductal adenocarcinoma. *J Cancer Res Clin Oncol* *146*,1125-1137. DOI: 10.1007/s00432-020-03175-0
- Germani, G., Zeni, N., Zanetto, A., Adam, R., Karam, V., Belli, L.S., O'Grady, J., Mirza, D., Klempnauer, J., Cherqui, D., Pratschke, J., Jamieson, N., Salizzoni, M., Hidalgo, E., Lerut, J., Paul, A., Garcia-Valdecasas, J.C., Rodriguez, F.S.J., Villa, E., Burra, P., European Liver, Intestine Transplant Association (ELITA). (2020).Influence of donor and recipient gender on liver transplantation outcomes in Europe. *Liver Int* *40*,1961-1971. DOI: 10.1111/liv.14510
- Kamp, J.C., von Kaisenberg, C., Greve, S., Winter, L., Park, D.H., Fuge, J., Kühn, C., Hoeper, M.M., Olsson, K.M. (2021).Pregnancy in pulmonary arterial hypertension: Midterm outcomes of mothers and offspring *J Heart Lung Transplant* *40*,229-233. DOI: 10.1016/j.healun.2020.12.002
- Kinast, V., Plociennikowska, A., Anggakusuma, Bracht, T., Todt, D., Brown, R.J.P., Boldanova, T., Zhang, Y., Brüggemann, Y., Friesland, M., Engemann, M., Vieyres, G., Broering, R., Vondran, F.W.R., Heim, M.H., Sitek, B., Bartenschlager, R., Pietschmann, T., Steinmann, E. (2020).C19orf66 is an interferon-induced inhibitor of HCV replication that restricts formation of the viral replication organelle. *J Hepatol* *73*,549-558. DOI: 10.1016/j.jhep.2020.03.047
- Lauterbach-Riviere, L., Bergez, M., Mönch, S., Qu, B., Riess, M., Vondran, F.W.R., Liese, J., Hornung, V., Urban, S., König, R. (2020).Hepatitis B Virus DNA is a Substrate for the cGAS/STING Pathway but is not Sensed in Infected Hepatocytes. *Viruses* *12*,592. DOI: 10.3390/v12060592
- Mehrabi, A., Kulu, Y., Sabagh, M., Khajeh, E., Mohammadi, S., Ghamarnejad, O., Golriz, M., Morath, C., Bechstein, W.O., Berlakovich, G.A., Demartines, N., Duran, M., Fischer, L., Gürke, L., Klempnauer, J., Königsrainer, A., Lang, H., Neumann, U.P., Pascher, A., Paul, A., Pisarski, P., Pratschke, J., Schneeberger, S., Settmacher, U., Viebahn, R., Wirth, M., Wullich, B., Zeier, M., Büchler, M.W. (2020).Consensus on definition and severity grading of lymphatic complications after kidney transplantation. *Br J Surg* *107*,801-811. DOI: 10.1002/bjs.11587
- Memaran, N., Küpper, C., Borchert-Mörlins, B., von Wick, A., Bauer, E., Jäckel, E., Maasoumy, B., Vondran, F.W.R., Sugianto, R.I., von der Born, J., Schmidt, B.M.W., Melk, A. (2021).Prospective assessment of subclinical cardiovascular damage and associated factors in liver transplant recipients *Transpl Int* *34*,127-138. DOI: 10.1111/tri.13773
- Oldhafer, F., Wittauer, E.M., Beetz, O., Vondran, F.W.R. (2020).Long-term Functional Maintenance of Exteriorized Portal Venous Catheters in a Porcine Animal Model. *J Surg Res* *251*,187-194. DOI: 10.1016/j.jss.2020.02.003
- Ostroumov, D., Duong, S., Wingerath, J., Woller, N., Manns, M.P., Timrott, K., Kleine, M., Ramackers, W., Roessler, S., Nahnsen, S., Czernel, S., Dittrich-Breiholz, O., Eggert, T., Kühnel, F., Wirth, T.C. (2021).Transcriptome profiling identifies TIGIT as a marker of T cell exhaustion in liver cancer. *Hepatology* *73*,1399-1418. DOI: 10.1002/hep.31466
- Pflugrad, H., Nösel, P., Ding, X., Schmitz, B., Lanfermann, H., Barg-Hock, H., Klempnauer, J., Schiffer, M., Weissenborn, K. (2020).Brain function and metabolism in patients with long-term tacrolimus therapy after kidney transplantation in comparison to patients after liver transplantation. *PLoS One* *15*,e0229759. DOI: 10.1371/journal.pone.0229759
- Ramackers, W., Rataj, D., Werwitzke, S., Bergmann, S., Winkler, M., Wunsch, A., Bähr, A., Wolf, E., Klymiuk, N., Ayares, D., Tiede, A. (2020).Expression of human thrombomodulin on porcine endothelial cells can reduce platelet aggregation but did not reduce activation of complement or endothelium - an experimental study. *Transpl Int* *33*,437-449. DOI: 10.1111/tri.13573
- Ramackers, W., Stupak, J.V., Marcheel, I.L., Tuffs, A., Schrem, H., Fischer, V., Beneke, J. (2020).Regression analyses of questionnaires in bedside teaching. *BMC Med Educ* *20*,371. DOI: 10.1186/s12909-020-02295-y
- Schnitzbauer, A.A., Filmann, N., Adam, R., Bachellier, P., Bechstein, W.O., Becker, T., Bhoori, S., Bilbao, I., Brockmann, J., Burra, P., Chazoullieres, O., Cillo, U., Colledan, M., Duvoux, C., Ganten, T.M., Gugenheim, J., Heise, M., van Hoek, B., Jamieson, N., de Jong, K.P., Klein, C.G., Klempnauer, J., Kneteman, N., Lerut, J., Mäkisalo, H., Mazzaferro, V., Mirza, D.F., Nadalin, S., Neuhaus, P., Pageaux, G.P., Pinna, A.D., Pirenne, J., Pratschke, J., Powel, J., Rentsch, M., Rizell, M., Rossi, G., Rostaing, L., Roy, A., Scholz, T., Settmacher, U., Solomon, T., Strasser, S., Söderdahl, G., Troisi, R.I., Turrion, V.S., Schlitt, H.J., Geissler, E.K. (2020).mTOR Inhibition Is Most Beneficial After Liver Transplantation for Hepatocellular Carcinoma in Patients With Active Tumors. *Ann Surg* *272*,855-862. DOI: 10.1097/SLA.0000000000004280

Sneidere, M., Schrem, H.H., Mahlmann, J.C., Beetz, O., Cammann, S., Oldhafer, F., Kleine, M., Klempnauer, J., Kaltenborn, A., Zwirner, U., Kulik, U. (2020). Prognose der Morbidität nach Leberresektion kolorektaler Lebermetastasen - Vorstellung eines multivariablen Modells. *Zentralbl Chir* DOI: 10.1055/a-1243-0746

Stahl, K., Busch, M., Fuge, J., Schneider, A., Manns, M.P., Seeliger, B., Schmidt, J.J., Wiesner, O., Schmidt, B.M.W., Taubert, R., Vondran, F.W.R., Hoepfer, M.M., David, S. (2020). Therapeutic plasma exchange in acute on chronic liver failure. *J Clin Apher* 35,316-327. DOI: 10.1002/jca.21799

Stocklassa, T., Borchert-Mörlins, B., Memaran, N., Einecke, G., Schmitt, R., Richter, N., Vondran, F.W., Bauer, E., Markefke, S., Melk, A., Schmidt, B.M.W. (2021). Sex Differences in Subclinical Cardiovascular Organ Damage After Renal Transplantation: A Single-Center Cohort Study. *J Womens Health (Larchmt)* 30,1352-1361. DOI: 10.1089/jwh.2020.8594

Timrott, K., Beetz, O., Oldhafer, F., Klempnauer, J., Vondran, F.W.R., Jäger, M.D. (2020). The importance of MHC class II in allogeneic bone marrow transplantation and chimerism-based solid organ tolerance in a rat model. *PLoS One* 15,e0233497. DOI: 10.1371/journal.pone.0233497

Todt, D., Friesland, M., Moeller, N., Praditya, D., Kinast, V., Brüggemann, Y., Knegendorf, L., Burkard, T., Steinmann, J., Burm, R., Verhoye, L., Wahid, A., Meister, T.L., Engelmann, M., Pfankuche, V.M., Puff, C., Vondran, F.W.R., Baumgärtner, W., Meuleman, P., Behrendt, P., Steinmann, E. (2020). Robust hepatitis E virus infection and transcriptional response in human hepatocytes. *Proc Natl Acad Sci U S A* 117,1731-1741. DOI: 10.1073/pnas.1912307117

Vieyres, G., Reichert, I., Carpentier, A., Vondran, F.W.R., Pietschmann, T. (2020). The ATGL lipase cooperates with ABHD5 to mobilize lipids for hepatitis C virus assembly. *PLoS Pathog* 16,e1008554. DOI: 10.1371/journal.ppat.1008554

Vogel, A., Hinrichs, J., Timrott, K., Sabrowski. (2020). BCLC-Stadieneinteilung: Wo ändern sich Therapiestandards? *Kompodium Gastroenterologie* 16,21-27.

von Hahn, T., Vondran, F.W.R. (2020). Maligne und benigne Gallenwegserkrankungen. *Gastroenterologie* 15,387-396. DOI: 10.1007/s11377-020-00467-2

Waldron, L.S., Cerisuelo, M.C., Lo, D., Sayed, B.A., Vilca-Melendez, H., Magliocca, J., Lurz, E., Baumann, U., Vondran, F.W.R., Richter, N., von Schweinitz, D., Guba, M., Muensterer, O.J., Berger, M. (2021). Diaphragmatic Hernia following Pediatric Liver Transplantation: An Underappreciated Complication Prone to Recur. *Eur J Pediatr Surg* 31,396-406. DOI: 10.1055/s-0040-1716882

Wandrer, F., Frangez, Z., Liebig, S., John, K., Vondran, F., Wedemeyer, H., Veltmann, C., Pfeffer, T.J., Shibolet, O., Schulze-Osthoff, K., Simon, H.U., Bantel, H. (2020). Autophagy alleviates amiodarone-induced hepatotoxicity. *Arch Toxicol* 94,3527-3539. DOI: 10.1007/s00204-020-02837-9

Weigle, C.A., Lieke, T., Vondran, F.W.R., Timrott, K., Klempnauer, J., Beetz, O. (2020). An Immunological Model for Heterotopic Heart and Cardiac Muscle Cell Transplantation in Rats. *J Vis Exp (159)*, DOI: 10.3791/60956

Yang, D., Dai, Z., Yang, T., Balakrishnan, A., Yuan, Q., Vondran, F.W.R., Manns, M.P., Ott, M., Cantz, T., Sharma, A.D. (2020). MicroRNA-125b-5p Regulates Hepatocyte Proliferation During the Termination Phase of Liver Regeneration. *Hepatology* 4,1851-1863. DOI: 10.1002/hep4.1597

Übersichtsarbeiten

Reichart, B., Längin, M., Denner, J., Schwinzer, R., Cowan, P.J., Wolf, E. (2021). Pathways to Clinical Cardiac Xenotransplantation. *Transplantation* 105,1930-1943. DOI: 10.1097/TP.0000000000003588

Case reports

Welland, S., De Castro, T., Wirth, T., Kleine, M., Ringe, K.I., Saborowski, A., Vogel, A. (2020). Best supportive care bei einer jungen Patientin mit lokal fortgeschrittenem MSI-high-Kolonkarzinom? *Z Gastroenterol* 58,872-876. DOI: 10.1055/a-1174-0732

Habilitationen

Pöhnert, D. (2020). Peritoneale Adhäsionen - Entwicklung eines Tiermodells zur Adhäsionsinduktion und Testung antiadhäsiver Medizinprodukte. Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Promotionen

Bani Hashem, A.A. (2018). Konsequenzen der Akzeptanz einer linken versus einer rechten Spenderniere für die Transplantation in die rechte versus die linke Fossa iliaca beim Organempfänger. Dissertation, Medizinische Hochschule Hannover, 2020

Hein, R.E.A. (2020). Strategien zur Verminderung des stimulatorischen Potenzials porziner MHC Moleküle für humane T Zellantworten
Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Oldhafer, F. (2019). Einfluss immunsuppressiver Medikamente auf die allogene Immunantwort in einem in-vitro Modell der Hepatozyten-
Transplantation. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Kliniken/Institute der Sektion II ohne Zentrumszuordnung

Klinik für Frauenheilkunde und Geburtshilfe – 6410

Originalpublikationen

Besharati, M., von Versen-Höyneck, F., Kapphahn, K., Baker, V.L. (2020). Examination of fetal growth trajectories following infertility treatment. *J Assist Reprod Genet* 37,1399-1407. DOI: 10.1007/s10815-020-01785-8

Brodowski, L., Rochow, N., Yousuf, E.I., Kohls, F., von Kaisenberg, C.S., Schild, R.L., Berlage, S., Hagenah, H.P., Voigt, M. (2020). The cumulative impact of parity on the body mass index (BMI) in a non-selected Lower Saxony population. *J Perinat Med* 49,460-467. DOI: 10.1515/jpm-2020-0261

Brodowski, L., Schröder-Heurich, B., Kipke, B., Schmidt, C., von Kaisenberg, C.S., von Versen-Höyneck, F. (2020). Low Ethanol Concentrations Promote Endothelial Progenitor Cell Capacity and Reparative Function. *Cardiovasc Ther* 2020,4018478. DOI: 10.1155/2020/4018478

Cibula, D., Dostalek, L., Hillemanns, P., Scambia, G., Jarkovsky, J., Persson, J., Raspagliesi, F., Novak, Z., Jaeger, A., Capilna, M.E., Weinberger, V., Klat, J., Schmidt, R.L., Lopez, A., Scibilia, G., Pareja, R., Kucukmetin, A., Kreitner, L., El-Balat, A., Pereira, G.J.R., Laufhütte, S., Isla-Ortiz, D., Toptas, T., Gil-Ibanez, B., Vergote, I., Runnenbaum, I. (2020). Completion of radical hysterectomy does not improve survival of patients with cervical cancer and intraoperatively detected lymph node involvement: ABRAX international retrospective cohort study *Eur J Cancer* 143,88-100. DOI: 10.1016/j.ejca.2020.10.037

Dammann, O., Friederichs, K.M., Lebedinski, S., Liesenfeld, K.M. (2021). The Essence of Authenticity. *Front Psychol* 11,629654. DOI: 10.3389/fpsyg.2020.629654

Escala-Garcia, M., Abraham, J., Andriulis, I.L., Anton-Culver, H., Arndt, V., Ashworth, A., Auer, P.L., Auvinen, P., Beckmann, M.W., Beesley, J., Behrens, S., Benitez, J., Bermisheva, M., Blomqvist, C., Blot, W., Bogdanova, N.V., Bojesen, S.E., Bolla, M.K., Børresen-Dale, A.L., Brauch, H., Brenner, H., Brucker, S.Y., Burwinkel, B., Caldas, C., Canzian, F., Chang-Claude, J., Chanock, S.J., Chin, S.F., Clarke, C.L., Couch, F.J., Cox, A., Cross, S.S., Czene, K., Daly, M.B., Dennis, J., Devilee, P., Dunn, J.A., Dunning, A.M., Dwek, M., Earl, H.M., Eccles, D.M., Eliassen, A.H., Ellberg, C., Evans, D.G., Fasching, P.A., Figueroa, J., Flyger, H., Gago-Dominguez, M., Gapstur, S.M., Garcia-Closas, M., García-Sáenz, J.A., Gaudet, M.M., George, A., Giles, G.G., Goldgar, D.E., González-Neira, A., Grip, M., Guénel, P., Guo, Q., Haiman, C.A., Håkansson, N., Hamann, U., Harrington, P.A., Hiller, L., Hoening, M.J., Hopper, J.L., Howell, A., Huang, C.S., Huang, G., Hunter, D.J., Jakubowska, A., John, E.M., Kaaks, R., Kapoor, P.M., Keeman, R., Kitahara, C.M., Koppert, L.B., Kraft, P., Kristensen, V.N., Lambrechts, D., Le Marchand, L., Lejbkovicz, F., Lindblom, A., Lubinski, J., Mannermaa, A., Manoochchri, M., Manoukian, S., Margolin, S., Martinez, M.E., Maurer, T., Mavroudis, D., Meindl, A., Milne, R.L., Mulligan, A.M., Neuhausen, S.L., Nevanlinna, H., Newman, W.G., Olshan, A.F., Olson, J.E., Olsson, H., Orr, N., Peterlongo, P., Petridis, C., Prentice, R.L., Presneau, N., Punie, K., Ramachandran, D., Rennert, G., Romero, A., Sachchithanathan, M., Saloustros, E., Sawyer, E.J., Schmutzler, R.K., Schwentner, L., Scott, C., Simard, J., Sohn, C., Southey, M.C., Swerdlow, A.J., Tamimi, R.M., Tapper, W.J., Teixeira, M.R., Terry, M.B., Thorne, H., Tollenaar, R.A.E.M., Tomlinson, I., Troester, M.A., Truong, T., Turnbull, C., Vachon, C.M., van der Kolk, L.E., Wang, Q., Winqvist, R., Wolk, A., Yang, X.R., Ziogas, A., Pharoah, P.D.P., Hall, P., Wessels, L.F.A., Chenevix-Trench, G., Bader, G.D., Dörk, T., Easton, D.F., Canisius, S., Schmidt, M.K. (2020). A network analysis to identify mediators of germline-driven differences in breast cancer prognosis *Nat Commun* 11,312. DOI: 10.1038/s41467-019-14100-6

Esmaeilzadeh, M., Hong, B., Polemikos, M., Al-Afif, S., Hermann, E.J., Scheinichen, D., von Kaisenberg, C., Hillemanns, P., Krauss, J.K. (2020). Spinal emergency surgery during pregnancy: contemporary strategies and outcome. *World Neurosurg* 139,e421-e427. DOI: 10.1016/j.wneu.2020.04.019

Esmailzadeh, M., Uksul, N., Hong, B., von Kaisenberg, C., Scheinichen, D., Lang, J.M., Hermann, E.J., Hillemanns, P., Krauss, J.K. (2020). Intracranial emergencies during pregnancy requiring urgent neurosurgical treatment. *Clin Neurol Neurosurg* 195,105905. DOI: 10.1016/j.clineuro.2020.105905

Fachal, L., Aschard, H., Beesley, J., Barnes, D.R., Allen, J., Kar, S., Pooley, K.A., Dennis, J., Michailidou, K., Turman, C., Soucy, P., Lemacon, A., Lush, M., Tyrer, J.P., Ghoussaini, M., Moradi Marjaneh, M., Jiang, X., Agata, S., Aittomäki, K., Alonso, M.R., Andrulis, I.L., Anton-Culver, H., Antonenkova, N.N., Arason, A., Arndt, V., Aronson, K.J., Arun, B.K., Auber, B., Auer, P.L., Azzollini, J., Balmana, J., Barkardottir, R.B., Barrowdale, D., Beeghly-Fadiel, A., Benitez, J., Bermisheva, M., Bialkowska, K., Blanco, A.M., Blomqvist, C., Blot, W., Bogdanova, N.V., Bojesen, S.E., Bolla, M.K., Bonanni, B., Borg, A., Bosse, K., Brauch, H., Brenner, H., Briceno, I., Brock, I.W., Brooks-Wilson, A., Bruning, T., Burwinkel, B., Buys, S.S., Cai, Q., Caldes, T., Caligo, M.A., Camp, N.J., Campbell, I., Canzian, F., Carroll, J.S., Carter, B.D., Castelao, J.E., Chiquette, J., Christiansen, H., Chung, W.K., Claes, K.B.M., Clarke, C.L., GEMO Study Collaborators, EMBRACE Collaborators, Collee, J.M., Cornelissen, S., Couch, F.J., Cox, A., Cross, S.S., Cybulski, C., Czene, K., Daly, M.B., de la Hoya, M., Devilee, P., Diez, O., Ding, Y.C., Dite, G.S., Domchek, S.M., Dörk, T., Dos-Santos-Silva, I., Droit, A., Dubois, S., Dumont, M., Duran, M., Durcan, L., Dwek, M., Eccles, D.M., Engel, C., Eriksson, M., Evans, D.G., Fasching, P.A., Fletcher, O., Floris, G., Flyger, H., Foretova, L., Foulkes, W.D., Friedman, E., Fritschi, L., Frost, D., Gabrielson, M., Gago-Dominguez, M., Gambino, G., Ganz, P.A., Gapstur, S.M., Garber, J., Garcia-Saenz, J.A., Gaudet, M.M., Georgoulas, V., Giles, G.G., Glendon, G., Godwin, A.K., Goldberg, M.S., Goldgar, D.E., Gonzalez-Neira, A., Tibiletti, M.G., Greene, M.H., Grip, M., Gronwald, J., Grundy, A., Guenel, P., Hahnen, E., Haiman, C.A., Hakansson, N., Hall, P., Hamann, U., Harrington, P.A., Hartikainen, J.M., Hartman, M., He, W., Healey, C.S., Heemskerk-Gerritsen, B.A.M., Heyworth, J., Hillemanns, P., Hogervorst, F.B.L., Hollestelle, A., Hoening, M.J., Hopper, J.L., Howell, A., Huang, G., Hulick, P.J., Ilyanov, E.N., KConFab Investigators, HEBON Investigators, ABCTB Investigators, Isaacs, C., Iwasaki, M., Jager, A., Jakimovska, M., Jakubowska, A., James, P.A., Janavicius, R., Jankowitz, R.C., John, E.M., Johnson, N., Jones, M.E., Jukkola-Vuorinen, A., Jung, A., Kaaks, R., Kang, D., Kapoor, P.M., Karlan, B.Y., Keeman, R., Kerin, M.J., Khusnutdinova, E., Kiiski, J.I., Kirk, J., Kitahara, C.M., Ko, Y.D., Konstantopoulou, I., Kosma, V.M., Koutros, S., Kubelka-Sabit, K., Kwong, A., Kyriacou, K., Laitman, Y., Lambrechts, D., Lee, E., Leslie, G., Lester, J., Lesueur, F., Lindblom, A., Lo, W.Y., Long, J., Lophatananon, A., Loud, J.T., Lubinski, J., MacInnis, R.J., Maishman, T., Makalic, E., Mannermaa, A., Manoochehri, M., Manoukian, S., Margolin, S., Martinez, M.E., Matsuo, K., Maurer, T., Mavroudis, D., Mayes, R., McGuffog, L., McLean, C., Mebirouk, N., Meindl, A., Miller, A., Miller, N., Montagna, M., Moreno, F., Muir, K., Mulligan, A.M., Munoz-Garzon, V.M., Muranen, T.A., Narod, S.A., Nassir, R., Nathanson, K.L., Neuhausen, S.L., Nevanlinna, H., Neven, P., Nielsen, F.C., Nikitina-Zake, L., Norman, A., Offit, K., Olah, E., Olopade, O.I., Olsson, H., Orr, N., Osorio, A., Pankratz, V.S., Papp, J., Park, S.K., Park-Simon, T.W., Parsons, M.T., Paul, J., Pedersen, I.S., Peissel, B., Peshkin, B., Peterlongo, P., Peto, J., Plaseska-Karanfilska, D., Prajzandanc, K., Prentice, R., Presneau, N., Prokofyeva, D., Pujana, M.A., Pylkas, K., Radice, P., Ramus, S.J., Rantala, J., Rau-Murthy, R., Rennert, G., Risch, H.A., Robson, M., Romero, A., Rossing, M., Saloustros, E., Sanchez-Herrero, E., Sandler, D.P., Santamarina, M., Saunders, C., Sawyer, E.J., Scheuner, M.T., Schmidt, D.F., Schmutzler, R.K., Schneeweiss, A., Schoemaker, M.J., Schottker, B., Schurmann, P., Scott, C., Scott, R.J., Senter, L., Seynaeve, C.M., Shah, M., Sharma, P., Shen, C.Y., Shu, X.O., Singer, C.F., Slavin, T.P., Smichkoska, S., Southey, M.C., Spinelli, J.J., Spurdle, A.B., Stone, J., Stoppa-Lyonnet, D., Sutter, C., Swerdlow, A.J., Tamimi, R.M., Tan, Y.Y., Tapper, W.J., Taylor, J.A., Teixeira, M.R., Tengstrom, M., Teo, S.H., Terry, M.B., Teule, A., Thomassen, M., Thull, D.L., Tischkowitz, M., Toland, A.E., Tollenaar, R.A.E.M., Tomlinson, I., Torres, D., Torres-Mejia, G., Troester, M.A., Truong, T., Tung, N., Tzardi, M., Ulmer, H.U., Vachon, C.M., van Asperen, C.J., van der Kolk, L.E., van Rensburg, E.J., Vega, A., Viel, A., Vijai, J., Vogel, M.J., Wang, Q., Wappenschmidt, B., Weinberg, C.R., Weitzel, J.N., Wendt, C., Wildiers, H., Winqvist, R., Wolk, A., Wu, A.H., Yannoukakos, D., Zhang, Y., Zheng, W., Hunter, D., Pharoah, P.D.P., Chang-Claude, J., Garcia-Closas, M., Schmidt, M.K., Milne, R.L., Kristensen, V.N., French, J.D., Edwards, S.L., Antoniou, A.C., Chenevix-Trench, G., Simard, J., Easton, D.F., Kraft, P., Dunning, A.M. (2020). Fine-mapping of 150 breast cancer risk regions identifies 191 likely target genes. *Nat Genet* 52,56-73. DOI: 10.1038/s41588-019-0537-1

Feng, H., Gusev, A., Pasaniuc, B., Wu, L., Long, J., Abu-Full, Z., Aittomäki, K., Andrulis, I.L., Anton-Culver, H., Antoniou, A.C., Arason, A., Arndt, V., Aronson, K.J., Arun, B.K., Asseryanis, E., Auer, P.L., Azzollini, J., Balmana, J., Barkardottir, R.B., Barnes, D.R., Barrowdale, D., Beckmann, M.W., Behrens, S., Benitez, J., Bermisheva, M., Bialkowska, K., Blanco, A., Blomqvist, C., Boeckx, B., Bogdanova, N.V., Bojesen, S.E., Bolla, M.K., Bonanni, B., Borg, A., Brauch, H., Brenner, H., Briceno, I., Broeks, A., Brüning, T., Burwinkel, B., Cai, Q., Caldes, T., Caligo, M.A., Campbell, I., Canisius, S., Campa, D., Carter, B.D., Carter, J., Castelao, J.E., Chang-Claude, J., Chanock, S.J., Christiansen, H., Chung, W.K., Claes, K.B.M., Clarke, C.L., GEMO Study Collaborators, EMBRACE Collaborators, GC-HBOC study Collaborators, Couch, F.J., Cox, A., Cross, S.S., Cybulski, C., Czene, K., Daly, M.B., de la Hoya, M., De Leeneer, K., Dennis, J., Devilee, P., Diez, O., Domchek, S.M., Dörk, T., Dos-Santos-Silva, I., Dunning, A.M., Dwek, M., Eccles, D.M., Ejlertsen, B., Ellberg, C., Engel, C., Eriksson, M., Fasching, P.A., Fletcher, O., Flyger, H., Fostira, F., Friedman, E., Fritschi, L., Frost, D., Gabrielson, M., Ganz, P.A., Gapstur, S.M., Garber, J., Garcia-Closas, M., Garcia-Saenz, J.A., Gaudet, M.M., Giles, G.G., Glendon, G., Godwin, A.K., Goldberg, M.S., Goldgar, D.E., Gonzalez-Neira, A., Greene, M.H., Gronwald, J., Guenel, P., Haiman, C.A., Hall, P., Hamann, U., Hake, C., He, W., Heyworth, J., Hogervorst, F.B.L., Hollestelle, A., Hoening, M.J., Hoover, R.N., Hopper, J.L., Huang, G., Hulick, P.J., Humphreys, K., Ilyanov, E.N., ABCTB Investigators, HEBON Investigators, BCFR Investigators, OCGN Investigators, Isaacs, C., Jakimovska, M., Jakubowska, A., James, P., Janavicius, R., Jankowitz, R.C., John, E.M., Johnson, N., Joseph, V., Jung, A., Karlan, B.Y., Khusnutdinova, E., Kiiski, J.I., Konstantopoulou, I., Kristensen, V.N., Laitman, Y., Lambrechts, D., Lazaro, C., Leroux, D., Leslie, G., Lester, J., Lesueur, F., Lindor, N., Lindström, S., Lo, W.Y., Loud, J.T., Lubinski, J., Makalic, E., Mannermaa, A., Manoochehri, M., Manoukian, S., Margolin, S., Martens, J.W.M., Martinez, M.E., Matricardi, L., Maurer, T., Mavroudis, D., McGuffog, L., Meindl, A., Menon, U., Michailidou, K., Kapoor, P.M., Miller, A., Montagna, M., Moreno, F., Moserle, L., Mulligan, A.M., Muranen, T.A., Nathanson, K.L., Neuhausen, S.L., Nevanlinna, H., Nevelsteen, I., Nielsen, F.C., Nikitina-Zake, L., Offit, K., Olah, E., Olopade, O.I., Olsson, H., Osorio, A., Papp, J., Park-Simon, T.W., Parsons, M.T., Pedersen, I.S., Peixoto, A., Peterlongo, P., Peto, J., Pharoah, P.D.P., Phillips, K.A., Plaseska-Karanfilska, D., Poppe, B., Pradhan, N., Prajzandanc, K., Presneau, N., Punie, K., Pylkäs, K., Radice, P., Rantala, J., Rashid, M.U., Rennert, G., Risch, H.A., Robson, M., Romero, A., Saloustros, E., Sandler, D.P., Santos, C., Sawyer, E.J., Schmidt, M.K., Schmidt, D.F., Schmutzler, R.K., Schoemaker, M.J., Scott, R.J., Sharma, P., Shu, X.O., Simard, J., Singer, C.F., Skytte, A.B., Soucy, P., Southey, M.C., Spinelli, J.J., Spurdle, A.B., Stone, J., Swerdlow, A.J., Tapper, W.J., Taylor, J.A., Teixeira, M.R., Terry, M.B., Teule, A., Thomassen, M., Thöne, K., Thull, D.L., Tischkowitz, M., Toland, A.E., Tollenaar, R.A.E.M., Torres, D., Truong, T.,

Tung, N., Vachon, C.M., van Asperen, C.J., van den Ouweland, A.M.W., van Rensburg, E.J., Vega, A., Viel, A., Vieiro-Balo, P., Wang, Q., Wappenschmidt, B., Weinberg, C.R., Weitzel, J.N., Wendt, C., Winqvist, R., Yang, X.R., Yannoukakos, D., Zogas, A., Milne, R.L., Easton, D.F., Chenevix-Trench, G., Zheng, W., Kraft, P., Jiang, X. (2020). Transcriptome-wide association study of breast cancer risk by estrogen-receptor status *Genet Epidemiol* *44*,442-468. DOI: 10.1002/gepi.22288

Fichtner, A.S., Bubke, A., Rampoldi, F., Wilharm, A., Tan, L., Steinbrück, L., Schultze-Florey, C., von Kaisenberg, C., Prinz, I., Herrmann, T., Ravens, S. (2020). TCR repertoire analysis reveals phosphoantigen-induced polyclonal proliferation of Vgamma9Vdelta2 T cells in neonates and adults. *J Leukoc Biol* *107*,1023-1032. DOI: 10.1002/JLB.1MA0120-427RR

Flentje, M., Eismann, H., Holtje, M., Hagemann, V., Brodowski, L., von Kaisenberg, C. (2020). Transfer of an interprofessional emergency caesarean section training program: using questionnaire combined with outcome data of newborn. *Arch Gynecol Obstet* *303*,585-593. DOI: 10.1007/s00404-020-05617-z

Glubb, D.M., Thompson, D.J., Aben, K.K., Alsulimani, A., Amant, F., Annibaldi, D., Attia, J., Barricarte, A., Beckmann, M.W., Berchuck, A., Bermisheva, M., Bernardini, M.Q., Bischof, K., Borge, L., Bodelon, C., Brand, A.H., Brenton, J.D., Brinton, L.A., Bruinsma, F., Buchanan, D.D., Burghaus, S., Bützow, R., Cai, H., Carney, M.E., Chanock, S.J., Chen, C., Chen, X., Chen, Z., Cook, L.S., Cunningham, J.M., De Vivo, I., DeFazio, A., Doherty, J.A., Dörk, T., du Bois, A., Dunning, A.M., Durst, M., Edwards, T., Edwards, R.P., Ekici, A.B., Ewing, A., Fasching, P.A., Ferguson, S., Flanagan, J.M., Fostira, F., Fountzilas, G., Friedreich, C.M., Gao, B., Gaudet, M.M., Gawelko, J., Gentry-Maharaj, A., Giles, G.G., Glasspool, R., Goodman, M.T., Gronwald, J., Harris, H.R., Harter, P., Hein, A., Heitz, F., Hildebrandt, M.A.T., Hillemanns, P., Hogdall, E., Hogdall, C.K., Holliday, E.G., Huntsman, D.G., Huzarski, T., Jakubowska, A., Jensen, A., Jones, M.E., Karlan, B.Y., Karnezis, A., Kelley, J.L., Khusnutdinova, E., Killeen, J.L., Kjaer, S.K., Klapdor, R., Köbel, M., Konopka, B., Konstantopoulou, I., Kopperud, R.K., Koti, M., Kraft, P., Kupryjanczyk, J., Lambrechts, D., Larson, M.C., Le Marchand, L., Lele, S., Lester, J., Li, A.J., Liang, D., Liebrich, C., Lipworth, L., Lissowska, J., Lu, L., Lu, K.H., Macciotta, A., Mattiello, A., May, T., McAlpine, J.N., McGuire, V., McNeish, I.A., Menon, U., Modugno, F., Moysich, K.B., Nevanlinna, H., Odunsi, K., Olsson, H., Orsulic, S., Osorio, A., Palli, D., Park-Simon, T.W., Pearce, C.L., Pejovic, T., Per-muth, J.B., Podgorska, A., Ramus, S.J., Rebbeck, T.R., Riggan, M.J., Risch, H.A., Rothstein, J.H., Runnebaum, I.B., Scott, R.J., Sellers, T.A., Senz, J., Setiawan, V.W., Siddiqui, N., Sieh, W., Spiewankiewicz, B., Sutphen, R., Swerdlow, A.J., Szafron, L.M., Teo, S.H., Thompson, P.J., Thomsen, L.C.V., Titus, L., Tone, A., Tumino, R., Turman, C., Vanderstichele, A., Velez Edwards, D., Vergote, I., Vierkant, R.A., Wang, Z., Wang-Gohrke, S., Webb, P.M., White, E., Whittemore, A.S., Winham, S.J., Wu, X., Wu, A.H., Yannoukakos, D., Spurdle, A.B., O'Mara, T.A. (2021). Cross-cancer genome-wide association study of endometrial cancer and epithelial ovarian cancer identifies genetic risk regions associated with risk of both cancers *Cancer Epidemiol Biomarkers Prev* *30*,217-228. DOI: 10.1158/1055-9965.EPI-20-0739

Hachenberg, J., Sauerwald, A., Brunke, H., Ludwig, S., Scaal, M., Prescher, A., Eichler, C. (2021). Suturing methods in prolapse surgery: a biomechanical analysis *Int Urogynecol J* *32*,1539-1544. DOI: 10.1007/s00192-020-04609-6

Hasenburg, A., Sehouli, J., Lampe, B., Reuss, A., Schmalfeld, B., Belau, A.K., Bossart, M., Mahner, S., Hillemanns, P., Petry, U., du Bois, A., Herwig, U., Hilpert, F., Gropp-Meier, M., Hanf, V., Greimel, E., Wagner, U., Harter, P. (2020). LION-PAW (lymphadenectomy in ovarian neoplasm) sexual function assessment: a prospective sub-study of the LION trial *Int J Gynecol Cancer* *30*,1548-1553. DOI: 10.1136/ijgc-2020-001551

Jentschke, M., Lehmann, R., Drews, N., Hansel, A., Schmitz, M., Hillemanns, P. (2020). Psychological distress in cervical cancer screening: results from a German online survey. *Arch Gynecol Obstet* *302*,699-705. DOI: 10.1007/s00404-020-05661-9

Kamal, M., Lameiras, S., Deloger, M., Morel, A., Vacher, S., Leecerf, C., Dupain, C., Jeannot, E., Girard, E., Baulande, S., Dubot, C., Kenter, G., Jordanova, E.S., Berns, E.M.J.J., Bataillon, G., Popovic, M., Rouzier, R., Cacheux, W., Le Tourneau, C., Nicolas, A., Servant, N., Scholl, S.M., Bieche, I., RAIDS Consortium. (2021). Human papilloma virus (HPV) integration signature in Cervical Cancer: identification of MACROD2 gene as HPV hot spot integration site. *Br J Cancer* *124*,777-785. DOI: 10.1038/s41416-020-01153-4

Kamp, J.C., von Kaisenberg, C., Greve, S., Winter, L., Park, D.H., Fuge, J., Kühn, C., Hoeper, M.M., Olsson, K.M. (2021). Pregnancy in pulmonary arterial hypertension: Midterm outcomes of mothers and offspring *J Heart Lung Transplant* *40*,229-233. DOI: 10.1016/j.healun.2020.12.002

Kho, P.F., Amant, F., Annibaldi, D., Ashton, K., Attia, J., Auer, P.L., Beckmann, M.W., Black, A., Brinton, L., Buchanan, D.D., Chanock, S.J., Chen, C., Chen, M.M., Cheng, T.H.T., Cook, L.S., Crous-Bous, M., Czene, K., De Vivo, I., Dennis, J., Dörk, T., Dowdy, S.C., Dunning, A.M., Durst, M., Easton, D.F., Ekici, A.B., Fasching, P.A., Fridley, B.L., Friedreich, C.M., Garcia-Closas, M., Gaudet, M.M., Giles, G.G., Goode, E.L., Gorman, M., Haiman, C.A., Hall, P., Hankinson, S.E., Hein, A., Hillemanns, P., Hodgson, S., Hoivik, E.A., Holliday, E.G., Hunter, D.J., Jones, A., Kraft, P., Krakstad, C., Lambrechts, D., Le Marchand, L., Liang, X., Lindblom, A., Lissowska, J., Long, J., Lu, L., Magliocco, A.M., Martin, L., McEvoy, M., Milne, R.L., Mints, M., Nassir, R., Otton, G., Palles, C., Pooler, L., Proietto, T., Rebbeck, T.R., Renner, S.P., Risch, H.A., Rubner, M., Runnebaum, I., Sacerdote, C., Sarto, G.E., Schumacher, F., Scott, R.J., Setiawan, V.W., Shah, M., Sheng, X., Shu, X.O., Southey, M.C., Tham, E., Tomlinson, I., Trovik, J., Turman, C., Tyrer, J.P., Van Den Berg, D., Wang, Z., Wentzensen, N., Xia, L., Xiang, Y.B., Yang, H.P., Yu, H., Zheng, W., Webb, P.M., Thompson, D.J., Spurdle, A.B., Glubb, D.M., O'Mara, T.A. (2021). Mendelian randomization analyses suggest a role for cholesterol in the development of endometrial cancer. *Int J Cancer* *148*,307-319. DOI: 10.1002/ijc.33206

Klapdor, R., Hillemanns, P., Wölber, L., Jückstock, J., Hilpert, F., de Gregorio, N., Hasenburg, A., Sehouli, J., Fürst, S., Strauss, H., Baumann, K., Thiel, F., Mustea, A., Meier, W., Harter, P., Wimberger, P., Hanker, L., Schmalfeld, B., Mahner, S. (2020). Association between obesity and vulvar cancer recurrence: an analysis of the AGO-CaRE-1 study *Int J Gynecol Cancer* 30,920-926.

Klapdor, R., Weiss, C., Kuehnle, E., Kohls, F., von Ehr, J., Philippeit, A., Hille-Betz, U. (2020). Quality of Life after Bilateral and Contralateral Prophylactic Mastectomy with Implant Reconstruction. *Breast Care (Basel)* 15,519-526. DOI: 10.1159/000505449

Kohls, F., Gebauer, F., Flentje, M., Brodowski, L., von Kaisenberg, C.S., Jentschke, M. (2020). Current Approach for External Cephalic Version in Germany. *Geburtshilfe Frauenheilkd* 80,1041-1047. DOI: 10.1055/a-1127-8646

Kramer, I., Hooning, M.J., Mavaddat, N., Hauptmann, M., Keeman, R., Steyerberg, E.W., Giardiello, D., Antoniou, A.C., Pharoah, P.D.P., Canisius, S., Abu-Ful, Z., Andrulis, I.L., Anton-Culver, H., Aronson, K.J., Augustinsson, A., Becher, H., Beckmann, M.W., Behrens, S., Benitez, J., Bermisheva, M., Bogdanova, N.V., Bojesen, S.E., Bolla, M.K., Bonanni, B., Brauch, H., Bremer, M., Brucker, S.Y., Burwinkel, B., Castela, J.E., Chan, T.L., Chang-Claude, J., Chanock, S.J., Chenevix-Trench, G., Choi, J.Y., Clarke, C.L., NBCS Collaborators, Collee, J.M., Couch, F.J., Cox, A., Cross, S.S., Czene, K., Daly, M.B., Devilee, P., Dörk, T., Dos-Santos-Silva, I., Dunning, A.M., Dwek, M., Eccles, D.M., Evans, D.G., Fasching, P.A., Flyger, H., Gago-Dominguez, M., Garcia-Closas, M., Garcia-Saenz, J.A., Giles, G.G., Goldgar, D.E., Gonzalez-Neira, A., Haiman, C.A., Hakansson, N., Hamann, U., Hartman, M., Heemskerk-Gerritsen, B.A.M., Hollestelle, A., Hopper, J.L., Hou, M.F., Howell, A., ABCTB Investigators, kConFab Investigators, Ito, H., Jakimovska, M., Jakubowska, A., Janni, W., John, E.M., Jung, A., Kang, D., Kets, C.M., Khusnutdinova, E., Ko, Y.D., Kristensen, V.N., Kurian, A.W., Kwong, A., Lambrechts, D., Le Marchand, L., Li, J., Lindblom, A., Lubinski, J., Mannermaa, A., Manoochehri, M., Margolin, S., Matsuo, K., Mavroudis, D., Meindl, A., Milne, R.L., Mulligan, A.M., Murrinen, T.A., Neuhausen, S.L., Nevanlinna, H., Newman, W.G., Olshan, A.F., Olson, J.E., Olsson, H., Park-Simon, T.W., Peto, J., Petridis, C., Plaseska-Karanfilska, D., Presneau, N., Pylkas, K., Radice, P., Rennert, G., Romero, A., Roylance, R., Saloustros, E., Sawyer, E.J., Schmutzler, R.K., Schwentner, L., Scott, C., See, M.H., Shah, M., Shen, C.Y., Shu, X.O., Siesling, S., Slager, S., Sohn, C., Southey, M.C., Spinelli, J.J., Stone, J., Tapper, W.J., Tengstrom, M., Teo, S.H., Terry, M.B., Tollenaar, R.A.E.M., Tomlinson, I., Troester, M.A., Vachon, C.M., van Ongeval, C., van Veen, E.M., Winqvist, R., Wolk, A., Zheng, W., Ziogas, A., Easton, D.F., Hall, P., Schmidt, M.K. (2020). Breast Cancer Polygenic Risk Score and Contralateral Breast Cancer Risk *Am J Hum Genet* 107,837-848. DOI: 10.1016/j.ajhg.2020.09.001

Krüger, T.H.C., Schippert, C., Meyer, B. (2020). The Pharmacotherapy of Persistent Genital Arousal Disorder. *Curr Sex Health Rep* 12,34-39. DOI: 10.1007/s11930-020-00240-0

Laakmann, E., Witzel, I., Neunhoffer, T., Weide, R., Schmidt, M., Park-Simon, T.W., Möbus, V., Mundhenke, C., Polasik, A., Lübke, K., Hesse, T., Riecke, K., Thill, M., Fasching, P.A., Denkert, C., Fehm, T., Nekljudova, V., Rey, J., Loibl, S., Müller, V. (2020). Characteristics and Clinical Outcome of Breast Cancer Patients with Asymptomatic Brain Metastases. *Cancers (Basel)* 12,E2787 [pii]. DOI: 10.3390/cancers12102787

Liu, J., Prager-van der Smissen, W.J.C., Collee, J.M., Bolla, M.K., Wang, Q., Michailidou, K., Dennis, J., Ahearn, T.U., Aittomaki, K., Ambrosone, C.B., Andrulis, I.L., Anton-Culver, H., Antonenkova, N.N., Arndt, V., Arnold, N., Aronson, K.J., Augustinsson, A., Auvinen, P., Becher, H., Beckmann, M.W., Behrens, S., Bermisheva, M., Bernstein, L., Bogdanova, N.V., Bogdanova-Markov, N., Bojesen, S.E., Brauch, H., Brenner, H., Briceño, I., Brucker, S.Y., Brüning, T., Burwinkel, B., Cai, Q., Cai, H., Campa, D., Canzian, F., Castela, J.E., Chang-Claude, J., Chanock, S.J., Choi, J.Y., Christiaens, M., Clarke, C.L., NBCS Collaborators, Couch, F.J., Czene, K., Daly, M.B., Devilee, P., Dos-Santos-Silva, I., Dwek, M., Eccles, D.M., Eliassen, A.H., Fasching, P.A., Figueroa, J., Flyger, H., Fritschi, L., Gago-Dominguez, M., Gapstur, S.M., Garcia-Closas, M., Garcia-Saenz, J.A., Gaudet, M.M., Giles, G.G., Goldberg, M.S., Goldgar, D.E., Guenel, P., Haiman, C.A., Hakansson, N., Hall, P., Harrington, P.A., Hart, S.N., Hartman, M., Hillemanns, P., Hopper, J.L., Hou, M.F., Hunter, D.J., Huo, D., ABCTB Investigators, Ito, H., Iwasaki, M., Jakimovska, M., Jakubowska, A., John, E.M., Kaaks, R., Kang, D., Keeman, R., Khusnutdinova, E., Kim, S.W., Kraft, P., Kristensen, V.N., Kurian, A.W., Le Marchand, L., Li, J., Lindblom, A., Lophatananon, A., Luben, R.N., Lubinski, J., Mannermaa, A., Manoochehri, M., Manoukian, S., Margolin, S., Mariapun, S., Matsuo, K., Maurer, T., Mavroudis, D., Meindl, A., Menon, U., Milne, R.L., Muir, K., Mulligan, A.M., Neuhausen, S.L., Nevanlinna, H., Offit, K., Olopade, O.I., Olson, J.E., Olsson, H., Orr, N., Park, S.K., Peterlongo, P., Peto, J., Plaseska-Karanfilska, D., Presneau, N., Rack, B., Rau-Murthy, R., Rennert, G., Rennert, H.S., Rhenius, V., Romero, A., Ruebner, M., Saloustros, E., Schmutzler, R.K., Schneeweiss, A., Scott, C., Shah, M., Shen, C.Y., Shu, X.O., Simard, J., Sohn, C., Southey, M.C., Spinelli, J.J., Tamimi, R.M., Tapper, W.J., Teo, S.H., Terry, M.B., Torres, D., Truong, T., Untch, M., Vachon, C.M., van Asperen, C.J., Wolk, A., Yamaji, T., Zheng, W., Ziogas, A., Ziv, E., Torres-Mejia, G., Dörk, T., Swerdlow, A.J., Hamann, U., Schmidt, M.K., Dunning, A.M., Pharoah, P.D.P., Easton, D.F., Hoening, M.J., Martens, J.W.M., Hollestelle, A. (2020). Germline HOXB13 mutations p.G84E and p.R217C do not confer an increased breast cancer risk *Sci Rep* 10,9688. DOI: 10.1038/s41598-020-65665-y

Marnitz, S., Tsunoda, A.T., Martus, P., Vieira, M., Affonso Junior, R.J., Nunes, J., Budach, V., Hertel, H., Mustea, A., Sehouli, J., Scharf, J.P., Ulrich, U., Ebert, A., Piwonski, I., Kohler, C. (2020). Surgical versus clinical staging prior to primary chemoradiation in patients with cervical cancer FIGO stages IIB-IVA: oncologic results of a prospective randomized international multicenter (Uterus-11) intergroup study *Int J Gynecol Cancer* 30,1855-1861. DOI: 10.1136/ijgc-2020-001973

Meissner, L., Schürmann, P., Dörk, T., Hagemeyer, L., Klitschar, M. (2021). Genetic association study of fatal pulmonary embolism *Int J Legal Med* 135,143-151. DOI: 10.1007/s00414-020-02441-7

Melzer, C., Jacobs, R., Dittmar, T., Pich, A., von der Ohe, J., Yang, Y., Hass, R. (2020). Reversible Growth-Arrest of a Spontaneously-Derived Human MSC-Like Cell Line *Int J Mol Sci* 21,E4752. DOI: 10.3390/ijms21134752

- Melzer, C., Ohe, J.V., Hass, R. (2020). Anti-Tumor Effects of Exosomes Derived from Drug-Incubated Permanently Growing Human MSC Int J Mol Sci 21,E7311. DOI: 10.3390/ijms21197311
- Pecher, S.J., Potthast, A.B., von Versen-Höyneck, F., Das, A.M. (2020). Impact of Short-Term Hypoxia on Sirtuins as Regulatory Elements in HUVECs. J Clin Med 9,E2604 [pii]. DOI: 10.3390/jcm9082604
- Pecks, U., Kuschel, B., Mense, L., Oppelt, P., Rüdiger, M., CRONOS Network. (2020). Pregnancy and SARS-CoV-2 Infection in Germany-the CRONOS Registry. Dtsch Arztebl Int 117,841-842. DOI: 10.3238/arztebl.2020.0841
- Pfisterer, J., Shannon, C.M., Baumann, K., Rau, J., Harter, P., Joly, F., Sehouli, J., Canzler, U., Schmalfeldt, B., Dean, A.P., Hein, A., Zeimet, A.G., Hanker, L.C., Petit, T., Marme, F., El-Balat, A., Glasspool, R., de Gregorio, N., Mahner, S., Meniawy, T.M., Park-Simon, T.W., Mouret-Reynier, M.A., Costan, C., Meier, W., Reinthaller, A., Goh, J.C., L'Haridon, T., Baron Hay, S., Kommoss, S., du Bois, A., Kurtz, J.E., AGO-OVAR 2.21/ENGOT-ov 18 Investigators. (2020). Bevacizumab and platinum-based combinations for recurrent ovarian cancer: a randomised, open-label, phase 3 trial. Lancet Oncol 21,699-709. DOI: 10.1016/S1470-2045(20)30142-X
- Pogozhykh, O., Hofmann, N., Gryshkov, O., von Kaisenberg, C., Mueller, M., Glasmacher, B., Pogozhykh, D., Börgel, M., Blasczyk, R., Figueiredo, C. (2020). Repeated Freezing Procedures Preserve Structural and Functional Properties of Amniotic Membrane for Application in Ophthalmology Int J Mol Sci 21,E4029. DOI: 10.3390/ijms21114029
- Polaczek, R., Schürmann, P., Speith, L.M., Geffers, R., Dürst, M., Hillemanns, P., Park-Simon, T.W., Liebrich, C., Dörk, T. (2020). Germline variation of Ribonuclease H2 genes in ovarian cancer patients. J Ovarian Res 13,146. DOI: 10.1186/s13048-020-00753-1
- Portz, S., Stoll, K., Lundgren, I., Gross, M.M. (2021). Midwives and obstetricians' attitudes towards VBAC: Development and validation of the HCAV-scale Sex Reprod Healthc 27,100589. DOI: 10.1016/j.srh.2020.100589
- Ragamin, A., Yigit, G., Bousset, K., Beleggia, F., Verheijen, F.W., de Wit, M.Y., Strom, T.M., Dörk, T., Wollnik, B., Mancini, G.M.S. (2020). Human RAD50 deficiency: Confirmation of a distinctive phenotype. Am J Med Genet A 182,1378-1386. DOI: 10.1002/ajmg.a.61570
- Ramachandran, D., Schürmann, P., Mao, Q., Wang, Y., Bretschneider, L.M., Speith, L.M., Hülse, F., Enssen, J., Bousset, K., Jentschke, M., Böhmer, G., Strauss, H.G., Hirchenhain, C., Schmidmayr, M., Tarbiat, J., Runnebaum, I., Dürst, M., Hein, A., Koch, M., Ruebner, M., Ekici, A., Beckmann, M.W., Fasching, P.A., Luyten, A., Petry, K.U., Hillemanns, P., Dörk, T. (2020). Association of genomic variants at the Human Leukocyte Antigen locus with cervical cancer risk, HPV status, and gene expression. Int J Cancer 147,2458-2468. DOI: 10.1002/ijc.33171
- Röttger, M., Hertel, H., Kaukemüller, L., Brodowski, L., Flentje, M., Hillemanns, P., Klapdor, R. (2020). Sentinel lymph node biopsy in vulvar cancer: status, level of knowledge, and counseling in outpatient setting. Arch Gynecol Obstet 302,1001-1007. DOI: 10.1007/s00404-020-05701-4
- Schick, C., Spineli, L.M., Raio, L., Gross, M.M. (2020). First assessed cervical dilatation: is it associated with oxytocin augmentation during labour? A retrospective cohort study in a university hospital in Switzerland. Midwifery 85,102683. DOI: 10.1016/j.midw.2020.102683
- Schippert, C., Witte, Y., Bartels, J., Garcia-Rocha, G.J., Jentschke, M., Hillemanns, P., Kundu, S. (2020). Reproductive capacity and recurrence of disease after surgery for moderate and severe endometriosis - a retrospective single center analysis. BMC Womens Health 20,144. DOI: 10.1186/s12905-020-01016-3
- Schmidt, N., Schücker, K., Krause, I., Dörk, T., Klintschar, M., Hummel, S. (2020). Genome-wide SNP typing of ancient DNA: Determination of hair and eye color of Bronze Age humans from their skeletal remains Am J Phys Anthropol 172,99-109. DOI: 10.1002/ajpa.23996
- Slabik, C., Kalbarczyk, M., Danisch, S., Zeidler, R., Klawonn, F., Volk, V., Krönke, N., Feuerhake, F., Ferreira de Figueiredo, C., Blasczyk, R., Olbrich, H., Theobald, S.J., Schneider, A., Ganser, A., von Kaisenberg, C., Lienenklaus, S., Bleich, A., Hammerschmidt, W., Stripecke, R. (2020). CAR-T Cells Targeting Epstein-Barr Virus gp350 Validated in a Humanized Mouse Model of EBV Infection and Lymphoproliferative Disease Mol Ther Oncolytics 18,504-524. DOI: 10.1016/j.omto.2020.08.005
- Song, H., Dicks, E.M., Tyrer, J., Intermaggio, M., Chenevix-Trench, G., Bowtell, D.D., Traficante, N., Group, A., Brenton, J., Goranova, T., Hosking, K., Piskorz, A., van Oudenhoove, E., Doherty, J., Harris, H.R., Rossing, M.A., Duerst, M., Dörk, T., Bogdanova, N.V., Modugno, F., Moysich, K., Odunsi, K., Ness, R., Karlan, B.Y., Lester, J., Jensen, A., Kruger Kjaer, S., Hogdall, E., Campbell, I.G., Lazaro, C., Pujara, M.A., Cunningham, J., Vierkant, R., Winham, S.J., Hildebrandt, M., Huff, C., Li, D., Wu, X., Yu, Y., Permuth, J.B., Levine, D.A., Schildkraut, J.M., Riggan, M.J., Berchuck, A., Webb, P.M., Group, O.S., Cybulski, C., Gronwald, J., Jakubowska, A., Lubinski, J., Alsop, J., Harrington, P., Chan, I., Menon, U., Pearce, C.L., Wu, A.H., de Fazio, A., Kennedy, C.J., Goode, E., Ramus, S., Gayther, S., Pharoah, P. (2021). Population-based targeted sequencing of 54 candidate genes identifies PALB2 as a susceptibility gene for high-grade serous ovarian cancer J Med Genet 58,305-313. DOI: 10.1136/jmedgenet-2019-106739

Stenner, H.T., Eigendorf, J., Kerling, A., Kueck, M., Hanke, A.A., Boyen, J., Nelius, A.K., Melk, A., Boethig, D., Bara, C., Hilfiker, A., Berliner, D., Bauersachs, J., Hilfiker-Kleiner, D., Eberhard, J., Stiesch, M., Schippert, C., Haverich, A., Tegtbur, U., Haufe, S. (2020). Effects of six month personalized endurance training on work ability in middle-aged sedentary women: a secondary analysis of a randomized controlled trial. *J Occup Med Toxicol* 15,8. DOI: 10.1186/s12995-020-00261-4

Theobald, S.J., Kreer, C., Khailaie, S., Bonifacius, A., Eiz-Vesper, B., Figueiredo, C., Mach, M., Backovic, M., Ballmaier, M., Koenig, J., Olbrich, H., Schneider, A., Volk, V., Danisch, S., Gieselmann, L., Ercanoglu, M.S., Messerle, M., Kaisenberg, C.V., Witte, T., Klawonn, F., Meyer-Hermann, M., Klein, F., Stripecke, R. (2020). Repertoire characterization and validation of gB-specific human IgGs directly cloned from humanized mice vaccinated with dendritic cells and protected against HCMV PLoS Pathog 16,e1008560. DOI: 10.1371/journal.ppat.1008560

Tjokrowidjaja, A., Lee, C.K., Friedlander, M., Gebiski, V., Gladieff, L., Ledermann, J., Penson, R., Oza, A., Korach, J., Huzarski, T., Manso, L., Pisano, C., Asher, R., Lord, S.J., Kim, S.I., Lee, J.Y., Colombo, N., Park-Simon, T.W., Fujiwara, K., Sonke, G., Vergote, I., Kim, J.W., Pujade-Lauraine, E. (2020). Concordance between CA-125 and RECIST progression in patients with germline BRCA-mutated platinum-sensitive relapsed ovarian cancer treated in the SOLO2 trial with olaparib as maintenance therapy after response to chemotherapy *Eur J Cancer* 139,59-67. DOI: 10.1016/j.ejca.2020.08.021

Volk, V., Theobald, S.J., Danisch, S., Khailaie, S., Kalbarczyk, M., Schneider, A., Bialek-Waldmann, J., Krönke, N., Deng, Y., Eiz-Vesper, B., Dragon, A.C., von Kaisenberg, C., Lienenklaus, S., Bleich, A., Keck, J., Meyer-Hermann, M., Klawonn, F., Hammerschmidt, W., Delecluse, H.J., Münz, C., Feuerhake, F., Stripecke, R. (2021). PD-1 Blockade Aggravates Epstein-Barr Virus(+) Post-Transplant Lymphoproliferative Disorder in Humanized Mice Resulting in Central Nervous System Involvement and CD4(+) T Cell Dysregulations *Front Oncol* 10,614876. DOI: 10.3389/fonc.2020.614876

von Kaisenberg, C., Klaritsch, P., Ochsenbein-Köblle, N., Hodel, M.E., Nothacker, M., Hecher, K. (2021). Überwachung und Betreuung von Zwillingschwangerschaften (AWMF 015-087 S2e-Leitlinie). *Ultraschall Med* 42,367-378. DOI: 10.1055/a-1248-8896

Wiegel, R.E., Danser, A.H.J., Steegers-Theunissen, R.P.M., Laven, J.S.E., Willemsen, S.P., Baker, V.L., Steegers, E.A.P., von Versen-Höyneck, F. (2020). Determinants of Maternal Renin-Angiotensin-Aldosterone-System Activation in Early Pregnancy: Insights From Two Cohorts. *J Clin Endocrinol Metab* 105,dgaa582. DOI: 10.1210/clinem/dgaa582

Winkel, A., Jaimes, Y., Melzer, C., Dillschneider, P., Hartwig, H., Stiesch, M., von der Ohe, J., Strauss, S., Vogt, P.M., Hamm, A., Burmeister, L., Roger, Y., Elger, K., Floerkemeier, T., Weissinger, E.M., Pogozhykh, O., Müller, T., Selich, A., Rothe, M., Petri, S., Köhl, U., Hass, R., Hoffmann, A. (2020). Cell culture media notably influence properties of human mesenchymal stroma/stem-like cells from different tissues. *Cytherapy* 22,653-668. DOI: 10.1016/j.jcyt.2020.07.005

Woelber, L., Bommert, M., Prieske, K., Fischer, I., Zu Eulenburg, C., Vettorazzi, E., Harter, P., Jueckstock, J., Hilpert, F., de Gregorio, N., Iborra, S., Sehoul, J., Ignatov, A., Hillemanns, P., Fuerst, S., Strauss, H.G., Baumann, K., Beckmann, M., Mustea, A., Meier, W., Wimmerberger, P., Hanker, L., Canzler, U., Fehm, T., Luyten, A., Hellriegel, M., Kosse, J., Heiss, C., Hantschmann, P., Mallmann, P., Tanner, B., Pfisterer, J., Mahner, S., Schmalfeldt, B., Jaeger, A. (2020). Pelvic Lymphadenectomy in Vulvar Cancer - Does it make sense? *Geburtshilfe Frauenheilkd* 80,1221-1228. DOI: 10.1055/a-1120-0138

Zhang, H., Ahearn, T.U., Lecarpentier, J., Barnes, D., Beesley, J., Qi, G., Jiang, X., O'Mara, T.A., Zhao, N., Bolla, M.K., Dunning, A.M., Dennis, J., Wang, Q., Ful, Z.A., Aittomaki, K., Andrulis, I.L., Anton-Culver, H., Arndt, V., Aronson, K.J., Arun, B.K., Auer, P.L., Azzollini, J., Barrowdale, D., Becher, H., Beckmann, M.W., Behrens, S., Benitez, J., Bermisheva, M., Bialkowska, K., Blanco, A., Blomqvist, C., Bogdanova, N.V., Bojesen, S.E., Bonanni, B., Bondavalli, D., Borg, A., Brauch, H., Brenner, H., Briceno, I., Broeks, A., Brucker, S.Y., Bruning, T., Burwinkel, B., Buys, S.S., Byers, H., Caldes, T., Caligo, M.A., Calvello, M., Campa, D., Castela, J.E., Chang-Claude, J., Chanock, S.J., Christiaens, M., Christiansen, H., Chung, W.K., Claes, K.B.M., Clarke, C.L., Cornelissen, S., Couch, F.J., Cox, A., Cross, S.S., Czene, K., Daly, M.B., Devilee, P., Diez, O., Domchek, S.M., Dörk, T., Dwek, M., Eccles, D.M., Ekici, A.B., Evans, D.G., Fasching, P.A., Figueroa, J., Foretova, L., Fostira, F., Friedman, E., Frost, D., Gago-Dominguez, M., Gapstur, S.M., Garber, J., Garcia-Saenz, J.A., Gaudet, M.M., Gayther, S.A., Giles, G.G., Godwin, A.K., Goldberg, M.S., Goldgar, D.E., Gonzalez-Neira, A., Greene, M.H., Gronwald, J., Guenel, P., Haberle, L., Hahnen, E., Haiman, C.A., Hake, C.R., Hall, P., Hamann, U., Harkness, E.F., Heemskerk-Gerritsen, B.A.M., Hillemanns, P., Hogervorst, F.B.L., Holleczek, B., Hollestelle, A., Hoening, M.J., Hoover, R.N., Hopper, J.L., Howell, A., Huebner, H., Hulick, P.J., Ilyanov, E.N., kConFab Investigators, ABCB Investigators, Isaacs, C., Izatt, L., Jager, A., Jakimovska, M., Jakubowska, A., James, P., Janavicius, R., Janni, W., John, E.M., Jones, M.E., Jung, A., Kaaks, R., Kapoor, P.M., Karlan, B.Y., Keeman, R., Khan, S., Khusnutdinova, E., Kitahara, C.M., Ko, Y.D., Konstantopoulou, I., Koppert, L.B., Koutros, S., Kristensen, V.N., Laenkholm, A.V., Lambrechts, D., Larsson, S.C., Laurent-Puig, P., Lazaro, C., Lazarova, E., Lejbkovicz, F., Leslie, G., Lesueur, F., Lindblom, A., Lissowska, J., Lo, W.Y., Loud, J.T., Lubinski, J., Lukomska, A., MacInnis, R.J., Mannermaa, A., Manooch, M., Manoukian, S., Margolin, S., Martinez, M.E., Matricardi, L., McGuffog, L., McLean, C., Mebirouk, N., Meindl, A., Menon, U., Miller, A., Mingazheva, E., Montagna, M., Mulligan, A.M., Mulot, C., Muranen, T.A., Nathanson, K.L., Neuhausen, S.L., Nevanlinna, H., Neven, P., Newman, W.G., Nielsen, F.C., Nikitina-Zake, L., Nodora, J., Offit, K., Olah, E., Olopade, O.I., Olsson, H., Orr, N., Papi, B., Papp, J., Park-Simon, T.W., Parsons, M.T., Peissel, B., Peixoto, A., Peshkin, B., Peterlongo, P., Peto, J., Phillips, K.A., Piedmonte, M., Plaseska-Karanfilska, D., Prajzandanc, K., Prentice, R., Prokofyeva, D., Rack, B., Radice, P., Ramus, S.J., Rantal, J., Rashid, M.U., Rennert, G., Rennert, H.S., Risch, H.A., Romero, A., Rookus, M.A., Rubner, M., Rudiger, T., Saloustros, E., Sampson, S., Sandler, D.P., Sawyer, E.J., Scheuner, M.T., Schmutzler, R.K., Schneeweiss, A., Schoemaker, M.J., Schottker, B., Schurmann, P., Senter, L., Sharma, P., Sherman, M.E., Shu, X.O., Singer, C.F., Smichkoska, S., Soucy, P., Southey, M.C., Spinelli, J.J., Stone, J., Stoppa-

Lyonnet, D., EMBRACE Study, GEMO Study Collaborators, Swerdlow, A.J., Szabo, C.I., Tamimi, R.M., Tapper, W.J., Taylor, J.A., Teixeira, M.R., Terry, M., Thomassen, M., Thull, D.L., Tischkowitz, M., Toland, A.E., Tollenaar, R.A.E.M., Tomlinson, I., Torres, D., Troester, M.A., Truong, T., Tung, N., Untch, M., Vachon, C.M., van den Ouweland, A.M.W., van der Kolk, L.E., van Veen, E.M., vanRensburg, E.J., Vega, A., Wappenschmidt, B., Weinberg, C.R., Weitzel, J.N., Wildiers, H., Winqvist, R., Wolk, A., Yang, X.R., Yannoukakos, D., Zheng, W., Zorn, K.K., Milne, R.L., Kraft, P., Simard, J., Pharoah, P.D.P., Michailidou, K., Antoniou, A.C., Schmidt, M.K., Chenevix-Trench, G., Easton, D.F., Chatterjee, N., Garcia-Closas, M. (2020). Genome-wide association study identifies 32 novel breast cancer susceptibility loci from overall and subtype-specific analyses. *Nat Genet* 52,572-581. DOI: 10.1038/s41588-020-0609-2

Leitlinien von Fachgesellschaften

Ditsch, N., Untch, M., Kolberg-Liedtke, C., Jackisch, C., Krug, D., Friedrich, M., Janni, W., Müller, V., Albert, U.S., Banys-Paluchowski, M., Bauerfeind, I., Blohmer, J.U., Budach, W., Dall, P., Diel, I., Fallenberg, E.M., Fasching, P.A., Fehm, T., Gerber, B., Gluz, O., Hanf, V., Harbeck, N., Heil, J., Huober, J., Kreipe, H.H., Kuhn, T., Kümmel, S., Loibl, S., Lüftner, D., Lux, M., Maass, N., Moebus, V., Mundhenke, C., Park-Simon, T.W., Reimer, T., Rhiem, K., Rody, A., Schmidt, M., Schneeweiss, A., Solbach, C., Solomayer, E.F., Stickeler, E., Thomssen, C., Witzel, I., Wockel, A., Thill, M. (2020). AGO Recommendations for the Diagnosis and Treatment of Patients with Locally Advanced and Metastatic Breast Cancer: Update 2020. *Breast Care (Basel)* 15,294-309. DOI: 10.1159/000508736

Gimpel, C., Bergmann, C., Brinkert, F., Cetiner, M., Gembruch, U., Haffner, D., Kemper, M., König, J., Liebau, M., Maier, R.F., Oh, J., Pape, L., Riechardt, S., Rolle, U., Rossi, R., Stegmann, J., Vester, U., Kaisenberg, C.V., Weber, S., Schaefer, F. (2020). Nierenzysten und zystische Nierenerkrankungen bei Kindern (AWMF S2k-Leitlinie) *Klin Padiatr* 232,228-248. DOI: 10.1055/a-1179-0728

Übersichtsarbeiten

Dörk, T., Hillemanns, P., Tempfer, C., Brey, J., Fleisch, M.C. (2020). Genetic Susceptibility to Endometrial Cancer: Risk Factors and Clinical Management. *Cancers (Basel)* 12,E2407 [pii]. DOI: 10.3390/cancers12092407

Hass, R. (2020). Role of MSC in the Tumor Microenvironment. *Cancers (Basel)* 12,E2107 [pii]. DOI: 10.3390/cancers12082107

Hass, R., von der Ohe, J., Ungefroren, H. (2020). Impact of the Tumor Microenvironment on Tumor Heterogeneity and Consequences for Cancer Cell Plasticity and Stemness. *Cancers (Basel)* 12,E3716. DOI: 10.3390/cancers12123716

Hass, R., von der Ohe, J., Ungefroren, H. (2020). The Intimate Relationship Among EMT, MET and TME: A T(ransdifferenzierung) E(nhancing) M(ix) to Be Exploited for Therapeutic Purposes *Cancers (Basel)* 12,E3674. DOI: 10.3390/cancers12123674

Hillemanns, P., Hertel, H., Klapdor, R. (2020). Radical hysterectomy for early cervical cancer: what shall we do after the LACC trial? *Arch Gynecol Obstet* 302,289-292. DOI: 10.1007/s00404-020-05627-x

Jentschke, M., Kampers, J., Becker, J., Sibbertsen, P., Hillemanns, P. (2020). Prophylactic HPV vaccination after conization: A systematic review and meta-analysis. *Vaccine* 38,6402-6409. DOI: 10.1016/j.vaccine.2020.07.055

Melzer, C., Ohe, J.V., Hass, R. (2020). Altered Tumor Plasticity after Different Cancer Cell Fusions with MSC *Int J Mol Sci* 21,8347. DOI: 10.3390/ijms21218347

Schröder-Heurich, B., Springer, C.J.P., von Versen-Höyneck, F. (2020). Vitamin D Effects on the Immune System from Periconception through Pregnancy. *Nutrients* 12,E1432. DOI: 10.3390/nu12051432

Wang, Y., Xiang, Y., Xin, V.W., Wang, X.W., Peng, X.C., Liu, X.Q., Wang, D., Li, N., Cheng, J.T., Lyv, Y.N., Cui, S.Z., Ma, Z., Zhang, Q., Xin, H.W. (2020). Dendritic cell biology and its role in tumor immunotherapy. *J Hematol Oncol* 13,107. DOI: 10.1186/s13045-020-00939-6

Wiegel, R.E., von Versen-Höyneck, F., Steegers-Theunissen, R.P.M., Steegers, E.A.P., Danser, A.H.J. (2021). Prorenin periconceptionally and in pregnancy: Does it have a physiological role? *Mol Cell Endocrinol* 522,111118. DOI: 10.1016/j.mce.2020.111118

Zinsler, L.A., Stoll, K., Wieber, F., Pehlke-Milde, J., Gross, M.M. (2020). Changing behaviour in pregnant women: A scoping review. *Midwifery* 85,102680. DOI: 10.1016/j.midw.2020.102680

Case reports

Schröder, S., Wieland, B., Ohlenbusch, A., Yigit, G., Altmüller, J., Boltshauser, E., Dörk, T., Brockmann, K. (2020). Evidence of pathogenicity for the leaky splice variant c.1066-6T>G in ATM *Am J Med Genet A* 182,2971-2975. DOI: 10.1002/ajmg.a.61870

Comments

Hillemanns, P., Tempfer, C., Beckmann, M.W., Kupfers, V., Quaas, J. (2020). Statement of the AGO and AG-CPC on the Aftercare/Follow-up for Surgical Procedures of the Lower Genital Tract after the Introduction of a New Cancer Screening Guideline. *Geburtshilfe Frauenheilkd* 80,809-812. DOI: 10.1055/a-1193-5136

Editorials

Spineli, L.M., Pandis, N. (2020). Fixed-effect versus random-effects model in meta-regression analysis *Am J Orthod Dentofacial Orthop* 158,770-772. DOI: 10.1016/j.ajodo.2020.07.016

Promotionen

Gafarova, P. (2019). Genetische Untersuchungen zur Rolle regulatorischer Genvarianten für TP53 beim Endometriumkarzinom Dissertation, Medizinische Hochschule Hannover, 2020

Goldmann, G. (2019). Klinische Unterschiede zwischen invasiv duktalem und invasiv lobulärem Mammakarzinom zum Diagnosezeitpunkt: Daten aus dem Mammographie-Screening-Programm Bielefeld-Gütersloh. Dissertation, Medizinische Hochschule Hannover, 2020

Grimm, J. (2020). Analyse zu Häufigkeiten, Behandlungsmethoden und Rezidivraten von Vulvadysplasien im Behandlungsgut der Frauenklinik der MHH von 2005-2010 Dissertation, Medizinische Hochschule Hannover, 2020

Häckermann, K. (2019). Nutzen der partiellen HPV-Genotypisierung nach Konisation zervikaler Dysplasien Dissertation, Medizinische Hochschule Hannover, 2020

Iwanuk, C. (2019). Perioperative Morbidität sowie postoperative Fertilität und Schwangerschaftsoutcome nach laparoskopischer bzw. offener Myomenukleation. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Jungk, J. (2019). Einfluss von 3D-Ultraschall und Beschäftigungstherapie auf das psychische Befinden von langzeithospitalisierten Risikoschwangeren Dissertation, Medizinische Hochschule Hannover, 2020

Karakas, H. (2020). Peri- und postoperatives Management und Outcome bei gynäkologischen Patientinnen mit einer extremen Adipositas (Grad 3, BMI > 40 kg/m²). Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Pfeifer, K. (2019). Molekulargenetische Untersuchungen neuer Kandidatengene für Brustkrebs Dissertation, Medizinische Hochschule Hannover, 2020

Weiß, C.P. (2020). Lebensqualität und Patientenzufriedenheit nach bilateraler prophylaktischer Mastektomie und Simultanrekonstruktion. Dissertation, Medizinische Hochschule Hannover, 2020

Witte, Y.J. (2020). Rezidivhäufigkeit und postoperative Fertilität nach operativer Entfernung einer moderaten und schweren Endometriose (rASRM III und IV). Ergebnisse einer retrospektiven 11-Jahres-Erhebung. Dissertation, Medizinische Hochschule Hannover, 2020

Zachen, M.S. (2019). Sarkom-Risiko bei uterinen Eingriffen an der Medizinischen Hochschule Hannover Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Forschungs- und Lehreinheit Hebammenwissenschaft – 9210

Originalpublikationen

Clarke, M., Devane, D., Gross, M.M., Morano, S., Lundgren, I., Sinclair, M., Putman, K., Beech, B., Vehviläinen-Julkunen, K., Nieuwenhuijze, M., Wiseman, H., Smith, V., Daly, D., Savage, G., Newell, J., Simpkin, A., Grylka-Baeschlin, S., Healy, P., Nicoletti, J., Lalor, J., Carroll, M., van Limbeek, E., Nilsson, C., Stockdale, J., Fobelets, M., Begley, C. (2020). OptiBIRTH: a cluster randomised trial of a complex intervention to increase vaginal birth after caesarean section *BMC Pregnancy Childbirth* 20,143. DOI: 10.1186/s12884-020-2829-y

Daly, D., Minnie, K.C.S., Blignaut, A., Blix, E., Vika Nilsen, A.B., Dencker, A., Beeckman, K., Gross, M.M., Pehlke-Milde, J., Grylka-Baeschlin, S., Koenig-Bachmann, M., Clausen, J.A., Hadjigeorgiou, E., Morano, S., Iannuzzi, L., Baranowska, B., Kiersnowska, I., Uvnäs-Moberg, K. (2020). How much synthetic oxytocin is infused during labour? A review and analysis of regimens used in 12 countries. *PLoS One* 15,e0227941. DOI: 10.1371/journal.pone.0227941

Gomez-Escobar, L.G., Mora-Ochoa, H., Vargas Villanueva, A., Spineli, L., Sanclemente, G., Couban, R., Garcia, E., Chapman, E., Yepes-Nunez, J.J. (2020). Effectiveness and adverse events of topical and allergen immunotherapy for atopic dermatitis: a systematic review and network meta-analysis protocol. *Syst Rev* 9,222. DOI: 10.1186/s13643-020-01472-w

Portz, S., Stoll, K., Lundgren, I., Gross, M.M. (2021).Midwives and obstetricians' attitudes towards VBAC: Development and validation of the HCAV-scale Sex Reprod Healthc *27*,100589. DOI: 10.1016/j.srhc.2020.100589

Schick, C., Spineli, L.M., Raio, L., Gross, M.M. (2020).First assessed cervical dilatation: is it associated with oxytocin augmentation during labour? A retrospective cohort study in a university hospital in Switzerland. *Midwifery* *85*,102683. DOI: 10.1016/j.midw.2020.102683

Seijmonsbergen-Schermer, A.E., van den Akker, T., Rydahl, E., Beeckman, K., Bogaerts, A., Binfa, L., Frith, L., Gross, M.M., Misselwitz, B., Halfdansson, B., Daly, D., Corcoran, P., Calleja-Agius, J., Calleja, N., Gatt, M., Vika Nilsen, A.B., Declercq, E., Gissler, M., Heino, A., Lindgren, H., de Jonge, A. (2020).Variations in use of childbirth interventions in 13 high-income countries: A multinational cross-sectional study. *PLoS Med* *17*,e1003103. DOI: 10.1371/journal.pmed.1003103

Spineli, L.M., Kalyvas, C. (2020).Comparison of exclusion, imputation and modelling of missing binary outcome data in frequentist network meta-analysis *BMC Med Res Methodol* *20*,48. DOI: 10.1186/s12874-020-00929-9

Stavropoulos, A., Bertl, K., Spineli, L.M., Sculean, A., Cortellini, P., Tonetti, M. (2021).Medium- and Long-Term Clinical Benefits of Periodontal Regenerative/Reconstructive Procedures in Intra-bony Defects: Systematic Review and Network Meta-Analysis of Randomized Controlled Clinical Studies *J Clin Periodontol* *48*,410-430. DOI: 10.1111/jcpe.13409

Übersichtsarbeiten

Uvnas-Moberg, K., Gross, M.M., Agius, A., Downe, S., Calleja-Agius, J. (2020).Are There Epigenetic Oxytocin-Mediated Effects on the Mother and Infant during Physiological Childbirth? *Int J Mol Sci* *21*,E9503. DOI: 10.3390/ijms21249503

Zinsser, L.A., Stoll, K., Wieber, F., Pehlke-Milde, J., Gross, M.M. (2020).Changing behaviour in pregnant women: A scoping review. *Midwifery* *85*,102680. DOI: 10.1016/j.midw.2020.102680

Editorials

Spineli, L.M., Pandis, N. (2020).Exploring heterogeneity in meta-analysis: Subgroup analysis. Part 1 *Am J Orthod Dentofacial Orthop* *158*,302-304.e1. DOI: 10.1016/j.ajodo.2020.04.002

Spineli, L.M., Pandis, N. (2020).Fixed-effect versus random-effects model in meta-regression analysis *Am J Orthod Dentofacial Orthop* *158*,770-772. DOI: 10.1016/j.ajodo.2020.07.016

Spineli, L.M., Pandis, N. (2020).Prediction interval in random-effects meta-analysis *Am J Orthod Dentofacial Orthop* *157*,586-588. DOI: 10.1016/j.ajodo.2019.12.011

Spineli, L.M., Pandis, N. (2020).Problems and pitfalls in subgroup analysis and meta-regression *Am J Orthod Dentofacial Orthop* *158*,901-904. DOI: 10.1016/j.ajodo.2020.09.001

Spineli, L.M., Pandis, N. (2020).Exploring heterogeneity in meta-analysis: Meta-regression analysis. *Am J Orthod Dentofacial Orthop* *158*,623-625. DOI: 10.1016/j.ajodo.2020.07.002

Spineli, L.M., Pandis, N. (2020).Exploring heterogeneity in meta-analysis: Subgroup analysis. Part 2. *Am J Orthod Dentofacial Orthop* *158*,462-463. DOI: 10.1016/j.ajodo.2020.06.003

Spineli, L.M., Pandis, N. (2020).Statistical heterogeneity: Notion and estimation in meta-analysis *Am J Orthod Dentofacial Orthop* *157*,856-859.e2. DOI: 10.1016/j.ajodo.2020.03.009

Spineli, L.M., Pandis, N. (2020).The importance of careful selection between fixed-effect and random-effects models *Am J Orthod Dentofacial Orthop* *157*,432-433. DOI: 10.1016/j.ajodo.2019.12.003

Spineli, L.M., Pandis, N. (2021).Reporting bias: Notion, many faces and implications. *Am J Orthod Dentofacial Orthop* *159*,136-138. DOI: 10.1016/j.ajodo.2020.10.010

Institut für Diagnostische und Interventionelle Neuroradiologie – 8210

Originalpublikationen

Burggraaff, J., Liu, Y., Prieto, J.C., Simoes, J., de Sitter, A., Ruggieri, S., Brouwer, I., Lissenberg-Witte, B.I., Rocca, M.A., Valsasina, P., Ropele, S., Gasperini, C., Gallo, A., Pareto, D., Sastre-Garriga, J., Enzinger, C., Filippi, M., De Stefano, N., Ciccarelli, O., Hulst, H.E., Wattjes, M.P., Barkhof, F., Uitdehaag, B.M.J., Vrenken, H., Guttman, C.R.G., MAGNIMS Study Group. (2020). Manual and automated tissue segmentation confirm the impact of thalamus atrophy on cognition in multiple sclerosis: A multicenter study *Neuroimage Clin* 29,102549. DOI: 10.1016/j.nicl.2020.102549

Butryn, M., Neumann, J., Rolfes, L., Bartels, C., Wattjes, M.P., Mahmoudi, N., Seeliger, T., Konen, F.F., Thiele, T., Witte, T., Meuth, S.G., Skripuletz, T., Pawlitzki, M. (2020). Clinical, Radiological, and Laboratory Features of Spinal Cord Involvement in Primary Sjogren's Syndrome. *J Clin Med* 9. DOI: 10.3390/jcm9051482

Dekker, I., Schoonheim, M.M., Venkatraghavan, V., Eijlers, A.J.C., Brouwer, I., Bron, E.E., Klein, S., Wattjes, M.P., Wink, A.M., Geurts, J.J.G., Uitdehaag, B.M.J., Oxtoby, N.P., Alexander, D.C., Vrenken, H., Killestein, J., Barkhof, F., Wottschel, V. (2020). The sequence of structural, functional and cognitive changes in multiple sclerosis *Neuroimage Clin* 29,102550. DOI: 10.1016/j.nicl.2020.102550

Donnerstag, F., Götz, F., Dadak, M., Raab, P., Iglesias, E.C., Werlein, C., Lanfermann, H., Jonigk, D. (2021). Interventional stroke treatment - Is it also safe for arteries? Looking at thrombectomy wall damage through clot histology. *Interv Neuroradiol* 27,404-410. DOI: 10.1177/1591019920976673

Dragon, A.C., Zimmermann, K., Nerreter, T., Sandfort, D., Lahrberg, J., Klöss, S., Kloth, C., Mangare, C., Bonifacius, A., Tischer-Zimmermann, S., Blasczyk, R., Maecker-Kolhoff, B., Uchanska-Ziegler, B., Abken, H., Schambach, A., Hudecek, M., Eiz-Vesper, B. (2020). CAR-T cells and TRUCKs that recognize an EBNA-3C-derived epitope presented on HLA-B*35 control Epstein-Barr virus-associated lymphoproliferation *J Immunother Cancer* 8,e000736. DOI: 10.1136/jitc-2020-000736

Ellingsen, D.M., Beissner, F., Moher Alsady, T., Lazaridou, A., Paschali, M., Berry, M., Isaro, L., Grahl, A., Lee, J., Wasan, A.D., Edwards, R.R., Napadow, V. (2021). A picture is worth a 1000 words: linking fibromyalgia pain widespreadness from digital pain drawings with pain catastrophizing and brain cross-network connectivity *Pain* 162,1352-1363. DOI: 10.1097/j.pain.0000000000002134

Fu, T., Kliez, M., Nösel, P., Wegner, F., Schrader, C., Höglinger, G.U., Dadak, M., Mahmoudi, N., Lanfermann, H., Ding, X.Q. (2020). Brain Morphological Alterations Are Detected in Early-Stage Parkinson's Disease with MRI Morphometry *J Neuroimaging* 30,786-792. DOI: 10.1111/jon.12769

Fujimori, J., Uryu, K., Fujihara, K., Wattjes, M.P., Suzuki, C., Nakashima, I. (2020). Measurements of the corpus callosum index and fractional anisotropy of the corpus callosum and their cutoff values are useful to assess global brain volume loss in multiple sclerosis *Mult Scler Relat Disord* 45,102388. DOI: 10.1016/j.msard.2020.102388

Kahl, K.G., Atalay, S., Maudsley, A.A., Sheriff, S., Cummings, A., Frieling, H., Schmitz, B., Lanfermann, H., Ding, X.Q. (2020). Altered neurometabolism in major depressive disorder: A whole brain (1)H-magnetic resonance spectroscopic imaging study at 3T *Prog Neuropsychopharmacol Biol Psychiatry* 101,109916. DOI: 10.1016/j.pnpbp.2020.109916

Kuderer, S., Helmert, E., Szöke, H., Joos, S., Kohl, M., Svaldi, J., Beissner, F., Andrasik, F., Vagedes, J. (2020). Increasing Warmth in Adolescents with Anorexia Nervosa: A Randomized Controlled Crossover Trial Examining the Efficacy of Mustard and Ginger Footbaths. *Evid Based Complement Alternat Med* 2020,2416582. DOI: 10.1155/2020/2416582

Manuel, J., Färber, N., Gerlach, D.A., Heusser, K., Jordan, J., Tank, J., Beissner, F. (2020). Deciphering the neural signature of human cardiovascular regulation *Elife* 9. DOI: 10.7554/elife.55316

Möhn, N., Mahjoub, S., Gutzmer, R., Satzger, I., Beutel, G., Ivanyi, P., Golpon, H., Wattjes, M.P., Stangel, M., Skripuletz, T. (2020). Diagnosis and Differential Diagnosis of Neurological Adverse Events during Immune Checkpoint Inhibitor Therapy *J Oncol* 2020. DOI: 10.1155/2020/8865054

Osmanovic, A., Widjaja, M., Förster, A., Weder, J., Wattjes, M.P., Lange, I., Sarikidi, A., Auber, B., Raab, P., Christians, A., Preller, M., Petri, S., Weber, R.G. (2020).SPG7 mutations in amyotrophic lateral sclerosis: a genetic link to hereditary spastic paraplegia *J Neurol* 267,2732-2743. DOI: 10.1007/s00415-020-09861-w

Oudega, M.L., Siddiqui, A., Wattjes, M.P., Barkhof, F., Kate, M.T., Muller, M., Bouckaert, F., Vandenbulcke, M., De Winter, F.L., Sienaert, P., Stek, M.L., Comijs, H.C., Korten, N.C.M., Emsell, L., Eikelenboom, P., Rhebergen, D., van Exel, E., Dols, A. (2021).Are Apathy and Depressive Symptoms Related to Vascular White Matter Hyperintensities in Severe Late Life Depression? *J Geriatr Psychiatry Neurol* 34,21-28. DOI: 10.1177/0891988720901783

Pflugrad, H., Nösel, P., Ding, X., Schmitz, B., Lanfermann, H., Barg-Hock, H., Klempnauer, J., Schiffer, M., Weissenborn, K. (2020).Brain function and metabolism in patients with long-term tacrolimus therapy after kidney transplantation in comparison to patients after liver transplantation. *PLoS One* 15,e0229759. DOI: 10.1371/journal.pone.0229759

Rossberg, W., Goetz, F., Timm, M.E., Lenarz, T., Helmstaedter, V. (2020).Intratympanic application of triamcinolone in sudden hearing loss-radiologic anatomy in cone beam CT and its' correlation to clinical outcome *Eur Arch Otorhinolaryngol* 277,1931-1937. DOI: 10.1007/s00405-020-05920-0

Rossberg, W., Timm, M., Matin, F., Zanoni, A., Krüger, C., Giourgas, A., Bültmann, E., Lenarz, T., Kral, A., Lesinski-Schiedat, A. (2021).First results of electrode reimplantation and its hypothetical dependence from artificial brain maturation *Eur Arch Otorhinolaryngol* 278,951-958. DOI: 10.1007/s00405-020-06125-1

Styczen, H., Maus, V., Tsogkas, I., Meila, D., Bester, M., Buhk, J.H., Psychogios, M.N. (2020).Initial Experience with Transradial Access for Cerebrovascular Procedures: Is It Feasible and Safe? *World Neurosurg* 136,e593-e600. DOI: 10.1016/j.wneu.2020.01.078

Ulugut Erkoyun, H., Groot, C., Heilbron, R., Nelissen, A., van Rossum, J., Jutten, R., Koene, T., van der Flier, W.M., Wattjes, M.P., Scheltens, P., Ossenkoppele, R., Barkhof, F., Pijnenburg, Y. (2020).A clinical-radiological framework of the right temporal variant of frontotemporal dementia *Brain* 143,2831-2843. DOI: 10.1093/brain/awaa225

van Faals, N.L., Dekker, I., Balk, L.J., Moraal, B., Barkhof, F., Uitdehaag, B.M.J., Killestein, J., Wattjes, M.P. (2020).Clinico-radiological dissociation of disease activity in MS patients: frequency and clinical relevance *J Neurol* 267,3287-3291. DOI: 10.1007/s00415-020-09991-1

van Kempen, Z.L.E., Hoogervorst, E.L.J., Wattjes, M.P., Kalkers, N.F., Mostert, J.P., Lissenberg-Witte, B.I., de Vries, A., Ten Brinke, A., van Oosten, B.W., Barkhof, F., Teunissen, C.E., Uitdehaag, B.M.J., Rispens, T., Killestein, J. (2020).Personalized extended interval dosing of natalizumab in MS: A prospective multicenter trial *Neurology* 95,e745-e754. DOI: 10.1212/WNL.0000000000000995

Wagner, S., Lanfermann, H., Wohlgemuth, W.A., Gufler, H. (2020).Effects of effective stereotactic radiosurgery for brain metastases on the adjacent brain parenchyma *Br J Cancer* 123,54-60. DOI: 10.1038/s41416-020-0853-3

Weber, M.A., Nagel, A.M., Kan, H.E., Wattjes, M.P. (2020).Quantitative Imaging in Muscle Diseases with Focus on Non-proton MRI and Other Advanced MRI Techniques *Semin Musculoskelet Radiol* 24,402-412. DOI: 10.1055/s-0040-1712955

Wijburg, M.T., Warnke, C., Killestein, J., Wattjes, M.P. (2020).Application of "Mentzer's PML case definition" to natalizumab-treated patients in the setting of strict MRI-based pharmacovigilance *J Neurol* 267,2599-2602. DOI: 10.1007/s00415-020-09880-7

Wittfoth, D., Pfeiffer, A., Bohne, M., Lanfermann, H., Wittfoth, M. (2020).Emotion regulation through bifocal processing of fear inducing and disgust inducing stimuli *BMC Neurosci* 21,47. DOI: 10.1186/s12868-020-00597-x

Übersichtsarbeiten

Beissner, F. (2020).Therapeutic Sensations: A New Unifying Concept *Evid Based Complement Alternat Med* DOI: 10.1155/2020/7630190

Rovira, A., Wattjes, M.P. (2020).Gadolinium should always be used to assess disease activity in MS - No. *Mult Scler* 26,767-769. DOI: 10.1177/1352458520914819

Saver, J.L., Chapot, R., Agid, R., Hassan, A., Jadhav, A.P., Liebeskind, D.S., Lobotesis, K., Meila, D., Meyer, L., Raphaeli, G., Gupta, R., Distal Thrombectomy Summit Group* dagger. (2020).Thrombectomy for Distal, Medium Vessel Occlusions: A Consensus Statement on Present Knowledge and Promising Directions *Stroke* 51,2872-2884. DOI: 10.1161/STROKEAHA.120.028956

Case reports

Goeraci, Y., Schweitzer, F., Wellstein, A., Silling, S., Borchmann, S., von Tresckow, B., Adams, O., Martin, R., Schlamann, M., Schroeter, M., Fink, G.R., Wattjes, M.P., Warnke, C. (2020).Clearance of JC polyomavirus from cerebrospinal fluid following treatment with

interleukin-2 and pembrolizumab in an individual with progressive multifocal leukoencephalopathy and no underlying immune deficiency syndrome *Eur J Neurol* 27,2375-2377. DOI: 10.1111/ene.14435

Möhn, N., Saker, F., Bonda, V., Respondek, G., Bachmann, M., Stoll, M., Wattjes, M.P., Stangel, M., Skripuletz, T. (2020). Mild COVID-19 symptoms despite treatment with teriflunomide and high-dose methylprednisolone due to multiple sclerosis relapse *J Neurol* 267,2803-2805. DOI: 10.1007/s00415-020-09921-1

Toorop, A.A., van Lierop, Z.Y.G., Strijbis, E.E.M., Teunissen, C.E., Petzold, A., Wattjes, M.P., Barkhof, F., de Jong, B.A., van Kempen, Z.L.E., Killestein, J. (2020). Mild progressive multifocal leukoencephalopathy after switching from natalizumab to ocrelizumab. *Neurol Neuroimmunol Neuroinflamm* 8,e904 [pii]. DOI: 10.1212/NXI.0000000000000904

Walter, C., Schmid, G., Meila, D., Sobesky, J. (2020). Collateral Activation of the Early Temporal Branch - A Neurosonological Sign of Distal M1 Middle Cerebral Artery Occlusion *Ultrasound Int Open* 6,E41-E43. DOI: 10.1055/a-1225-4357

Editorials

Napadow, V., Beissner, F., Lin, Y., Chae, Y., Harris, R.E. (2020). Editorial: Neural Substrates of Acupuncture: From Peripheral to Central Nervous System Mechanisms *Front Neurosci* 13,1419. DOI: 10.3389/fnins.2019.01419

Promotionen

Abu-Fares, O. (2020). Vergleich der Time of flight MR-Angiographie mit konventioneller versus compressed sensing (sparse) Technik zur Detektion intrakranieller steno-okklusiver Veränderungen: qualitative und quantitative Beurteilung des Circulus arteriosus Willisii bei Patienten mit Verdacht auf einen akuten Schlaganfall bzw. eine Vaskulitis : eine prospektive Studie. Dissertation, Medizinische Hochschule Hannover, 2020

Dombert, A.P. (2019). Auswirkungen der durch quantitative Suszeptibilitätskartierung (QSM) gemessenen magnetischen Suszeptibilität auf die Diffusions-Kurtosis-Bildgebung (DKI) und Wiederholbarkeit der Messmethoden. Dissertation, Medizinische Hochschule Hannover, 2020

Fu, T. (2020). Clinically applicable quantitative magnetic resonance morphologic measurements of grey matter changes in ageing adults and in patients with neurodegenerative diseases. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Gerlach, D. (2020). Arterial baroreflex assessed with pharmacological testing during functional MRI of the human brainstem Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Göhner, F.D. (2019). Infratentorielle Hirnentwicklung: T2-Relaxationszeiten bei 3 Tesla Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Hirt, L.A. (2019). Auswirkungen qualitativer Aspekte von Körperbewegung auf die Hauttemperatur: eine randomisierte Studie zur Eurythmie Therapie. Dissertation, Medizinische Hochschule Hannover, 2020

Maghsudi, H. (2020). Altersabhängige metabolische Veränderungen bis zur 7. Dekade im gesunden alternden Gehirn : eine in vivo Studie mittels Ganzhirn-1H- Magnetresonanztomographie-Bildgebung. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Neubert, T. (2020). Aufnahme und quantitative Auswertung von Zeichnungen körperlicher Symptome und Untersuchungsbefunde mittels Tablet-PC. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Institut für Diagnostische und Interventionelle Radiologie – 8220

Originalpublikationen

Alikhani, B., Renne, J., Maschke, S., Hinrichs, J.B., Wacker, F.K., Werncke, T. (2021). Einfluss der Patientenausrichtung auf die Bildqualität in der C-Bogen-Computertomografie - Evaluation mithilfe eines ACR-Phantoms *Röfo* 193,417-426. DOI: 10.1055/a-1238-2802

Becker, L.S., Maschke, S.K., Dewald, C.L.A., Meine, T.C., Winther, H.B.M., Kirstein, M.M., Kloeckner, R., Meyer, B.C., Wacker, F., Hinrichs, J.B. (2021). Two-dimensional parametric parenchymal blood flow in transarterial chemoembolisation for hepatocellular carcinoma: perfusion change quantification and tumour response prediction at 3 months post-intervention *Clin Radiol* 76,160.e27-160.e33. DOI: 10.1016/j.crad.2020.09.012

- Becker, L.S., Stahl, K., Meine, T.C., von Falck, C., Meyer, B.C., Dewald, C.L.A., Rittgerodt, N., Busch, M., David, S., Wacker, F., Hinrichs, J.B. (2020). Non-occlusive mesenteric ischemia (NOMI): evaluation of 2D-perfusion angiography (2D-PA) for early treatment response assessment *Abdom Radiol (NY)* *45*,3342-3351. DOI: 10.1007/s00261-020-02457-y
- Couch, M.J., Munidas, S., Rayment, J.H., Voskrebenev, A., Seethamraju, R.T., Vogel-Claussen, J., Ratjen, F., Santyr, G. (2021). Comparison of Functional Free-Breathing Pulmonary (1)H and Hyperpolarized (129)Xe Magnetic Resonance Imaging in Pediatric Cystic Fibrosis. *Acad Radiol* *28*,e209-e218. DOI: 10.1016/j.acra.2020.05.008
- Czerner, C.P., Schoenfeld, C., Cebotari, S., Renne, J., Kaireit, T.F., Winther, H.B., Pöhler, G.H., Olsson, K.M., Hoepfer, M.M., Wacker, F., Vogel-Claussen, J. (2020). Perioperative CTEPH patient monitoring with 2D phase-contrast MRI reflects clinical, cardiac and pulmonary perfusion changes after pulmonary endarterectomy *PLoS One* *15*,e0238171. DOI: 10.1371/journal.pone.0238171
- den Exter, P.L., Kroft, L.J.M., Gonsalves, C., Le Gal, G., Schaefer-Prokop, C.M., Carrier, M., Huisman, M.V., Klok, F.A., Meijboom, L., Beenen, L.F., de Roos, A., Hartmann, I., Dennie, C., Revel, M.P., Haramati, L., van Beek, E., Sreaton, N., Ferretti, G., Ghaye, B., Das, M., White, C., Pena Fernandez, E., Paul, N., Vlahos, I., Renapurkar, R.D., Ravenel, J., Kanne, J., Abbara, S., Remy-Jardin, M., Geurts, B., Frauenfelder, T., Sverzellati, N., Prosch, H., Goo, J.M., Vogel-Claussen, J., MacMahon, P.J., Bhalla, S., Kahn, S., Shivakumar, S., Wells, P., Rodger, M., Castellucci, L., Duffett, L., Delluc, A., Siegal, D., Lazo-Langner, A., Wu, C., Lee, A., Garcia, D., Zwicker, J., Aujesky, D., Jimenez, D., Righini, M., Blondon, M., Ay, C., Barco, S., Kamphuisen, P.W., Ferreira, M., Sanchez, O., Moores, L.K., Tromeur, C., Ageno, W., Hunt, B., Prandoni, P., Monreal, M., Crowther, M., Roy, P.M., Pabinger, I., Donadini, M.P., Moustafa, F., Jara-Palomares, L., Pedroc, R., Bertoletti, L., Verhamme, P., Eikenboom, H., van der Meer, F., Büller, H.R., van Es, N. (2020). Establishing diagnostic criteria and treatment of subsegmental pulmonary embolism: A Delphi analysis of experts *Res Pract Thromb Haemost* *4*,1251-1261. DOI: 10.1002/rth2.12422
- Derlin, K., Hellms, S., Gutberlet, M., Peperhove, M., Jang, M.S., Greite, R., Hartung, D., Derlin, T., Fegbeutel, C., Tudorache, I., Jüttner, B., Wiese, B., Lichtinghagen, R., Haller, H., Haverich, A., Wacker, F., Warnecke, G., Gueler, F. (2020). Application of MR diffusion imaging for non-invasive assessment of acute kidney injury after lung transplantation *Medicine (Baltimore)* *99*,e22445. DOI: 10.1097/MD.00000000000022445
- Derlin, T., Jaeger, B., Jonigk, D., Apel, R., Freise, J., Shin, H.O., Weiberg, D., Warnecke, G., Ross, T.L., Wester, H.J., Seeliger, B., Welte, T., Bengel, F.M., Prasse, A. (2021). Clinical Molecular Imaging of Pulmonary CXCR4 Expression to Predict Outcome of Pirfenidone Treatment in Idiopathic Pulmonary Fibrosis *Chest* *159*,1094-1106. DOI: 10.1016/j.chest.2020.08.2043
- Dettmer, S., Schneidewind, S., Fischer, V., Derlin, K., Schneider, N., Wacker, F., Afshar, K. (2020). Training zur strukturierten Befundung von Radiographien des Thorax mit OSCE-Prüfung : Ergebnisse einer Machbarkeitsstudie und Follow-up-Befragung. *Radiologe* *60*,839-849. DOI: 10.1007/s00117-020-00684-4
- Dewald, C.L.A., Becker, L.S., Maschke, S.K., Meine, T.C., Alten, T.A., Kirstein, M.M., Vogel, A., Wacker, F.K., Meyer, B.C., Hinrichs, J.B. (2020). Percutaneous isolated hepatic perfusion (chemosaturation) with melphalan following right hemihepatectomy in patients with cholangiocarcinoma and metastatic uveal melanoma: peri- and post-interventional adverse events and therapy response compared to a matched group without prior liver surgery *Clin Exp Metastasis* *37*,683-692. DOI: 10.1007/s10585-020-10057-9
- Dewald, C.L.A., Becker, L.S., Maschke, S.K., Meine, T.C., Meyer, B.C., Wacker, F.K., Hinrichs, J.B. (2021). 2D-Perfusion Angiography Using Carbon Dioxide (CO₂): A Feasible Tool to Monitor Immediate Treatment Response to Endovascular Therapy of Peripheral Arterial Disease? *Cardiovasc Intervent Radiol* *44*,635-641. DOI: 10.1007/s00270-020-02722-z
- Elsharkawy, M., Vestring, T., Raatschen, H.J. (2020). A ten-year, single-center experience: Concordance between breast core needle biopsy/vacuum-assisted biopsy and postoperative histopathology in B3 and B5a cases. *PLoS One* *15*,e0233574. DOI: 10.1371/journal.pone.0233574
- Fehrmann, M.L., Schegerer, A., Werncke, T., Schlattl, H. (2020). Comparison of Experimental and Numerical Methods of Patient Dose Estimations in Ct using Anthropomorphic Models. *Radiat Prot Dosimetry* *190*,71-83. DOI: 10.1093/raddos/ncaa070
- Feldhaus, F.W., Böning, G., Kahn, J., Fehrenbach, U., Maurer, M., Renz, D., Streitparth, F. (2020). Improvement of image quality and diagnostic confidence using Smart MAR - a projection-based CT protocol in patients with orthopedic metallic implants in hip, spine, and shoulder *Acta Radiol* *67*,1421-1430. DOI: 10.1177/0284185120903446
- Fuhrmann, C., Struck, J.P., Ivanyi, P., Kramer, M.W., Hupe, M.C., Hensen, B., Fürschke, A., Peters, I., Merseburger, A.S., Kuczyk, M.A., von Klot, C.J. (2020). Checkpoint Inhibition for Metastatic Urothelial Carcinoma After Chemotherapy-Real-World Clinical Impressions and Comparative Review of the Literature *Front Oncol* *10*,808. DOI: 10.3389/fonc.2020.00808

- Glandorf, J., Klimes, F., Voskrebenez, A., Gutberlet, M., Behrendt, L., Crisosto, C., Wacker, F., Ciet, P., Wild, J.M., Vogel-Claussen, J. (2020). Comparison of phase-resolved functional lung (PREFUL) MRI derived perfusion and ventilation parameters at 1.5T and 3T in healthy volunteers *PLoS One* *15*; DOI: 10.1371/journal.pone.0244638
- Greite, R., Derlin, K., Hensen, B., Thorenz, A., Rong, S., Chen, R., Hellms, S., Jang, M.S., Bräsen, J.H., Meier, M., Willenberg, I., Immenschuh, S., Haller, H., Luft, F.C., Panigrahy, D., Hwang, S.H., Hammock, B.D., Schebb, N.H., Gueler, F. (2020). Early antihypertensive treatment and ischemia-induced acute kidney injury. *Am J Physiol Renal Physiol* *319*; F563-F570. DOI: 10.1152/ajprenal.00078.2020
- Hahn, F., Müller, L., Mähringer-Kunz, A., Schotten, S., Düber, C., Hinrichs, J.B., Maschke, S.K., Galle, P.R., Bartsch, F., Lang, H., Weinmann, A., Kloeckner, R. (2020). Risk prediction in intrahepatic cholangiocarcinoma: Direct comparison of the MEGNA score and the 8th edition of the UICC/AJCC Cancer staging system *PLoS One* *15*; e0228501. DOI: 10.1371/journal.pone.0228501
- Jamali, L., Alikhani, B., Getzin, T., Ringe, K.I., Wacker, F.K., Raatschen, H.J. (2020). Arterial attenuation in individualized computed tomography pulmonary angiography injection protocol adjusted based on the patient's body mass index *J Res Med Sci* *25*; 94. DOI: 10.4103/jrms.JRMS_690_19
- Kaireit, T.F., Kern, A., Voskrebenez, A., Pöhler, G.H., Klimes, F., Behrendt, L., Gutberlet, M., Moher-Alsady, T., Dittrich, A.M., Wacker, F., Hohlfeld, J., Vogel-Claussen, J. (2021). Flow Volume Loop and Regional Ventilation Assessment Using Phase-Resolved Functional Lung (PREFUL) MRI: Comparison With (129) Xenon Ventilation MRI and Lung Function Testing *J Magn Reson Imaging* *53*; 1092-1105. DOI: 10.1002/jmri.27452
- Kern, A.L., Gutberlet, M., Moher Alsady, T., Welte, T., Wacker, F., Hohlfeld, J.M., Vogel-Claussen, J. (2020). Investigating short-time diffusion of hyperpolarized (129) Xe in lung air spaces and tissue: A feasibility study in chronic obstructive pulmonary disease patients *Magn Reson Med* *84*; 2133-2146. DOI: 10.1002/mrm.28264
- Kirstein, M.M., Scheiner, B., Marwede, T., Wolf, C., Voigtländer, T., Semmler, G., Wacker, F., Manns, M.P., Hinrichs, J.B., Pinter, M., Vogel, A. (2020). Sequential systemic treatment in patients with hepatocellular carcinoma. *Aliment Pharmacol Ther* *52*; 205-212. DOI: 10.1111/apt.15789
- Klimes, F., Voskrebenez, A., Gutberlet, M., Kern, A.L., Behrendt, L., Grimm, R., Suhling, H., Crisosto, C.G., Kaireit, T.F., Pöhler, G.H., Glandorf, J., Wacker, F., Vogel-Claussen, J. (2021). 3D phase-resolved functional lung ventilation MR imaging in healthy volunteers and patients with chronic pulmonary disease *Magn Reson Med* *85*; 912-925. DOI: 10.1002/mrm.28482
- Klungsoyr, J.A., Vagstad, T., Ferle, M., Drogset, J.O., Hoff, S.R., Dalen, A.F., Hurschler, C., von Falck, C., Klungsoyr, P. (2021). The novel arthroscopic subscapular quadriceps tendon-bone sling procedure provides increased stability in shoulder cadavers with severe glenoid bone loss *Knee Surg Sports Traumatol Arthrosc* *29*; 170-180. DOI: 10.1007/s00167-020-05900-1
- Kovacs, A., Bücker, A., Grimm, M.O., Habermann, C.R., Katoh, M., Massmann, A., Mahnken, A.H., Meyer, B.C., Moche, M., Reimer, P., Teichgräber, U., Wacker, F.K., DeGIR Science Steering Group and the DeGIR Board. (2020). Positionspapier der Deutschen Gesellschaft für Interventionsradiologie (DeGIR) zur Prostataarterienembolisation *Röfo* *192*; 835-846. DOI: 10.1055/a-1183-5438
- Krüger, T.H.C., Schippert, C., Meyer, B. (2020). The Pharmacotherapy of Persistent Genital Arousal Disorder. *Curr Sex Health Rep* *12*; 34-39. DOI: 10.1007/s11930-020-00240-0
- Lasch, F., Karch, A., Koch, A., Derlin, T., Voskrebenez, A., Alsady, T.M., Hoepfer, M.M., Gall, H., Roller, F., Harth, S., Steiner, D., Krombach, G., Ghofrani, H.A., Rengier, F., Heussel, C.P., Grünig, E., Beitzke, D., Hacker, M., Lang, I.M., Behr, J., Bartenstein, P., Dinkel, J., Schmidt, K.H., Kreitner, K.F., Frauenfelder, T., Ulrich, S., Hamer, O.W., Pfeifer, M., Johns, C.S., Kiely, D.G., Swift, A.J., Wild, J., Vogel-Claussen, J. (2020). Comparison of MRI and VQ-SPECT as a Screening Test for Patients With Suspected CTEPH: CHANGE-MRI Study Design and Rationale *Front Cardiovasc Med* *7*; 51. DOI: 10.3389/fcvm.2020.00051
- Lecheler, L., Paulke, F., Sonnow, L., Limper, U., Schwarz, D., Jansen, S., Klussmann, J.P., Tank, J., Jordan, J. (2021). Gravity and Mastoid Effusion *Am J Med* *134*; e181-e183. DOI: 10.1016/j.amjmed.2020.09.020
- Mähringer-Kunz, A., Wagner, F., Hahn, F., Weinmann, A., Brodehl, S., Schotten, S., Hinrichs, J.B., Düber, C., Galle, P.R., Pinto Dos Santos, D., Kloeckner, R. (2020). Predicting survival after transarterial chemoembolization for hepatocellular carcinoma using a neural network: A Pilot Study *Liver Int* *40*; 694-703. DOI: 10.1111/liv.14380
- Maschke, S.K., Werncke, T., Becker, L.S., Dewald, C.L.A., Meine, T.C., Olsson, K.M., Fuge, J., Hoepfer, M.M., Wacker, F.K., Meyer, B.C., Hinrichs, J.B. (2020). The Value of C-Arm Computed Tomography in Addition to Conventional Digital Subtraction Angiography in the Diagnostic Work-up of Patients with Suspected Chronic Thromboembolic Pulmonary Hypertension: An Update of 300 Patients *Acad Radiol* DOI: 10.1016/j.acra.2020.06.039

- Meine, T.C., Dewald, C.L.A., Becker, L.S., Mähringer-Kunz, A., Massoumy, B., Maschke, S.K., Kirstein, M.M., Werncke, T., Wacker, F.K., Meyer, B.C., Hinrichs, J.B. (2020).Transjugular intrahepatic portosystemic shunt placement: portal vein puncture guided by 3D/2D image registration of contrast-enhanced multi-detector computed tomography and fluoroscopy *Abdom Radiol (NY)* 45,3934-3943. DOI: 10.1007/s00261-020-02589-1
- Neubert, L., Borchert, P., Stark, H., Hoefler, A., Vogel-Claussen, J., Warnecke, G., Eubel, H., Kuenzler, P., Kreipe, H.H., Hoepfer, M.M., Kuehnel, M., Jonigk, D. (2020).Molecular Profiling of Vascular Remodeling in Chronic Pulmonary Disease. *Am J Pathol* 190,1382-1396. DOI: 10.1016/j.ajpath.2020.03.008
- Obert, A.J., Gutberlet, M., Kern, A.L., Kaireit, T.F., Grimm, R., Wacker, F., Vogel-Claussen, J. (2020).(1) H-guided reconstruction of (19) F gas MRI in COPD patients *Magn Reson Med* 84,1336-1346. DOI: 10.1002/mrm.28209
- Oechtering, T.H., Panagiotopoulos, N., Völker, M., Lohwasser, S., Ellmann, S., Molwitz, I., Storz, C., Winther, H., Eisenblaetter, M., Antoch, G., Schönberg, S.O., Barkhausen, J., Anton, F., Neumann, S., Layer, G., Doerfler, A., Koerber, F., Wessling, J., Wucherer, M., Raspe, M. (2020).Arbeits- und Weiterbildungsbedingungen in der Facharztweiterbildung Radiologie - Ergebnisse einer bundesweiten Weiterbildungsumfrage durch das Forum Junge Radiologie in der Deutschen Röntgengesellschaft. *Röfo* 192,458-470. DOI: 10.1055/a-1047-1075
- Pan, L., Valdeig, S., Kägebein, U., Qing, K., Fetics, B., Roth, A., Nevo, E., Hensen, B., Weiss, C.R., Wacker, F.K. (2020).Integration and evaluation of a gradient-based needle navigation system for percutaneous MR-guided interventions *PLoS One* 15,e0236295. DOI: 10.1371/journal.pone.0236295
- Pfeil, A., Nussbaum, A., Renz, D.M., Hoffmann, T., Malich, A., Franz, M., Oelzner, P., Wolf, G., Böttcher, J. (2020).Radiographic remission in rheumatoid arthritis quantified by computer-aided joint space analysis (CASJA): a post hoc analysis of the RAPID 1 trial *Arthritis Res Ther* 22,229. DOI: 10.1186/s13075-020-02322-9
- Poehler, G.H., Alikhani, B., Klimes, F., Hauck, E.F., Ringe, K.I., Sonnow, L., Wacker, F., Raatschen, H.J. (2020).Impact of active dose management on radiation exposure and image quality in computed tomography: An observational study in 1315 patients *Eur J Radiol* 125,108900. DOI: 10.1016/j.ejrad.2020.108900
- Pöhler, G.H., Klimes, F., Behrendt, L., Voskrebenez, A., Gonzalez, C.C., Wacker, F., Hohlfeld, J.M., Vogel-Claussen, J. (2021).Repeatability of Phase-Resolved Functional Lung (PREFUL)-MRI Ventilation and Perfusion Parameters in Healthy Subjects and COPD Patients *J Magn Reson Imaging* 53,915-927. DOI: 10.1002/jmri.27385
- Pöhler, G.H., Klimes, F., Voskrebenez, A., Behrendt, L., Czerner, C., Gutberlet, M., Cebotari, S., Ius, F., Fegbeutel, C., Schoenfeld, C., Kaireit, T.F., Hauck, E.F., Olsson, K.M., Hoepfer, M.M., Wacker, F., Vogel-Claussen, J. (2020).Chronic Thromboembolic Pulmonary Hypertension Perioperative Monitoring Using Phase-Resolved Functional Lung (PREFUL)-MRI *J Magn Reson Imaging* 52,610-619. DOI: 10.1002/jmri.27097
- Raatschen, H.J. (2020).Radiologische Diagnostik bei Lebertumoren. *Internist (Berl)* 61,123-130. DOI: 10.1007/s00108-019-00724-9
- Ringe, K.I., Bergquist, A., Lenzen, H., Kartalis, N., Manns, M.P., Wacker, F., Grigoriadis, A. (2020).Clinical features and MRI progression of small duct primary sclerosing cholangitis (PSC) *Eur J Radiol* 129,109101. DOI: 10.1016/j.ejrad.2020.109101
- Ringe, K.I., Gut, A., Grenacher, L., Juchems, M., Kukuk, G., Wessling, J., Schreyer, A.G. (2021).LI-RADS im Jahr 2020 - Nutzt du es schon oder überlegst du noch? *Röfo* 193,186-193. DOI: 10.1055/a-1212-5915
- Ringe, K.I., Schreyer, A.G. (2020).How I do it – CT-Protokolle beim akuten Abdomen. *Radiologie up2date* 20,211-213. DOI: 10.1055/a-1133-9246
- Ringe, K.I., Vo Chieu, V.D., Wacker, F., Lenzen, H., Manns, M.P., Hundt, C., Schmidt, B., Winther, H.B. (2021).Fully automated detection of primary sclerosing cholangitis (PSC)-compatible bile duct changes based on 3D magnetic resonance cholangiopancreatography using machine learning. *Eur Radiol* 31,2482-2489. DOI: 10.1007/s00330-020-07323-5
- Römermann, I., Al-Bourini, O., Seif Amir Hosseini, A., Hinrichs, J.B., Wacker, F.K., Lotz, J., Ringe, K.I. (2021).Standortübergreifende Standardisierung von Untersuchungsprotokollen - eine Pilotstudie im Rahmen des Comprehensive Cancer Centers Niedersachsen. *Röfo* 193,410-416. DOI: 10.1055/a-1238-2925
- S Becker, L., Dewald, C., Maschke, S.K., Werncke, T., Meyer, B.C., Wacker, F.K., Hinrichs, J.B. (2020).CO₂-based C-arm computed tomography (CACT) of the pelvic arteries: feasibility and diagnostic performance in comparison to CO₂-angiography in patients with peripheral arterial disease. *Acta Radiol* DOI: 10.1177/0284185120969954

Schilling, T., Bauer, M., Hartung, D., Brandes, G., Tudorache, I., Cebotari, S., Meyer, T., Wacker, F., Haverich, A., Hassel, T. (2020). Stabilisation of a Segment of Autologous Vascularised Stomach as a Patch for Myocardial Reconstruction with Degradable Magnesium Alloy Scaffolds in a Swine Model. *Crystals* 10,438. DOI: 10.3390/cryst10060438

Schönfeld, L., Hinrichs, J.B., Marquardt, S., Voigtländer, T., Dewald, C., Koppert, W., Manns, M.P., Wacker, F., Vogel, A., Kirstein, M.M. (2020). Chemosaturation with percutaneous hepatic perfusion is effective in patients with ocular melanoma and cholangiocarcinoma *J Cancer Res Clin Oncol* 146,3003-3012. DOI: 10.1007/s00432-020-03289-5

Sogkas, G., Hirsch, S., Olsson, K.M., Hinrichs, J.B., Thiele, T., Seeliger, T., Skripuletz, T., Schmidt, R.E., Witte, T., Jablonka, A., Ernst, D. (2020). Lung Involvement in Primary Sjogren's Syndrome-An Under-Diagnosed Entity *Front Med (Lausanne)* 7,332. DOI: 10.3389/fmed.2020.00332

Stockhoff, L., Schultalbers, M., Tergast, T.L., Hinrichs, J.B., Gerbel, S., Meine, T.C., Manns, M.P., Simon, N., Cornberg, M., Meyer, B.C., Maasoumy, B. (2020). Safety and feasibility of transjugular intrahepatic portosystemic shunt in elderly patients with liver cirrhosis and refractory ascites *PLoS One* 15,e0235199. DOI: 10.1371/journal.pone.0235199

Tewes, S., Hensen, B., Jablonka, A., Gawe, D., Kastikainen, M., Happle, C., Carlens, J., Berthold, L.D., Wacker, F. (2020). Tuberculosis screening during the 2015 European refugee crisis *BMC Public Health* 20,200. DOI: 10.1186/s12889-020-8303-y

van Bömmel, L., Könniker, S., Sonnow, L., Krezdorn, N., Schmiedl, A., Vogt, P.M. (2020). Bone Tunnel Orientation in Suspension Arthroplasty of the Thumb Carpometacarpal Joint: An Anatomical Cadaver Study *Hand (N Y)* DOI: 10.1177/1558944719897137

Vo Chieu, V.D., Wacker, F., Rieder, C., Pöhler, G.H., Schumann, C., Ballhausen, H., Ringe, K.I. (2020). Ablation zone geometry after CT-guided hepatic microwave ablation: evaluation of a semi-automatic software and comparison of two different ablation systems *Int J Hyperthermia* 37,533-541. DOI: 10.1080/02656736.2020.1766704

Vogel-Claussen, J., Ley-Zaporozhan, J., Agarwal, P., Biederer, J., Kauczor, H.U., Ley, S., Kühl, H., Mueller-Lisse, U.G., Persigehl, T., Schlett, C.L., Wormanns, D., Antoch, G., Hamer, O.W. (2020). Empfehlungen der AG Thoraxdiagnostik der Deutschen Röntgengesellschaft zur klinischen Anwendung der Thoraxbildgebung und strukturierten CT-Befundung bei COVID-19-Pandemie. *Röfo* 192,633-640. DOI: 10.1055/a-1174-8378

Wessling, J., Ringe, K., Juchems, M., Grenacher, L., Schreyer, A.G. (2020). Peritoneale und retroperitoneale Anatomie für Radiologen. *Radiologie up2date* 20,179-201. DOI: 10.1055/a-1076-3377

Leitlinien von Fachgesellschaften

Delcroix, M., Torbicki, A., Gopalan, D., Sitbon, O., Klok, F.A., Lang, I., Jenkins, D., Kim, N.H., Humbert, M., Jais, X., Noordegraaf, A.V., Pepke-Zaba, J., Brenot, P., Dorfmueller, P., Fadel, E., Ghofrani, H.A., Hoeper, M.M., Jansa, P., Madani, M., Matsubara, H., Ogo, T., Grunig, E., D'Armini, A., Galie, N., Meyer, B., Corkery, P., Meszaros, G., Mayer, E., Simonneau, G. (2021). ERS Statement on Chronic Thromboembolic Pulmonary Hypertension. *Eur Respir J* 57,2002828. DOI: 10.1183/13993003.02828-2020

Übersichtsarbeiten

Herth, F., Hohlfeld, J.M., Haas, J., de la Hoz, A., Jin, X., Kreitner, K.F., Vogelmeier, C., Vogel-Claussen, J., Watz, H. (2020). The effect of tiotropium/olodaterol versus fluticasone propionate/salmeterol on left ventricular filling and lung hyperinflation in patients with COPD *BMJ Open Respir Res* 7,DOI: 10.1136/bmjresp-2020-000741

Hinrichs, J.B., Wacker, F.K. (2020). Lokoregionäre und lokal ablative Therapien von Lebertumoren. *Internist (Berl)* 61,158-163. DOI: 10.1007/s00108-019-00725-8

Hirsch, F.W., Sorge, I., Vogel-Claussen, J., Roth, C., Gräfe, D., Päts, A., Voskrebenev, A., Anders, R.M. (2020). The current status and further prospects for lung magnetic resonance imaging in pediatric radiology. *Pediatr Radiol* 50,734-749. DOI: 10.1007/s00247-019-04594-z

Kelgeri, C., Renz, D., McGuirk, S., Schmid, I., Sharif, K., Baumann, U. (2021). Liver Tumours in Children: The Hepatologist's View *J Pediatr Gastroenterol Nutr* 72,487-493. DOI: 10.1097/MPG.0000000000003006

Mentzel, H.J., Renz, D.M. (2020). Abdomenbildgebung bei zystischer Fibrose. *Radiologe* 60,831-838. DOI: 10.1007/s00117-020-00703-4

Pfeil, A., Böttcher, J., Oelzner, P., Hoffmann, T., Wolf, G., Renz, D.M. (2020). Röntgendiagnostik in der Rheumatologie im Jahr 2020. *Arthritis und Rheuma* 40,153-162. DOI: 10.1055/a-1162-2541

Renz, D.M., Dohna, M., Böttcher, J., Kaireit, T.F., Pfeil, A., Streitparth, F., Vogel-Claussen, J. (2020). Magnetresonanztomographie der Lunge bei zystischer Fibrose. *Monatsschr Kinderheilkd* 168,406-415. DOI: 10.1007/s00112-020-00890-3

von Falck, C., Hawi, N. (2020). Frakturdiagnostik: obere Extremität : Schulter und Schultergürtel *Radiologe* 60,541-548. DOI: 10.1007/s00117-020-00682-6

Voskrebenez, A., Vogel-Claussen, J. (2021). Proton MRI of the Lung: How to Tame Scarce Protons and Fast Signal Decay. *J Magn Reson Imaging* 53,1344-1357. DOI: 10.1002/jmri.27122

Letter

Biederer, J., Ohno, Y., Hatabu, H., Schiebler, M.L., van Beek, E.J.R., Vogel-Claussen, J., Kauczor, H.U. (2020). "Screening for lung cancer: Does MRI have a role?" [*European Journal of Radiology* 86 (2017) 353-360] *Eur J Radiol* 125,108896. DOI: 10.1016/j.ejrad.2020.108896

Meyer, B.C., Hinrichs, J.B., Ivanyi, P., Ehrlich, S., Greer, M., Hoeper, M.M., Busch, M. (2020). Extracorporeal portosystemic shunt in secondary Budd-Chiari syndrome *J Hepatol* 73,974-976. DOI: 10.1016/j.jhep.2020.05.038

Munidas, S., Couch, M.J., Rayment, J.H., Voskrebenez, A., Seethamraju, R., Vogel-Claussen, J., Ratjen, F., Santyr, G. (2021). Free-breathing MRI for Monitoring Ventilation Changes following Antibiotic Treatment of Pulmonary Exacerbations in Pediatric Cystic Fibrosis *Eur Respir J* 57,2003104. DOI: 10.1183/13993003.03104-2020

Stahl, K., Gronski, P.A., Kiyan, Y., Seeliger, B., Bertram, A., Pape, T., Welte, T., Hoeper, M.M., Haller, H., David, S. (2020). Injury to the Endothelial Glycocalyx in Critically Ill Patients with COVID-19 *Am J Respir Crit Care Med* 202,1178-1181. DOI: 10.1164/rccm.202007-2676LE

Case reports

Albers, A., Gies, U., Raatschen, H.J., Klintschar, M. (2020). Another umbrella murder? - A rare case of Minamata disease. *Forensic Sci Med Pathol* 16,504-509. DOI: 10.1007/s12024-020-00247-y

Franz, M., Renz, D., Wolf, G., Pfeil, A. (2020). Granulomatosis with polyangiitis mimics ST-elevation myocardial infarction *BMJ Case Rep* 13,e234728. DOI: 10.1136/bcr-2020-234728

Kamp, J.C., Jonigk, D.D., Hinrichs, J.B., Hoeper, M.M., Schönhofer, B., Ernst, D., Welte, T., Suhling, H. (2020). Recurrent Life-threatening Pneumonitis in a 37-Year-Old Woman *Chest* 158,e127-e132. DOI: 10.1016/j.chest.2020.03.066

Kamp, J.C., Suhling, H., Ramthor, M., Hinrichs, J.B., Soudah, B., Adel, J., Welte, T., Ringshausen, F.C. (2021). Eosinophile Granulomatose mit Polyangiitis mit pulmonaler und kardialer Beteiligung *Pneumologie* 75,33-38. DOI: 10.1055/a-1209-4292

Richter, J., Vogel-Claussen, J., Bobylev, D., Horke, A., Westhoff-Bleck, M., Bauersachs, J., Napp, L.C. (2021). Separate origin of four major coronary arteries *Cardiovasc Revasc Med* 25,86-88. DOI: 10.1016/j.carrev.2020.12.006

Welland, S., De Castro, T., Wirth, T., Kleine, M., Ringe, K.I., Saborowski, A., Vogel, A. (2020). Best supportive care bei einer jungen Patientin mit lokal fortgeschrittenem MSI-high-Kolonkarzinom? *Z Gastroenterol* 58,872-876. DOI: 10.1055/a-1174-0732

Comments

Renz, D.M. (2020). Lymphom-Diagnostik bei Kindern auch ohne Kontrastmittel aussagekräftig. *Fortschr Röntgenstr* 192,520-522. DOI: 10.1055/a-0999-6037

Editorials

Vogel-Claussen, J. (2021). Functional Lung MRI: Deep Learning Turns Proton into Helium Ventilation Maps-The Battle Is On! *Radiology* 298,439-440. DOI: 10.1148/radiol.2020204069

Abstracts

Becker, L.S. (2020). 2D parametric parenchymal blood flow (2D-PPBF) in transarterial chemoembolization for hepatocellular carcinoma: perfusion change quantification and tumor response prediction at 3 months post-intervention. *CIRSE* (9/12-9/15), 12.-15.09.2020.

Becker, L.S. (2020). 2D-perfusion angiography (2D-PA) and its suitability in diagnosing and documenting early treatment response in patients with non-occlusive mesenteric ischemia (NOMI): a retrospective analysis. *SIR 2020*, 20.-22.10.2020, Seattle(Washington).

Becker, L.S. (2020). Targeting the Achilles Heel of C-arm CT in Transarterial Chemoembolization (TACE): Evaluation of a Novel Motion Correction Algorithm. *RSNA* (11/29-12/5), 106th Scientific Assembly and Annual Meeting, 2020.

Buschur, K., Pottinger, T.D., Powell, C.A., Winther, H.B., Alsady, T.M., Hoffman, E.A., Bluemke, D.A., Tracy, R., Prince, M.R., Vogel-Claussen, J., Lappalainen, T., Liu, Y., Barr, R. (2020). Association of PBMC Gene Expression with Pulmonary Perfusion on Contrast-Enhanced MRI: The Multi-Ethnic Study of Atherosclerosis (MESA) COPD Study. *Am J Respir Crit Care Med* 201,A3842.

Kentros, P.A., Hiura, G., Prince, M.R., Watson, K., Michos, E.D., Allen, N.B., Vogel-Claussen, J., Winther, H.B., Moher Alsady, T., Barr, R., Oelsner, E. (2020). Association Between Use of ACE Inhibitors and Pulmonary Microvascular Perfusion on MRI. *Am J Respir Crit Care Med* 201,A6303.

Ljmani, A., Caroli, A., Laustsen, C., Francis, S., Mendichovszky, I.A., Bane, O., Nery, F., Sharma, K., Pohlmann, A., Dekkers, I.A., Vallee, J.P., Derlin, K., Notohamiprodjo, M., Lim, R.P., Palmucci, S., Serai, S.D., Periquito, J., Wang, Z.J., Froeling, M., Thoeny, H.C., Prasad, P., Schneider, M., Niendorf, T., Pullens, P., Sourbron, S., Sigmund, E.E. (2020). Correction to: Consensus-based technical recommendations for clinical translation of renal diffusion-weighted MRI *MAGMA* 33,197-198. DOI: 10.1007/s10334-020-00828-6

Renz, D.M. (2020). Entzündungen des muskuloskelettalen Systems. DEGUM-Sitzung Pädiatrie, 6.-7.März 2020, Kiel.

Renz, D.M. (2020). Noch mehr akutes Abdomen. RÖKO DIGITAL FFF: Kinderradiologie - Fälle aus der FA-Prüfung zu Notfalldiagnostik Abdomen, 24.10.2020 (online).

Ringe, K.I. (2020). Differentialdiagnose maligner Lebertumore. 101. Deutscher Röntgenkongress / RÖKO DIGITAL (Intro), 21.-23.05.2020, Leipzig.

Scharm, S., Dettmer, S., Vogel-Claussen, J., Prasse, A., Knudsen, L., Wacker, F., Fuge, J., Shin, H. (2020). Combined assessment of regional lung function and morphology using a contrast enhanced Dual-Energy CT protocol: Prospective value of functional imaging biomarkers in longitudinal analysis of patients with Interstitial Lung Disease. *Eur Respir J* 56,4575. DOI: 10.1183/13993003.congress-2020.4575

Shin, H., Minkler, M., Jaeger, L., Vogel-Claussen, J., Apel, R., Welte, T., Wacker, F., Dettmer, S., Prasse, A. (2020). Temporal subtraction of serial CT scans for visualisation and quantification of disease progression in Idiopathic Pulmonary Fibrosis. *Eur Respir J* 56,732. DOI: 10.1183/13993003.congress-2020.732

Habilitationen

Renne, J.J. (2020). Etablierung und Evaluation funktioneller Magnetresonanztomographie zur quantitativen Analyse von Lungenfunktion und Pathologie bei Lungentransplantation. Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Werncke, T. (2020). Optimierung der Bildqualität und Strahlenexposition von Patienten auf dem Gebiet der computertomographischen Angiographie des Abdomens und der unteren Extremität. Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Promotionen

Dewald, C.L.A. (2019). Chemosaturation mittels perkutaner hepatischer Perfusion (CS-PHP) mit Melphalan: Evaluation der 2D-Perfusions-Angiographie als Methode zur Detektion von Leckagen der venösen Doppel-Ballon-Katheter. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Hasdemir, D.B. (2019). Evaluation von CT Vaskularisationsmustern für die Prognose des Überlebens von Patienten mit hepatozellulärem Karzinom vor Therapie mit konventioneller transarterieller Chemoembolisation. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Kern, A.L. (2019). Functional lung magnetic resonance imaging using hyperpolarized ¹²⁹Xe Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Kirchner, T. (2020). Vergleich der gesundheitsbezogenen Lebensqualität nach erster transarterieller Chemoembolisation und selektiver interner Radiotherapie bei Patienten mit nicht-resektablem hepatozellulärem Karzinom Dissertation, Medizinische Hochschule Hannover, 2020

Küttner, M. (2019). Kardio-pulmonale MRT-Bildgebung zur Evaluation des Therapie-Ansprechens nach einer einzelnen BPA-Behandlungssitzung bei Patienten mit einer CTEPH. Dissertation, Medizinische Hochschule Hannover, 2020

Marquardt, K.J. (2019). Evaluation der Lebensqualität im Verlauf nach transarterieller Chemoembolisation des hepatozellulären Karzinoms sowie Korrelation mit bildmorphologischen, klinischen und laborchemischen Parametern Dissertation, Medizinische Hochschule Hannover, 2020

Nordlohne, M.W. (2018). Evaluation der Lebensqualität nach erster transarterieller Chemoembolisation bei Patienten mit hepatozellulärem Karzinom Dissertation, Medizinische Hochschule Hannover, 2020

Schmitz, B. (2018). Investigation of metabolic and microstructural alterations in human brain under physiological and pathological conditions by using magnetic resonance imaging and ¹H and ³¹P magnetic resonance spectroscopy. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Vo Chien, V.D. (2019). T1-Mapping zur Beurteilung von Nierenschäden nach Organtransplantation Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Strahlentherapie und Spezielle Onkologie – 8240

Originalpublikationen

Bruns, F., Knöchelmann, A.C., Henkensberens, C., Christiansen, H. (2020). Non-Attendance to Post-Radiotherapy Follow-Up in Breast Cancer: Efficacy of Mail and Telephone Reminders. *Clinical Oncology and Research* 3,1-5. DOI: 10.31487/j.COR.2020.08.03

Derlin, T., Sommerlath Sohns, J.M., Schmuck, S., Henkenberens, C., von Klot, C.A.J., Ross, T.L., Bengel, F.M. (2020). Influence of short-term dexamethasone on the efficacy of (177) Lu-PSMA-617 in patients with metastatic castration-resistant prostate cancer *Prostate* 80,619-631. DOI: 10.1002/pros.23974

Derlin, T., Werner, R.A., Lafos, M., Henkenberens, C., von Klot, C.A.J., Sommerlath Sohns, J.M., Ross, T.L., Bengel, F.M. (2020). Neuroendocrine Differentiation and Response to PSMA-Targeted Radioligand Therapy in Advanced Metastatic Castration-Resistant Prostate Cancer: A Single-Center Retrospective Study *J Nucl Med* 61,1602-1606. DOI: 10.2967/jnumed.120.241588

Dirven, L., Luerding, R., Beier, D., Bumers, E., Reinert, C., Seidel, C., Bonsanto, M.M., Bremer, M., Rieken, S., Combs, S.E., Herrlinger, U., Seliger, C., Kuntze, H., Mayer-Steinacker, R., Dieing, A., Bartels, C., Schnell, O., Weyerbrock, A., Seidel, S., Grauer, O., Nadjji-Ohl, M., Paulsen, F., Weller, M., Wick, W., Hau, P. (2020). Neurocognitive functioning and health-related quality of life in adult medulloblastoma patients: long-term outcomes of the NOA-07 study *J Neurooncol* 148,117-130. DOI: 10.1007/s11060-020-03502-y

Escala-Garcia, M., Abraham, J., Andrulis, I.L., Anton-Culver, H., Arndt, V., Ashworth, A., Auer, P.L., Auvinen, P., Beckmann, M.W., Beesley, J., Behrens, S., Benitez, J., Bermisheva, M., Blomqvist, C., Blot, W., Bogdanova, N.V., Bojesen, S.E., Bolla, M.K., Børresen-Dale, A.L., Brauch, H., Brenner, H., Brucker, S.Y., Burwinkel, B., Caldas, C., Canzian, F., Chang-Claude, J., Chanock, S.J., Chin, S.F., Clarke, C.L., Couch, F.J., Cox, A., Cross, S.S., Czene, K., Daly, M.B., Dennis, J., Devilee, P., Dunn, J.A., Dunning, A.M., Dwek, M., Earl, H.M., Eccles, D.M., Eliassen, A.H., Ellberg, C., Evans, D.G., Fasching, P.A., Figueroa, J., Flyger, H., Gago-Dominguez, M., Gapstur, S.M., Garcia-Closas, M., Garcia-Saenz, J.A., Gaudet, M.M., George, A., Giles, G.G., Goldgar, D.E., González-Neira, A., Grip, M., Guénel, P., Guo, Q., Haiman, C.A., Håkansson, N., Hamann, U., Harrington, P.A., Hiller, L., Hoening, M.J., Hopper, J.L., Howell, A., Huang, C.S., Huang, G., Hunter, D.J., Jakubowska, A., John, E.M., Kaaks, R., Kapoor, P.M., Keeman, R., Kitahara, C.M., Koppert, L.B., Kraft, P., Kristensen, V.N., Lambrechts, D., Le Marchand, L., Lejbkovicz, F., Lindblom, A., Lubinski, J., Mannermaa, A., Manoochchri, M., Manoukian, S., Margolin, S., Martinez, M.E., Maurer, T., Mavroudis, D., Meindl, A., Milne, R.L., Mulligan, A.M., Neuhausen, S.L., Nevanlinna, H., Newman, W.G., Olshan, A.F., Olson, J.E., Olsson, H., Orr, N., Peterlongo, P., Petridis, C., Prentice, R.L., Presneau, N., Punie, K., Ramachandran, D., Rennert, G., Romero, A., Sachchithanathan, M., Saloustros, E., Sawyer, E.J., Schmutzler, R.K., Schwentner, L., Scott, C., Simard, J., Sohn, C., Southey, M.C., Swerdlow, A.J., Tamimi, R.M., Tapper, W.J., Teixeira, M.R., Terry, M.B., Thorne, H., Tollenaar, R.A.E.M., Tomlinson, I., Troester, M.A., Truong, T., Turnbull, C., Vachon, C.M., van der Kolk, L.E., Wang, Q., Winqvist, R., Wolk, A., Yang, X.R., Ziogas, A., Pharoah, P.D.P., Hall, P., Wessels, L.F.A., Chenevix-Trench, G., Bader, G.D., Dörk, T., Easton, D.F., Canisius, S., Schmidt, M.K. (2020). A network analysis to identify mediators of germline-driven differences in breast cancer prognosis *Nat Commun* 11,312. DOI: 10.1038/s41467-019-14100-6

Fachal, L., Aschard, H., Beesley, J., Barnes, D.R., Allen, J., Kar, S., Pooley, K.A., Dennis, J., Michailidou, K., Turman, C., Soucy, P., Lemacon, A., Lush, M., Tyrer, J.P., Ghousaini, M., Moradi Marjaneh, M., Jiang, X., Agata, S., Aittomaki, K., Alonso, M.R., Andrulis, I.L., Anton-Culver, H., Antonenkova, N.N., Arason, A., Arndt, V., Aronson, K.J., Arun, B.K., Auber, B., Auer, P.L., Azzollini, J., Balmana, J., Barkardottir, R.B., Barrowdale, D., Beeghly-Fadiel, A., Benitez, J., Bermisheva, M., Bialkowska, K., Blanco, A.M., Blomqvist, C., Blot, W., Bogdanova, N.V., Bojesen, S.E., Bolla, M.K., Bonanni, B., Borg, A., Bosse, K., Brauch, H., Brenner, H., Briceno, I., Brock, I.W., Brooks-Wilson, A., Bruning, T., Burwinkel, B., Buys, S.S., Cai, Q., Caldes, T., Caligo, M.A., Camp, N.J., Campbell, I., Canzian, F., Carroll, J.S., Carter, B.D., Castelao, J.E., Chiquette, J., Christiansen, H., Chung, W.K., Claes, K.B.M., Clarke, C.L., GEMO Study Collaborators, EMBRACE Collaborators, Collee, J.M., Cornelissen, S., Couch, F.J., Cox, A., Cross, S.S., Cybulski, C., Czene, K., Daly, M.B., de la Hoya, M., Devilee, P., Diez, O., Ding, Y.C., Dite, G.S., Domchek, S.M., Dörk, T., Dos-Santos-Silva, I., Droit, A., Dubois, S., Dumont, M., Duran, M., Durcan, L., Dwek, M., Eccles, D.M., Engel, C., Eriksson, M., Evans, D.G., Fasching, P.A., Fletcher, O., Floris, G., Flyger, H., Foretova, L., Foulkes, W.D., Friedman, E., Fritschi, L., Frost, D., Gabrielson, M., Gago-Dominguez, M., Gambino, G., Ganz, P.A., Gapstur, S.M., Garber, J., Garcia-Saenz, J.A., Gaudet, M.M., Georgoulas, V., Giles, G.G., Glendon, G., Godwin, A.K., Goldberg, M.S., Goldgar, D.E., Gonzalez-Neira, A., Tibiletti, M.G., Greene, M.H., Grip, M., Gronwald, J., Grundy, A., Guenel, P., Hahnen, E., Haiman, C.A., Håkansson, N., Hall, P., Hamann, U., Harrington, P.A., Hartikainen, J.M., Hartman, M., He, W., Healey, C.S., Heemskerck-Gerritsen, B.A.M., Heyworth, J., Hillemanns, P., Hogervorst, F.B.L., Hollestelle, A., Hoening, M.J., Hopper, J.L., Howell, A., Huang, G., Hulick, P.J., Ilyanov, E.N., KConFab Investigators, HEBON

Investigators, ABCTB Investigators, Isaacs, C., Iwasaki, M., Jager, A., Jakimovska, M., Jakubowska, A., James, P.A., Janavicius, R., Jan-kowitz, R.C., John, E.M., Johnson, N., Jones, M.E., Jukkola-Vuorinen, A., Jung, A., Kaaks, R., Kang, D., Kapoor, P.M., Karlan, B.Y., Kee-man, R., Kerin, M.J., Khusnutdinova, E., Kiiski, J.I., Kirk, J., Kitahara, C.M., Ko, Y.D., Konstantopoulou, I., Kosma, V.M., Koutros, S., Ku-belka-Sabit, K., Kwong, A., Kyriacou, K., Laitman, Y., Lambrechts, D., Lee, E., Leslie, G., Lester, J., Lesueur, F., Lindblom, A., Lo, W.Y., Long, J., Lophatananon, A., Loud, J.T., Lubinski, J., MacInnis, R.J., Maishman, T., Makalic, E., Mannermaa, A., Manoochehri, M., Man-oukian, S., Margolin, S., Martinez, M.E., Matsuo, K., Maurer, T., Mavroudis, D., Mayes, R., McGuffog, L., McLean, C., Mebirouk, N., Meindl, A., Miller, A., Miller, N., Montagna, M., Moreno, F., Muir, K., Mulligan, A.M., Munoz-Garzon, V.M., Muranen, T.A., Narod, S.A., Nassir, R., Nathanson, K.L., Neuhausen, S.L., Nevanlinna, H., Neven, P., Nielsen, F.C., Nikitina-Zake, L., Norman, A., Offit, K., Olah, E., Olopade, O.I., Olsson, H., Orr, N., Osorio, A., Pankratz, V.S., Papp, J., Park, S.K., Park-Simon, T.W., Parsons, M.T., Paul, J., Pedersen, I.S., Peissel, B., Peshkin, B., Peterlongo, P., Peto, J., Plaseska-Karanfilska, D., Prajzendanc, K., Prentice, R., Presneau, N., Prokofyeva, D., Pu-jana, M.A., Pylkas, K., Radice, P., Ramus, S.J., Rantala, J., Rau-Murthy, R., Rennert, G., Risch, H.A., Robson, M., Romero, A., Rossing, M., Saloustros, E., Sanchez-Herrero, E., Sandler, D.P., Santamarina, M., Saunders, C., Sawyer, E.J., Scheuner, M.T., Schmidt, D.F., Schmutzler, R.K., Schneeweiss, A., Schoemaker, M.J., Schottker, B., Schurmann, P., Scott, C., Scott, R.J., Senter, L., Seynaeve, C.M., Shah, M., Sharma, P., Shen, C.Y., Shu, X.O., Singer, C.F., Slavin, T.P., Smichkoska, S., Southey, M.C., Spinelli, J.J., Spurdle, A.B., Stone, J., Stoppa-Lyonnet, D., Sutter, C., Swerdlow, A.J., Tamimi, R.M., Tan, Y.Y., Tapper, W.J., Taylor, J.A., Teixeira, M.R., Tengstrom, M., Teo, S.H., Terry, M.B., Teule, A., Thomassen, M., Thull, D.L., Tischkowitz, M., Toland, A.E., Tollenaar, R.A.E.M., Tomlinson, I., Torres, D., Torres-Mejia, G., Troes-ter, M.A., Truong, T., Tung, N., Tzardi, M., Ulmer, H.U., Vachon, C.M., van Asperen, C.J., van der Kolk, L.E., van Rensburg, E.J., Vega, A., Viel, A., Vijai, J., Vogel, M.J., Wang, Q., Wappenschmidt, B., Weinberg, C.R., Weitzel, J.N., Wendt, C., Wildiers, H., Winqvist, R., Wolk, A., Wu, A.H., Yannoukakos, D., Zhang, Y., Zheng, W., Hunter, D., Pharoah, P.D.P., Chang-Claude, J., Garcia-Closas, M., Schmidt, M.K., Milne, R.L., Kristensen, V.N., French, J.D., Edwards, S.L., Antoniou, A.C., Chenevix-Trench, G., Simard, J., Easton, D.F., Kraft, P., Dunning, A.M. (2020). Fine-mapping of 150 breast cancer risk regions identifies 191 likely target genes. *Nat Genet* 52:56-73. DOI: 10.1038/s41588-019-0537-1

Feng, H., Gusev, A., Pasaniuc, B., Wu, L., Long, J., Abu-Full, Z., Aittomäki, K., Andrulis, I.L., Anton-Culver, H., Antoniou, A.C., Arason, A., Arndt, V., Aronson, K.J., Arun, B.K., Asserianis, E., Auer, P.L., Azzollini, J., Balmana, J., Barkardottir, R.B., Barnes, D.R., Barrowdale, D., Beckmann, M.W., Behrens, S., Benitez, J., Bermisheva, M., Bialkowska, K., Blanco, A., Blomqvist, C., Boeckx, B., Bogdanova, N.V., Bo-jesen, S.E., Bolla, M.K., Bonanni, B., Borg, A., Brauch, H., Brenner, H., Briceno, I., Broeks, A., Brüning, T., Burwinkel, B., Cai, Q., Caldes, T., Caligo, M.A., Campbell, I., Canisius, S., Campa, D., Carter, B.D., Carter, J., Castela, J.E., Chang-Claude, J., Chanock, S.J., Christian-sen, H., Chung, W.K., Claes, K.B.M., Clarke, C.L., GEMO Study Collaborators, EMBRACE Collaborators, GC-HBOC study Collaborators, Couch, F.J., Cox, A., Cross, S.S., Cybulski, C., Czene, K., Daly, M.B., de la Hoya, M., De Leeneer, K., Dennis, J., Devilee, P., Diez, O., Dom-chek, S.M., Dörk, T., Dos-Santos-Silva, I., Dunning, A.M., Dwek, M., Eccles, D.M., Ejlertsen, B., Ellberg, C., Engel, C., Eriksson, M., Fasching, P.A., Fletcher, O., Flyger, H., Fostira, F., Friedman, E., Fritschi, L., Frost, D., Gabrielson, M., Ganz, P.A., Gapstur, S.M., Garber, J., Garcia-Closas, M., Garcia-Saenz, J.A., Gaudet, M.M., Giles, G.G., Glendon, G., Godwin, A.K., Goldberg, M.S., Goldgar, D.E., Gonzalez-Neira, A., Greene, M.H., Gronwald, J., Guenel, P., Haiman, C.A., Hall, P., Hamann, U., Hake, C., He, W., Heyworth, J., Hogervorst, F.B.L., Hollestelle, A., Hoening, M.J., Hoover, R.N., Hopper, J.L., Huang, G., Hulick, P.J., Humphreys, K., Imyanitov, E.N., ABCTB Investigators, HEBON Investigators, BCFR Investigators, OCGN Investigators, Isaacs, C., Jakimovska, M., Jakubowska, A., James, P., Janavicius, R., Jan-kowitz, R.C., John, E.M., Johnson, N., Joseph, V., Jung, A., Karlan, B.Y., Khusnutdinova, E., Kiiski, J.I., Konstantopoulou, I., Kristensen, V.N., Laitman, Y., Lambrechts, D., Lazaro, C., Leroux, D., Leslie, G., Lester, J., Lesueur, F., Lindor, N., Lindström, S., Lo, W.Y., Loud, J.T., Lubinski, J., Makalic, E., Mannermaa, A., Manoochehri, M., Manoukian, S., Margolin, S., Martens, J.W.M., Martinez, M.E., Matricardi, L., Maurer, T., Mavroudis, D., McGuffog, L., Meindl, A., Menon, U., Michailidou, K., Kapoor, P.M., Miller, A., Montagna, M., Moreno, F., Moserle, L., Mulligan, A.M., Muranen, T.A., Nathanson, K.L., Neuhausen, S.L., Nevanlinna, H., Nevelsteen, I., Nielsen, F.C., Nikitina-Zake, L., Offit, K., Olah, E., Olopade, O.I., Olsson, H., Osorio, A., Papp, J., Park-Simon, T.W., Parsons, M.T., Pedersen, I.S., Peixoto, A., Peter-longo, P., Peto, J., Pharoah, P.D.P., Phillips, K.A., Plaseska-Karanfilska, D., Poppe, B., Pradhan, N., Prajzendanc, K., Presneau, N., Punie, K., Pylkäs, K., Radice, P., Rantala, J., Rashid, M.U., Rennert, G., Risch, H.A., Robson, M., Romero, A., Saloustros, E., Sandler, D.P., Santos, C., Sawyer, E.J., Schmidt, M.K., Schmidt, D.F., Schmutzler, R.K., Schoemaker, M.J., Scott, R.J., Sharma, P., Shu, X.O., Sirmard, J., Singer, C.F., Skytte, A.B., Soucy, P., Southey, M.C., Spinelli, J.J., Spurdle, A.B., Stone, J., Swerdlow, A.J., Tapper, W.J., Taylor, J.A., Teixeira, M.R., Terry, M.B., Teule, A., Thomassen, M., Thöne, K., Thull, D.L., Tischkowitz, M., Toland, A.E., Tollenaar, R.A.E.M., Torres, D., Truong, T., Tung, N., Vachon, C.M., van Asperen, C.J., van den Ouweland, A.M.W., van Rensburg, E.J., Vega, A., Viel, A., Vieiro-Balo, P., Wang, Q., Wappenschmidt, B., Weinberg, C.R., Weitzel, J.N., Wendt, C., Winqvist, R., Yang, X.R., Yannoukakos, D., Ziogas, A., Milne, R.L., Easton, D.F., Chenevix-Trench, G., Zheng, W., Kraft, P., Jiang, X. (2020). Transcriptome-wide association study of breast cancer risk by estrogen-receptor status *Genet Epidemiol* 44:442-468. DOI: 10.1002/gepi.22288

Hacker, K.S., Jansson, K., Pichler, J., Salman, J., Avsar, M., Siemeni, T., Knöfel, A.K., Hoffler, K., Gottlieb, J., Frühauf, J., Werner, M., Poyanmehr, R., Jonigk, D., Balzer, M.S., Hewicker-Trautwein, M., Haverich, A., Sommer, W., Warnecke, G. (2021). Delayed non-myeloablative irradiation to induce long-term allograft acceptance in a large animal lung transplantation model. *Transpl Immunol* 65:101350. DOI: 10.1016/j.trim.2020.101350

Hassan, M., Stein, J., Christiansen, H. (2020). Secondary Malignancy after Treatment of Prostate Cancer. Radical Prostatectomy versus Ex-ternal Radiotherapy: A Retrospective Cohort Study. *Clin Res Urol* 3:1-7.

Henkenberens, C., Oehus, A.K., Derlin, T., Bengel, F., Ross, T.L., Kuczyk, M.A., Janssen, S., Christiansen, H., von Klot, C.A.J. (2020). Efficacy of repeated PSMA PET-directed radiotherapy for oligorecurrent prostate cancer after initial curative therapy *Strahlenther Onkol* 196:1006-1017. DOI: 10.1007/s00066-020-01629-5

Hohmann, S., Henkenberens, C., Zormpas, C., Christiansen, H., Bauersachs, J., Duncker, D., Veltmann, C. (2020). A novel open-source software-based high-precision workflow for target definition in cardiac radioablation *J Cardiovasc Electrophysiol* *37*,2689-2695. DOI: 10.1111/jce.14660

Horschke, S., Steinmann, D., Christiansen, H., de Zwaan, M., Zimmermann, T. (2020). Body image in men with prostate or laryngeal cancer and their female partners *Z Psychosom Med Psychother* *66*,287-301. DOI: 10.13109/zptm.2020.66.3.287

Kostyszyn, D., Fechter, T., Bartl, N., Grosu, A.L., Gratzke, C., Sigle, A., Mix, M., Ruf, J., Fassbender, T.F., Kiefer, S., Bettermann, A.S., Nicolay, N.H., Spohn, S., Kramer, M.U., Bronsert, P., Guo, H., Qiu, X., Wang, F., Henkenberens, C., Werner, R.A., Baltas, D., Meyer, P.T., Derlin, T., Chen, M., Zamboglou, C. (2021). Intraprostatic Tumour Segmentation on PSMA-PET Images in Patients with Primary Prostate Cancer with a Convolutional Neural Network *J Nucl Med* *62*,823-828. DOI: 10.2967/jnumed.120.254623

Kramer, I., Hoening, M.J., Mavaddat, N., Hauptmann, M., Keeman, R., Steyerberg, E.W., Giardiello, D., Antoniou, A.C., Pharoah, P.D.P., Canisius, S., Abu-Ful, Z., Andrulis, I.L., Anton-Culver, H., Aronson, K.J., Augustinsson, A., Becher, H., Beckmann, M.W., Behrens, S., Benitez, J., Bermisheva, M., Bogdanova, N.V., Bojesen, S.E., Bolla, M.K., Bonanni, B., Brauch, H., Bremer, M., Brucker, S.Y., Burwinkel, B., Castelao, J.E., Chan, T.L., Chang-Claude, J., Chanock, S.J., Chenevix-Trench, G., Choi, J.Y., Clarke, C.L., NBCS Collaborators, Collee, J.M., Couch, F.J., Cox, A., Cross, S.S., Czene, K., Daly, M.B., Devilee, P., Dörk, T., Dos-Santos-Silva, I., Dunning, A.M., Dwek, M., Eccles, D.M., Evans, D.G., Fasching, P.A., Flyger, H., Gago-Dominguez, M., Garcia-Closas, M., Garcia-Saenz, J.A., Giles, G.G., Goldgar, D.E., Gonzalez-Neira, A., Haiman, C.A., Hakansson, N., Hamann, U., Hartman, M., Heemskerck-Gerritsen, B.A.M., Hollestelle, A., Hopper, J.L., Hou, M.F., Howell, A., ABCTB Investigators, kConFab Investigators, Ito, H., Jakimovska, M., Jakubowska, A., Janni, W., John, E.M., Jung, A., Kang, D., Kets, C.M., Khusnutdinova, E., Ko, Y.D., Kristensen, V.N., Kurian, A.W., Kwong, A., Lambrechts, D., Le Marchand, L., Li, J., Lindblom, A., Lubinski, J., Mannermaa, A., Manoochehri, M., Margolin, S., Matsuo, K., Mavroudis, D., Meindl, A., Milne, R.L., Mulligan, A.M., Murrinen, T.A., Neuhausen, S.L., Nevanlinna, H., Newman, W.G., Olshan, A.F., Olson, J.E., Olsson, H., Park-Simon, T.W., Peto, J., Petridis, C., Plaseska-Karanfilska, D., Presneau, N., Pylkas, K., Radice, P., Rennert, G., Romero, A., Roylance, R., Saloustros, E., Sawyer, E.J., Schmutzler, R.K., Schwentner, L., Scott, C., See, M.H., Shah, M., Shen, C.Y., Shu, X.O., Siesling, S., Slager, S., Sohn, C., Southey, M.C., Spinelli, J.J., Stone, J., Tapper, W.J., Tengstrom, M., Teo, S.H., Terry, M.B., Tollenaar, R.A.E.M., Tomlinson, I., Troester, M.A., Vachon, C.M., van Ongeval, C., van Veen, E.M., Winqvist, R., Wolk, A., Zheng, W., Ziogas, A., Easton, D.F., Hall, P., Schmidt, M.K. (2020). Breast Cancer Polygenic Risk Score and Contralateral Breast Cancer Risk *Am J Hum Genet* *107*,837-848. DOI: 10.1016/j.ajhg.2020.09.001

Liu, J., Prager-van der Smissen, W.J.C., Collee, J.M., Bolla, M.K., Wang, Q., Michailidou, K., Dennis, J., Ahearn, T.U., Aittomaki, K., Ambrosone, C.B., Andrulis, I.L., Anton-Culver, H., Antonenkova, N.N., Arndt, V., Arnold, N., Aronson, K.J., Augustinsson, A., Auvinen, P., Becher, H., Beckmann, M.W., Behrens, S., Bermisheva, M., Bernstein, L., Bogdanova, N.V., Bogdanova-Markov, N., Bojesen, S.E., Brauch, H., Brenner, H., Briceno, I., Brucker, S.Y., Brüning, T., Burwinkel, B., Cai, Q., Cai, H., Campa, D., Canzian, F., Castelao, J.E., Chang-Claude, J., Chanock, S.J., Choi, J.Y., Christiaens, M., Clarke, C.L., NBCS Collaborators, Couch, F.J., Czene, K., Daly, M.B., Devilee, P., Dos-Santos-Silva, I., Dwek, M., Eccles, D.M., Eliassen, A.H., Fasching, P.A., Figueroa, J., Flyger, H., Fritschi, L., Gago-Dominguez, M., Gapstur, S.M., Garcia-Closas, M., Garcia-Saenz, J.A., Gaudet, M.M., Giles, G.G., Goldberg, M.S., Goldgar, D.E., Guenel, P., Haiman, C.A., Hakansson, N., Hall, P., Harrington, P.A., Hart, S.N., Hartman, M., Hillemanns, P., Hopper, J.L., Hou, M.F., Hunter, D.J., Huo, D., ABCTB Investigators, Ito, H., Iwasaki, M., Jakimovska, M., Jakubowska, A., John, E.M., Kaaks, R., Kang, D., Keeman, R., Khusnutdinova, E., Kim, S.W., Kraft, P., Kristensen, V.N., Kurian, A.W., Le Marchand, L., Li, J., Lindblom, A., Lophatananon, A., Luben, R.N., Lubinski, J., Mannermaa, A., Manoochehri, M., Manoukian, S., Margolin, S., Mariapun, S., Matsuo, K., Maurer, T., Mavroudis, D., Meindl, A., Menon, U., Milne, R.L., Muir, K., Mulligan, A.M., Neuhausen, S.L., Nevanlinna, H., Offit, K., Olopade, O.I., Olson, J.E., Olsson, H., Orr, N., Park, S.K., Peterlongo, P., Peto, J., Plaseska-Karanfilska, D., Presneau, N., Rack, B., Rau-Murthy, R., Rennert, G., Rennert, H.S., Rhenius, V., Romero, A., Ruebner, M., Saloustros, E., Schmutzler, R.K., Schneeweiss, A., Scott, C., Shah, M., Shen, C.Y., Shu, X.O., Simard, J., Sohn, C., Southey, M.C., Spinelli, J.J., Tamimi, R.M., Tapper, W.J., Teo, S.H., Terry, M.B., Torres, D., Truong, T., Untch, M., Vachon, C.M., van Asperen, C.J., Wolk, A., Yamaji, T., Zheng, W., Ziogas, A., Ziv, E., Torres-Mejia, G., Dörk, T., Swerdlow, A.J., Hamann, U., Schmidt, M.K., Dunning, A.M., Pharoah, P.D.P., Easton, D.F., Hoening, M.J., Martens, J.W.M., Hollestelle, A. (2020). Germline HOXB13 mutations p.G84E and p.R217C do not confer an increased breast cancer risk *Sci Rep* *10*,9688. DOI: 10.1038/s41598-020-65665-y

Muldbucker, P., Steinmann, D., Christiansen, H., de Zwaan, M., Zimmermann, T. (2021). Are women more afraid than men? Fear of recurrence in couples with cancer - predictors and sex-role-specific differences *J Psychosoc Oncol* *39*,89-104. DOI: 10.1080/07347332.2020.1762823

Notter, M., Thomsen, A.R., Nitsche, M., Hermann, R.M., Wolff, H.A., Hahl, G., Münch, K., Grosu, A.L., Vaupel, P. (2020). Combined wIRA-Hyperthermia and Hypofractionated Re-Irradiation in the Treatment of Locally Recurrent Breast Cancer: Evaluation of Therapeutic Outcome Based on a Novel Size Classification Cancers (Basel) *12*,e606. DOI: 10.3390/cancers12030606

Oehus, A.K., Kroeze, S.G.C., Schmidt-Hegemann, N.S., Vogel, M.M.E., Kirste, S., Becker, J., Burger, I.A., Derlin, T., Bartenstein, P., Eiber, M., Mix, M., la Fougere, C., Belka, C., Combs, S.E., Grosu, A.L., Müller, A.C., Guckenberger, M., Christiansen, H., Henkenberens, C. (2020). Efficacy of PSMA ligand PET-based radiotherapy for recurrent prostate cancer after radical prostatectomy and salvage radiotherapy *BMC Cancer* *20*,362. DOI: 10.1186/s12885-020-06883-5

Ohlendorf, F., Henkenberens, C., Brunkhorst, T., Ross, T.L., Christiansen, H., Bengel, F.M., Derlin, T. (2020). Volumetric 68Ga-DOTA-TATE PET/CT for assessment of whole-body tumor burden as a quantitative imaging biomarker in patients with metastatic gastroenteropancreatic neuroendocrine tumors *Q J Nucl Med Mol Imaging* DOI: 10.23736/S1824-4785.20.03238-0

Schmidt-Hegemann, N.S., Kroeze, S.G.C., Henkenberens, C., Vogel, M.M.E., Kirste, S., Becker, J., Burger, I.A., Derlin, T., Bartenstein, P., Eiber, M., Mix, M., la Fougere, C., Müller, A.C., Grosu, A.L., Combs, S.E., Christiansen, H., Guckenberger, M., Belka, C. (2020). Influence of localization of PSMA-positive oligo-metastases on efficacy of metastasis-directed external-beam radiotherapy-a multicenter retrospective study *Eur J Nucl Med Mol Imaging* 47,1852-1863. DOI: 10.1007/s00259-020-04708-y

Song, H., Dicks, E.M., Tyrer, J., Intermaggio, M., Chenevix-Trench, G., Bowtell, D.D., Traficante, N., Group, A., Brenton, J., Goranova, T., Hosking, K., Piskorz, A., van Oudenhoove, E., Doherty, J., Harris, H.R., Rossing, M.A., Duerst, M., Dörk, T., Bogdanova, N.V., Modugno, F., Moysich, K., Odunsi, K., Ness, R., Karlan, B.Y., Lester, J., Jensen, A., Kruger Kjaer, S., Hogdall, E., Campbell, I.G., Lazaro, C., Pujara, M.A., Cunningham, J., Vierkant, R., Winham, S.J., Hildebrandt, M., Huff, C., Li, D., Wu, X., Yu, Y., Permeth, J.B., Levine, D.A., Schildkraut, J.M., Riggan, M.J., Berchuck, A., Webb, P.M., Group, O.S., Cybulski, C., Gronwald, J., Jakubowska, A., Lubinski, J., Alsop, J., Harrington, P., Chan, I., Menon, U., Pearce, C.L., Wu, A.H., de Fazio, A., Kennedy, C.J., Goode, E., Ramus, S., Gayther, S., Pharoah, P. (2021). Population-based targeted sequencing of 54 candidate genes identifies PALB2 as a susceptibility gene for high-grade serous ovarian cancer *J Med Genet* 58,305-313. DOI: 10.1136/jmedgenet-2019-106739

Vaidya, J.S., Bulsara, M., Baum, M., Wenz, F., Massarut, S., Pigorsch, S., Alvarado, M., Douek, M., Saunders, C., Flyger, H.L., Eiermann, W., Brew-Graves, C., Williams, N.R., Potyka, I., Roberts, N., Bernstein, M., Brown, D., Sperk, E., Laws, S., Sütterlin, M., Corica, T., Lundgren, S., Holmes, D., Vinante, L., Bozza, F., Pazos, M., Le Blanc-Onfroy, M., Gruber, G., Polkowski, W., Dedes, K.J., Niewald, M., Blohmer, J., McCready, D., Hoefler, R., Kelemen, P., Petralia, G., Falzon, M., Joseph, D.J., Tobias, J.S. (2020). Long term survival and local control outcomes from single dose targeted intraoperative radiotherapy during lumpectomy (TARGIT-IORT) for early breast cancer: TARGIT-A randomised clinical trial *BMJ* 370,m2836. DOI: 10.1136/bmj.m2836

Vassis, S., Nöldeke, B., Christiansen, H., von Klot, C.A., Merten, R. (2020). Moderately HRT vs. CRT for localized prostate cancer using image-guided VMAT with SIB: evaluation of acute and late toxicities *Strahlenther Onkol* 196,598-607. DOI: 10.1007/s00066-020-01589-w

Vogel, M.M.E., Kroeze, S.G.C., Henkenberens, C., Schmidt-Hegemann, N.S., Kirste, S., Becker, J., Burger, I.A., Derlin, T., Bartenstein, P., Mix, M., la Fougere, C., Eiber, M., Christiansen, H., Belka, C., Grosu, A.L., Müller, A.C., Guckenberger, M., Combs, S.E. (2020). Prognostic risk classification for biochemical relapse-free survival in patients with oligorecurrent prostate cancer after [(68)Ga]PSMA-PET-guided metastasis-directed therapy *Eur J Nucl Med Mol Imaging* 47,2328-2338. DOI: 10.1007/s00259-020-04760-8

Zhang, H., Ahearn, T.U., Lecarpentier, J., Barnes, D., Beesley, J., Qi, G., Jiang, X., O'Mara, T.A., Zhao, N., Bolla, M.K., Dunning, A.M., Dennis, J., Wang, Q., Ful, Z.A., Aittomaki, K., Andrulis, I.L., Anton-Culver, H., Arndt, V., Aronson, K.J., Arun, B.K., Auer, P.L., Azzollini, J., Barrowdale, D., Becher, H., Beckmann, M.W., Behrens, S., Benitez, J., Bermisheva, M., Bialkowska, K., Blanco, A., Blomqvist, C., Bogdanova, N.V., Bojesen, S.E., Bonanni, B., Bondavalli, D., Borg, A., Brauch, H., Brenner, H., Briceno, I., Broeks, A., Brucker, S.Y., Bruning, T., Burwinkel, B., Buys, S.S., Byers, H., Caldes, T., Caligo, M.A., Calvello, M., Campa, D., Castela, J.E., Chang-Claude, J., Chanock, S.J., Christiaens, M., Christiansen, H., Chung, W.K., Claes, K.B.M., Clarke, C.L., Cornelissen, S., Couch, F.J., Cox, A., Cross, S.S., Czene, K., Daly, M.B., Devilee, P., Diez, O., Domchek, S.M., Dörk, T., Dwek, M., Eccles, D.M., Ekici, A.B., Evans, D.G., Fasching, P.A., Figueroa, J., Foretova, L., Fostira, F., Friedman, E., Frost, D., Gago-Dominguez, M., Gapstur, S.M., Garber, J., Garcia-Saenz, J.A., Gaudet, M.M., Gayther, S.A., Giles, G.G., Godwin, A.K., Goldberg, M.S., Goldgar, D.E., Gonzalez-Neira, A., Greene, M.H., Gronwald, J., Guenel, P., Haberle, L., Hahnen, E., Haiman, C.A., Hake, C.R., Hall, P., Hamann, U., Harkness, E.F., Heemskerk-Gerritsen, B.A.M., Hillemanns, P., Hogervorst, F.B.L., Holleczeck, B., Hollestelle, A., Hoening, M.J., Hoover, R.N., Hopper, J.L., Howell, A., Huebner, H., Hulick, P.J., Ilyanov, E.N., kConFab Investigators, ABCB Investigators, Isaacs, C., Izatt, L., Jager, A., Jakimovska, M., Jakubowska, A., James, P., Janavicius, R., Janni, W., John, E.M., Jones, M.E., Jung, A., Kaaks, R., Kapoor, P.M., Karlan, B.Y., Keeman, R., Khan, S., Khusnutdinova, E., Kitahara, C.M., Ko, Y.D., Konstantopoulou, I., Koppert, L.B., Koutros, S., Kristensen, V.N., Laenkholm, A.V., Lambrechts, D., Larsson, S.C., Laurent-Puig, P., Lazaro, C., Lazarova, E., Lejbkiewicz, F., Leslie, G., Lesueur, F., Lindblom, A., Lissowska, J., Lo, W.Y., Loud, J.T., Lubinski, J., Lukomska, A., MacInnis, R.J., Mannermaa, A., Manooch, M., Manooch, S., Margolin, S., Martinez, M.E., Matricardi, L., McGuffog, L., McLean, C., Mebirouk, N., Meindl, A., Menon, U., Miller, A., Mingazheva, E., Montagna, M., Mulligan, A.M., Mulot, C., Muranen, T.A., Nathanson, K.L., Neuhausen, S.L., Nevanlinna, H., Neven, P., Newman, W.G., Nielsen, F.C., Nikitina-Zake, L., Nodora, J., Offit, K., Olah, E., Olopade, O.I., Olsson, H., Orr, N., Papi, L., Papp, J., Park-Simon, T.W., Parsons, M.T., Peissel, B., Peixoto, A., Peshkin, B., Peterlongo, P., Peto, J., Phillips, K.A., Piedmonte, M., Plaseska-Karanfilska, D., Prajzandanc, K., Prentice, R., Prokofyeva, D., Rack, B., Radice, P., Ramus, S.J., Rantala, J., Rashid, M.U., Rennert, G., Rennert, H.S., Risch, H.A., Romero, A., Rookus, M.A., Rubner, M., Rudiger, T., Saloustros, E., Sampson, S., Sandler, D.P., Sawyer, E.J., Scheuner, M.T., Schmutzler, R.K., Schneeweiss, A., Schoemaker, M.J., Schottker, B., Schurmann, P., Senter, L., Sharma, P., Sherman, M.E., Shu, X.O., Singer, C.F., Smichkoska, S., Soucy, P., Southey, M.C., Spinelli, J.J., Stone, J., Stoppa-Lyonnet, D., EMBRACE Study, GEMO Study Collaborators, Swerdlow, A.J., Szabo, C.I., Tamimi, R.M., Tapper, W.J., Taylor, J.A., Teixeira, M.R., Terry, M., Thomassen, M., Thull, D.L., Tischkowitz, M., Toland, A.E., Tollenaar, R.A.E.M., Tomlinson, I., Torres, D., Troester, M.A., Truong, T., Tung, N., Untch, M., Vachon, C.M., van den Ouweland, A.M.W., van der Kolk, L.E., van Veen, E.M., van Rensburg, E.J., Vega, A., Wappenschmidt, B., Weinberg, C.R., Weitzel, J.N., Wildiers, H., Winqvist, R., Wolk, A., Yang, X.R., Yannoukakos, D., Zheng, W., Zorn, K.K., Milne, R.L., Kraft, P., Simard, J., Pharoah, P.D.P., Michailidou, K., Antoniou, A.C., Schmidt, M.K., Chenevix-Trench, G., Easton, D.F., Chatterjee, N., Garcia-Closas, M. (2020). Genome-wide association study identifies 32 novel breast cancer susceptibility loci from overall and subtype-specific analyses. *Nat Genet* 52,572-581. DOI: 10.1038/s41588-020-0609-2

Comments

Hermann, R.M., Christiansen, H. (2020). Kaugummi zur Linderung der strahleninduzierten Xerostomie - eine randomisierte Phase-III-Studie *Strahlenther Onkol* 196,1058-1061. DOI: 10.1007/s00066-020-01673-1

Hermann, R.M., Christiansen, H. (2021). Neoadjuvante Radiochemotherapie verbessert bei resektablen und grenzwertig resezierbaren Pankreaskarzinomen die onkologischen Ergebnisse, bei resezierbaren aber nicht das Gesamtüberleben : Ergebnisse der niederländischen PRE-OPANC-Studie *Strahlenther Onkol* 197,85-88. DOI: 10.1007/s00066-020-01717-6

Hermann, R.M., Merten, R. (2020). Dosimetrie für "tumor treating fields" - applizierte Energie korreliert mit onkologischen Ergebnissen bei Glioblastompatienten in der Studie EF-14 *Strahlenther Onkol* 196,583-585. DOI: 10.1007/s00066-020-01610-2

Steinmann, D., Langer, T., Rassaf, T., Hermann, R.M. (2020). Belastungsintoleranz, beeinträchtigte Organfunktionen und Mortalität bei erwachsenen Überlebenden nach Krebs im Kindesalter *Strahlenther Onkol* 196,1055-1057. DOI: 10.1007/s00066-020-01674-0

Habilitationen

Henkenberens, C. (2018). Individualisierte PSMA-Liganden PET/CT basierte Strahlentherapie des rezidierten Prostatakarzinoms Kumulative Habilitationsschrift, Medizinische Hochschule Hannover, 2018

Promotionen

Paleny, R. (2020). Vergleich von relativen und absoluten rektalen Dosis-Volumen-Parametern und deren klinische Korrelation mit akuter und später radiogener Proktitis bei Prostatakarzinompatienten. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Rupp, J.M.C. (2019). Mono-institutionelle Langzeituntersuchung des Auftretens und der Risikofaktoren eines Lymphödems nach multimodaler, brusterhaltender Behandlung des nodal-positiven Mammakarzinoms = Frequency and risk factors for arm lymphedema after multimodal breast-conserving treatment of nodal positive breast cancer : a longterm observation Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Stoppel, G. (2019). Lungentoxizität nach Bestrahlung im Kindes- und Jugendalter Ergebnisse aus dem Internationalen Projekt der prospektiven Analyse von Strahlentoxizität im Kindes- und Jugendalter = Lung toxicity after radiation in childhood : results of the International Project on Prospective Analysis of Radiotoxicity in Childhood and Adolescence. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Vassis, S. (2020). Moderately HRT vs. CRT for localized prostate cancer using image-guided VMAT with SIB evaluation of acute and late toxicities = Moderat hypofraktionierte vs. standardfraktionierte Strahlentherapie beim lokal begrenzten Prostatakarzinom unter Einsatz intensitätsmodulierter und bildgesteuerter Technik mit simultan integriertem Boost : Evaluation der Akut- und Spättoxizität Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Nuklearmedizin – 8250

Originalpublikationen

Albano, D., Bertagna, F., Bertoli, M., Bosio, G., Lucchini, S., Motta, F., Panarotto, M.B., Peli, A., Camoni, L., Bengel, F.M., Giubbini, R. (2020). Incidental Findings Suggestive of COVID-19 in Asymptomatic Patients Undergoing Nuclear Medicine Procedures in a High-Prevalence Region *J Nucl Med* 61,632-636. DOI: 10.2967/jnumed.120.246256

Borchert, T., Hess, A., Lukacevic, M., Ross, T.L., Bengel, F.M., Thackeray, J.T. (2020). Angiotensin-converting enzyme inhibitor treatment early after myocardial infarction attenuates acute cardiac and neuroinflammation without effect on chronic neuroinflammation. *Eur J Nucl Med Mol Imaging* 47,1757-1768. DOI: 10.1007/s00259-020-04736-8

Buchert, R., Dirks, M., Schütze, C., Wilke, F., Mamach, M., Wirries, A.K., Pflugrad, H., Hamann, L., Langer, L.B.N., Wetzel, C., Lukacevic, M., Polyak, A., Kessler, M., Petrusch, C., Bengel, F.M., Geworski, L., Rupprecht, R., Weissenborn, K., Ross, T.L., Berding, G. (2020). Reliable quantification of (18)F-GE-180 PET neuroinflammation studies using an individually scaled population-based input function or late tissue-to-blood ratio. *Eur J Nucl Med Mol Imaging* 47,2887-2900. DOI: 10.1007/s00259-020-04810-1

Derlin, K., Hellms, S., Gutberlet, M., Peperhove, M., Jang, M.S., Greite, R., Hartung, D., Derlin, T., Fegbeutel, C., Tudorache, I., Jüttner, B., Wiese, B., Lichtinghagen, R., Haller, H., Haverich, A., Wacker, F., Warnecke, G., Gueler, F. (2020). Application of MR diffusion imaging for non-invasive assessment of acute kidney injury after lung transplantation *Medicine (Baltimore)* 99,e22445. DOI: 10.1097/MD.00000000000022445

Derlin, T., Jaeger, B., Jonigk, D., Apel, R., Freise, J., Shin, H.O., Weiberg, D., Warnecke, G., Ross, T.L., Wester, H.J., Seeliger, B., Welte, T., Bengel, F.M., Prasse, A. (2021). Clinical Molecular Imaging of Pulmonary CXCR4 Expression to Predict Outcome of Pirfenidone Treatment in Idiopathic Pulmonary Fibrosis *Chest* 159,1094-1106. DOI: 10.1016/j.chest.2020.08.2043

Derlin, T., Schultze-Florey, C., Werner, R.A., Möhn, N., Skripuletz, T., David, S., Beutel, G., Eder, M., Ross, T.L., Bengel, F.M., Ganser, A., Koenecke, C. (2021). (18)F-FDG PET/CT of off-target lymphoid organs in CD19-targeting chimeric antigen receptor T-cell therapy for relapsed or refractory diffuse large B-cell lymphoma *Ann Nucl Med* 35,132-138. DOI: 10.1007/s12149-020-01544-w

Derlin, T., Sommerlath Sohns, J.M., Schmuck, S., Henkenberens, C., von Klot, C.A.J., Ross, T.L., Bengel, F.M. (2020). Influence of short-term dexamethasone on the efficacy of (177) Lu-PSMA-617 in patients with metastatic castration-resistant prostate cancer *Prostate* 80,619-631. DOI: 10.1002/pros.23974

Derlin, T., Werner, R.A., Lafos, M., Henkenberens, C., von Klot, C.A.J., Sommerlath Sohns, J.M., Ross, T.L., Bengel, F.M. (2020). Neuroendocrine Differentiation and Response to PSMA-Targeted Radioligand Therapy in Advanced Metastatic Castration-Resistant Prostate Cancer: A Single-Center Retrospective Study *J Nucl Med* 61,1602-1606. DOI: 10.2967/jnumed.120.241588

Floerkemeier, T., Arokiasamy, R., Budde, S., Hurschler, C., Windhagen, H., von Lewinski, G., Gronewold, J. (2021). Is the strain pattern of conventional stems negatively affected by a previously short stem THA? An experimental study in cadaveric bone *Technol Health Care* 29,323-331. DOI: 10.3233/THC-191940

Henkenberens, C., Oehus, A.K., Derlin, T., Bengel, F., Ross, T.L., Kuczyk, M.A., Janssen, S., Christiansen, H., von Klot, C.A.J. (2020). Efficacy of repeated PSMA PET-directed radiotherapy for oligorecurrent prostate cancer after initial curative therapy *Strahlenther Onkol* 196,1006-1017. DOI: 10.1007/s00066-020-01629-5

Hess, A., Derlin, T., Koenig, T., Diekmann, J., Wittneben, A., Wang, Y., Wester, H.J., Ross, T.L., Wollert, K.C., Bauersachs, J., Bengel, F.M., Thackeray, J.T. (2020). Molecular imaging-guided repair after acute myocardial infarction by targeting the chemokine receptor CXCR4 *Eur Heart J* 41,3564-3575. DOI: 10.1093/eurheartj/ehaa598

Kessler, M., Schierholz, I., Mamach, M., Wilke, F., Hahne, A., Büchner, A., Geworski, L., Bengel, F.M., Sandmann, P., Berding, G. (2020). Combined Brain-Perfusion SPECT and EEG Measurements Suggest Distinct Strategies for Speech Comprehension in CI Users With Higher and Lower Performance. *Front Neurosci* 14,787. DOI: 10.3389/fnins.2020.00787

Kostyszyn, D., Fechter, T., Bartl, N., Grosu, A.L., Gratzke, C., Sigle, A., Mix, M., Ruf, J., Fassbender, T.F., Kiefer, S., Bettermann, A.S., Nicolay, N.H., Spohn, S., Kramer, M.U., Bronsert, P., Guo, H., Qiu, X., Wang, F., Henkenberens, C., Werner, R.A., Baltas, D., Meyer, P.T., Derlin, T., Chen, M., Zamboglou, C. (2021). Intraprostatic Tumour Segmentation on PSMA-PET Images in Patients with Primary Prostate Cancer with a Convolutional Neural Network *J Nucl Med* 62,823-828. DOI: 10.2967/jnumed.120.254623

Lasch, F., Karch, A., Koch, A., Derlin, T., Voskrebenev, A., Alsady, T.M., Hoepfer, M.M., Gall, H., Roller, F., Harth, S., Steiner, D., Krombach, G., Ghofrani, H.A., Rengier, F., Heussel, C.P., Grünig, E., Beitzke, D., Hacker, M., Lang, I.M., Behr, J., Bartenstein, P., Dinkel, J., Schmidt, K.H., Kreitner, K.F., Frauenfelder, T., Ulrich, S., Hamer, O.W., Pfeifer, M., Johns, C.S., Kiely, D.G., Swift, A.J., Wild, J., Vogel-Claussen, J. (2020). Comparison of MRI and VQ-SPECT as a Screening Test for Patients With Suspected CTEPH: CHANGE-MRI Study Design and Rationale *Front Cardiovasc Med* 7,51. DOI: 10.3389/fcvm.2020.00051

Oehus, A.K., Kroeze, S.G.C., Schmidt-Hegemann, N.S., Vogel, M.M.E., Kirste, S., Becker, J., Burger, I.A., Derlin, T., Bartenstein, P., Eiber, M., Mix, M., la Fougere, C., Belka, C., Combs, S.E., Grosu, A.L., Müller, A.C., Guckenberger, M., Christiansen, H., Henkenberens, C. (2020). Efficacy of PSMA ligand PET-based radiotherapy for recurrent prostate cancer after radical prostatectomy and salvage radiotherapy *BMC Cancer* 20,362. DOI: 10.1186/s12885-020-06883-5

Ohlendorf, F., Henkenberens, C., Brunkhorst, T., Ross, T.L., Christiansen, H., Bengel, F.M., Derlin, T. (2020). Volumetric 68Ga-DOTA-TATE PET/CT for assessment of whole-body tumor burden as a quantitative imaging biomarker in patients with metastatic gastroenteropancreatic neuroendocrine tumors *Q J Nucl Med Mol Imaging* DOI: 10.23736/S1824-4785.20.03238-0

Rekowski, J., Hüttmann, A., Schmitz, C., Müller, S.P., Kurch, L., Kotzerke, J., Franzius, C., Weckesser, M., Bengel, F.M., Freesmeyer, M., Hertel, A., Krohn, T., Holzinger, J., Brink, I., Haberkorn, U., Nyuyki, F., van Assema, D.M.E., Geworski, L., Hasenclever, D., Jöckel, K.H., Dührsen, U. (2021). Interim PET evaluation in diffuse large B-cell lymphoma employing published recommendations: Comparison of the Deauville 5-point scale and the DeltaSUVmax method. *J Nucl Med* 62,37-42. DOI: 10.2967/jnumed.120.244145

Ruiz-Bedoya, C.A., Ordonez, A.A., Werner, R.A., Plyku, D., Klunk, M.H., Leal, J., Lesniak, W.G., Holt, D.P., Dannals, R.F., Higuchi, T., Rowe, S.P., Jain, S.K. (2020). (11)C-PABA as a PET Radiotracer for Functional Renal Imaging: Preclinical and First-in-Human Study *J Nucl Med* 61,1665-1671. DOI: 10.2967/jnumed.119.239806

Schmidt-Hegemann, N.S., Kroeze, S.G.C., Henkenberens, C., Vogel, M.M.E., Kirste, S., Becker, J., Burger, I.A., Derlin, T., Bartenstein, P., Eiber, M., Mix, M., la Fougere, C., Müller, A.C., Grosu, A.L., Combs, S.E., Christiansen, H., Guckenberger, M., Belka, C. (2020). Influence of localization of PSMA-positive oligo-metastases on efficacy of metastasis-directed external-beam radiotherapy—a multicenter retrospective study *Eur J Nucl Med Mol Imaging* 47,1852-1863. DOI: 10.1007/s00259-020-04708-y

Schmitz, C., Rekowski, J., Müller, S.P., Hertenstein, B., Franzius, C., Ganser, A., Bengel, F.M., Kroschinsky, F., Kotzerke, J., La Rosee, P., Freesmeyer, M., Hoeffkes, H.G., Hertel, A., Behringer, D., Mesters, R., Weckesser, M., Mahlmann, S., Haberkorn, U., Martens, U., Prange-Krex, G., Brenner, W., Giagounidis, A., Moeller, R., Runde, V., Sandmann, M., Hautzel, H., Wilop, S., Krohn, T., Dürk, H., Heike, M., Alashkar, F., Brinkmann, M., Trenn, G., Wacker, D., Kreisel-Bustgens, C., Bernhard, H., Heil, G., Larisch, R., Kurch, L., Jöckel, K.H., Hoelzer, D., Klapper, W., Boellaard, R., Dührsen, U., Hüttmann, A. (2020). Baseline and interim PET-based outcome prediction in peripheral T-cell lymphoma: A subgroup analysis of the PETAL trial. *Hematol Oncol* 38,244-256. DOI: 10.1002/hon.2697

Vogel, M.M.E., Kroeze, S.G.C., Henkenberens, C., Schmidt-Hegemann, N.S., Kirste, S., Becker, J., Burger, I.A., Derlin, T., Bartenstein, P., Mix, M., la Fougere, C., Eiber, M., Christiansen, H., Belka, C., Grosu, A.L., Müller, A.C., Guckenberger, M., Combs, S.E. (2020). Prognostic risk classification for biochemical relapse-free survival in patients with oligorecurrent prostate cancer after [(68)Ga]PSMA-PET-guided metastasis-directed therapy *Eur J Nucl Med Mol Imaging* 47,2328-2338. DOI: 10.1007/s00259-020-04760-8

Well, L., Jaeger, A., Kehrler-Sawatzki, H., Farschtschi, S., Avanesov, M., Sauer, M., de Sousa, M.T., Bannas, P., Derlin, T., Adam, G., Mautner, V.F., Salamon, J.M. (2020). The effect of pregnancy on growth-dynamics of neurofibromas in Neurofibromatosis type 1 *PLoS One* 15,e0232031. DOI: 10.1371/journal.pone.0232031

Werner, R.A., Derlin, T., Rowe, S.P., Bundschuh, L., Sheikh, G.T., Pomper, M.G., Schulz, S., Higuchi, T., Buck, A.K., Bengel, F.M., Bundschuh, R.A., Lapa, C. (2021). High Interobserver Agreement for the Standardized Reporting System SSTR-RADS 1.0 on Somatostatin Receptor PET/CT *J Nucl Med* 62,514-520. DOI: 10.2967/jnumed.120.245464

Wojdowska, W., Karczmarczyk, U., Balog, L., Sawicka, A., Pöstenyi, Z., Kovacs-Haasz, V., Polyak, A., Laszuk, E., Mikolajczak, R., Garmuszek, P. (2020). Impact of DOTA-Chelators on the Antitumor Activity of (177)Lu-DOTA-Rituximab Preparations in Lymphoma Tumor-Bearing Mice *Cancer Biother Radiopharm* 35,558-562. DOI: 10.1089/cbr.2019.3405

Wolf, B.J., Brackhan, M., Bascunana, P., Leiter, I., Langer, B.L.N., Ross, T.L., Bankstahl, J.P., Bankstahl, M. (2020). TSPO PET Identifies Different Anti-inflammatory Minocycline Treatment Response in Two Rodent Models of Epileptogenesis *Neurotherapeutics* 17,1228-1238. DOI: 10.1007/s13311-020-00834-5

Leitlinien von Fachgesellschaften

Derlin, T., Gatidis, S., Krause, B.J., Antoch, G., Kotzerke, J., Pinto Dos Santos, D., Eiber, M., Weber, M.A., Giesel, F., Pfannenberger, C., Schlemmer, H.P., Persigehl, T., Herrmann, K., Umutlu, L. (2020). Konsensempfehlung zur strukturierten Befunderstellung onkologischer PET-Hybridbildgebung *Nuklearmedizin* 59,288-293. DOI: 10.1055/a-1176-0275

Derlin, T., Gatidis, S., Krause, B.J., Antoch, G., Kotzerke, J., Pinto Dos Santos, D., Eiber, M., Weber, M.A., Giesel, F., Pfannenberger, C., Schlemmer, H.P., Persigehl, T., Herrmann, K., Umutlu, L. (2020). Konsensempfehlung zur strukturierten Befunderstellung onkologischer PET-Hybridbildgebung *Röfo* 192,739-744. DOI: 10.1055/a-1179-6603

Übersichtsarbeiten

Dewey, M., Siebes, M., Kachelriess, M., Kofoed, K.F., Maurovich-Horvat, P., Nikolaou, K., Bai, W., Kofler, A., Manka, R., Kozzerke, S., Chiribiri, A., Schaeffter, T., Michallek, F., Bengel, F., Nekolla, S., Knaapen, P., Lubberink, M., Senior, R., Tang, M.X., Piek, J.J., van de Hoef, T., Martens, J., Schreiber, L., Quantitative Cardiac Imaging Study Group. (2020). Clinical quantitative cardiac imaging for the assessment of myocardial ischaemia. *Nat Rev Cardiol* 17,427-450. DOI: 10.1038/s41569-020-0341-8

Glaserapp, A., Hess, A., Thackeray, J.T. (2020). Molecular imaging in nuclear cardiology: Pathways to individual precision medicine *J Nucl Cardiol* 27,2195-2201. DOI: 10.1007/s12350-020-02319-6

Solnes, L.B., Werner, R.A., Jones, K.M., Sadaghiani, M.S., Bailey, C.R., Lapa, C., Pomper, M.G., Rowe, S.P. (2020). Theranostics: Leveraging Molecular Imaging and Therapy to Impact Patient Management and Secure the Future of Nuclear Medicine *J Nucl Med* 61,311-318. DOI: 10.2967/jnumed.118.220665

Weber, W.A., Czernin, J., Anderson, C.J., Badawi, R.D., Barthel, H., Bengel, F., Bodei, L., Buvat, I., DiCarli, M., Graham, M.M., Grimm, J., Herrmann, K., Kostakoglu, L., Lewis, J.S., Mankoff, D.A., Peterson, T.E., Schelbert, H., Schöder, H., Siegel, B.A., Strauss, H.W. (2020). The Future of Nuclear Medicine, Molecular Imaging, and Theranostics *J Nucl Med* 61,2635-2725. DOI: 10.2967/jnumed.120.254532

Werner, R.A., Bengel, F.M., Derlin, T. (2020). Theranostics und Hybridbildgebung für somatostatinrezeptor-exprimierende Tumore *Radio- loge* 60,413-420. DOI: 10.1007/s00117-020-00652-y

Werner, R.A., Bengel, F.M., Derlin, T. (2021). Emerging molecular targets for imaging of atherosclerotic plaque using positron emission tomography *Curr Radiopharm* *14*,173-183. DOI: 10.2174/1874471013666200505102353

Werner, R.A., Derlin, T., Lapa, C., Sheikbahaie, S., Higuchi, T., Giesel, F.L., Behr, S., Drzezga, A., Kimura, H., Buck, A.K., Bengel, F.M., Pomper, M.G., Gorin, M.A., Rowe, S.P. (2020). (18)F-Labeled, PSMA-Targeted Radiotracers: Leveraging the Advantages of Radiofluorination for Prostate Cancer Molecular Imaging Theranostics *10*, DOI: 10.7150/thno.37894

Werner, R.A., Thackeray, J.T., Diekmann, J., Weiberg, D., Bauersachs, J., Bengel, F.M. (2020). The Changing Face of Nuclear Cardiology: Guiding Cardiovascular Care Toward Molecular Medicine *J Nucl Med* *61*,951-961. DOI: 10.2967/jnumed.119.240440

Case reports

Diekmann, J., Werner, R.A., Ross, T.L., Derlin, T. (2020). Gallbladder Visualization in Peptide Receptor Radionuclide Therapy With ¹⁷⁷Lu-DOTATATE: A Potential Mimicker of Hepatic Metastases *Clin Nucl Med* *45*,e521-e522. DOI: 10.1097/RLU.00000000000003192

Editorials

Knapp, W.H., Grosu, A.L. (2020). Leopoldina und die Rolle der Medizin Radiologe *60*,1178-1182. DOI: 10.1007/s00117-020-00771-6

Thackeray, J.T. (2020). Fantastic voyage: Catheter-based quantification of tracer distribution on a miniature scale. *J Nucl Cardiol* DOI: 10.1007/s12350-020-02379-8

Thackeray, J.T. (2020). Sound and Fibroblast Activation Protein Inhibitor: Imaging Fibroblast Activation in the Heart *Circ Cardiovasc Imaging* *13*,e011603. DOI: 10.1161/CIRCIMAGING.120.011603

Thackeray, J.T., Taqueti, V.R. (2020). Imaging inflammation in cardiovascular disease: translational perspective and overview *Q J Nucl Med Mol Imaging* *64*,1-3. DOI: 10.23736/S1824-4785.20.03247-1

Weber, W.A., Bengel, F.M., Blasberg, R.G. (2020). The AQARA Principle: Proposing Standard Requirements for Radionuclide-Based Images in Medical Journals *J Nucl Med* *61*,1-2. DOI: 10.2967/jnumed.119.240523

Werner, R.A., Derlin, T., Bengel, F.M. (2020). Personalized prediction of mode of cardiac death in heart failure using supervised machine learning in the context of cardiac innervation imaging *J Nucl Cardiol* DOI: 10.1007/s12350-020-02215-z

Werner, R.A., Thackeray, J.T., Bengel, F.M. (2021). Does lipid-lowering medication improve cardiac sympathetic nerve integrity? *J Nucl Cardiol* *28*,1458-1460. DOI: 10.1007/s12350-019-01883-w

Habilitationen

Werner, R. (2020). Das nuklearmedizinische Theranostik-Konzept bei Tumorerkrankungen: Ansätze zur Therapieoptimierung mittels molekularer Bildgebung. Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Promotionen

Borchert, T. (2019). Molecular imaging of inflammation in the heart-brain axis following myocardial infarction and its modulation by therapeutic interventions Dissertation, Medizinische Hochschule Hannover, 2020

Heß, A. (2020). Serial multimodality molecular imaging of left ventricular remodelling and its relationship to myocardial inflammation in animal models of heart failure. Dissertation, Medizinische Hochschule Hannover, 2020

Zentrum Neurologische Medizin

Klinik für Neurochirurgie – 7240

Originalpublikationen

Beck, A.K., Sandmann, P., Dürschmid, S., Schwabe, K., Saryyeva, A., Krauss, J.K. (2020). Neuronal activation in the human centromedian-parafascicular complex predicts cortical responses to behaviorally significant auditory events. *Neuroimage* *211*,116583. DOI: 10.1016/j.neuroimage.2020.116583

- Esmailzadeh, M., Hong, B., Polemikos, M., Al-Afif, S., Hermann, E.J., Scheinichen, D., von Kaisenberg, C., Hillemanns, P., Krauss, J.K. (2020). Spinal emergency surgery during pregnancy: contemporary strategies and outcome. *World Neurosurg* *139*,e421-e427. DOI: 10.1016/j.wneu.2020.04.019
- Esmailzadeh, M., Uksul, N., Hong, B., von Kaisenberg, C., Scheinichen, D., Lang, J.M., Hermann, E.J., Hillemanns, P., Krauss, J.K. (2020). Intracranial emergencies during pregnancy requiring urgent neurosurgical treatment. *Clin Neurol Neurosurg* *195*,105905. DOI: 10.1016/j.clineuro.2020.105905
- Hatipoglu Majernik, G., Al-Afif, S., Heissler, H.E., Cassini Ascencao, L., Krauss, J.K. (2020). Microvascular decompression: is routine postoperative CT imaging necessary? *Acta Neurochir (Wien)* *162*,1095-1099. DOI: 10.1007/s00701-020-04288-8
- Hatipoglu Majernik, G., Al-Afif, S., Heissler, H.E., Krauss, J.K. (2021). Operative findings and outcome of microvascular decompression/adhesiolysis for trigeminal neuralgia in multiple sclerosis without demyelinating brain stem lesions. *Clin Neurol Neurosurg* *200*,106376. DOI: 10.1016/j.clineuro.2020.106376
- Helgers, S.O.A., Al Krinawe, Y., Alam, M., Krauss, J.K., Schwabe, K., Hermann, E.J., Al-Afif, S. (2020). Lesion of the Fastigial Nucleus in Juvenile Rats Deteriorates Rat Behavior in Adulthood, Accompanied by Altered Neuronal Activity in the Medial Prefrontal Cortex. *Neuroscience* *442*,29-40. DOI: 10.1016/j.neuroscience.2020.06.035
- Helgers, S.O.A., Talbot, S.R., Riedesel, A.K., Wassermann, L., Wu, Z., Krauss, J.K., Häger, C., Bleich, A., Schwabe, K. (2020). Body weight algorithm predicts humane endpoint in an intracranial rat glioma model. *Sci Rep* *10*,9020. DOI: 10.1038/s41598-020-65783-7
- Kaelin-Lang, A., You, H., Burgunder, J.M., Lönnfors-Weitze, T., Loher, T.J., Taub, E., Isaias, I.U., Krauss, J.K., Michael Schupbach, W.M. (2020). Bilateral pallidal stimulation improves cervical dystonia for more than a decade. *Parkinsonism Relat Disord* *81*,78-81. DOI: 10.1016/j.parkreldis.2020.10.028
- Knipper, M., van Dijk, P., Schulze, H., Mazurek, B., Krauss, P., Scheper, V., Warnecke, A., Schlee, W., Schwabe, K., Singer, W., Braun, C., Delano, P.H., Fallgatter, A.J., Ehlis, A.C., Searchfield, G.D., Munk, M.H.J., Baguley, D.M., Rüttiger, L. (2020). The Neural Bases of Tinnitus: Lessons from Deafness and Cochlear Implants *J Neurosci* *40*,7190-7202. DOI: 10.1523/JNEUROSCI.1314-19.2020
- Merola, A., Torres-Russotto, D.R., Stebbins, G.T., Vizcarra, J.A., Shukla, A.W., Hassan, A., Marsili, L., Krauss, J.K., Elble, R.J., Deuschl, G., Espay, A.J. (2020). Development and Validation of the Orthostatic Tremor Severity and Disability Scale (OT-10). *Mov Disord* *35*,1796-1801. DOI: 10.1002/mds.28142
- Paracka, L., Wegner, F., Escher, C., Kliez, M., de Zwaan, M., Abdallat, M., Saryyeva, A., Krauss, J.K. (2020). Body Concept and Quality of Life in Patients with Idiopathic Dystonia. *Brain Sci* *10*,E488 [pii]. DOI: 10.3390/brainsci10080488
- Weigel, R., Capelle, H.H., Al-Afif, S., Krauss, J.K. (2021). The dimensions of "failed back surgery syndrome": what is behind a label? *Acta Neurochir (Wien)* *163*,245-250. DOI: 10.1007/s00701-020-04548-7
- Winter, L., Saryyeva, A., Schwabe, K., Heissler, H.E., Runge, J., Alam, M., Heitland, I., Kahl, K.G., Krauss, J.K. (2021). Long-Term Deep Brain Stimulation in Treatment-Resistant Obsessive-Compulsive Disorder: Outcome and Quality of Life at Four to Eight Years Follow-Up. *Neuromodulation* *24*,324-330. DOI: 10.1111/ner.13232
- Wolf, M.E., Klockziem, M., Majewski, O., Schulte, D.M., Krauss, J.K., Blahak, C. (2019). Implementation of New Technology in Patients with Chronic Deep Brain Stimulation: Switching from Non-Rechargeable Constant Voltage to Rechargeable Constant Current Stimulation. *Stereotact Funct Neurosurg* *97*,362-368. DOI: 10.1159/000505076
- Übersichtsarbeiten**
- Fasanö, A., Espay, A.J., Tang-Wai, D.F., Wikkelsö, C., Krauss, J.K. (2020). Gaps, Controversies, and Proposed Roadmap for Research in Normal Pressure Hydrocephalus. *Mov Disord* *35*,1945-1954. DOI: 10.1002/mds.28251
- Krauss, J.K., Lipsman, N., Aziz, T., Boutet, A., Brown, P., Chang, J.W., Davidson, B., Grill, W.M., Hariz, M.I., Horn, A., Schulder, M., Mammis, A., Tass, P.A., Volkmann, J., Lozano, A.M. (2021). Technology of deep brain stimulation: current status and future directions *Nat Rev Neurol* *17*,75-87. DOI: 10.1038/s41582-020-00426-z
- Nowacki, A., Schober, M., Nader, L., Saryyeva, A., Nguyen, T.K., Green, A.L., Pollo, C., Krauss, J.K., Fontaine, D., Aziz, T.Z. (2020). Deep Brain Stimulation for Chronic Cluster Headache: Meta-Analysis of Individual Patient Data. *Ann Neurol* *88*,956-969. DOI: 10.1002/ana.25887

Rzesnitzek, L., Hariz, M., Krauss, J.K. (2020). Psychosurgery in the History of Stereotactic Functional Neurosurgery. *Stereotact Funct Neurosurg* 98,241-247. DOI: 10.1159/000508167

Wu, H., Hariz, M., Visser-Vandewalle, V., Zrinzo, L., Coenen, V.A., Sheth, S.A., Bervoets, C., Naesström, M., Blomstedt, P., Coyne, T., Hamani, C., Slavin, K., Krauss, J.K., Kahl, K.G., Taira, T., Zhang, C., Sun, B., Toda, H., Schlaepfer, T., Chang, J.W., Regis, J., Schuurman, R., Schulder, M., Doshi, P., Mosley, P., Poologaindran, A., Lazaro-Munoz, G., Pepper, J., Schechtmann, G., Fyttagoridis, A., Huys, D., Goncalves-Ferreira, A., D'Haese, P.F., Neimat, J., Broggi, G., Vilela-Filho, O., Voges, J., Alkhani, A., Nakajima, T., Richieri, R., Djurfeldt, D., Fontaine, P., Martinez-Alvarez, R., Okamura, Y., Chandler, J., Watanabe, K., Barcia, J.A., Reneses, B., Lozano, A., Gabriels, L., De Salles, A., Halpern, C.H., Matthews, K., Fins, J.J., Nuttin, B. (2021). Deep brain stimulation for refractory obsessive-compulsive disorder (OCD): emerging or established therapy? *Mol Psychiatry* 26,60-65. DOI: 10.1038/s41380-020-00933-x

Case reports

Al Krinawe, Y., Esmailzadeh, M., Hartmann, C., Krauss, J.K., Hermann, E.J. (2020). Pediatric rosette-forming glioneuronal tumor of the septum pellucidum. *Childs Nerv Syst* 36,2867-2870. DOI: 10.1007/s00381-020-04575-w

Saryyeva, A., Capelle, H.H., Kinfe, T.M., Schrader, C., Krauss, J.K. (2021). Pallidal Deep Brain Stimulation in Patients with Prior Bilateral Pallidotomy and Selective Peripheral Denervation for Treatment of Dystonia *Stereotact Funct Neurosurg* 99,1-5. DOI: 10.1159/000509822

Buchbeiträge, Monografien

Contarino, M.F., Krauss, J.K. (2020). Dystonia. In: *Fundamentals and Clinics of Deep Brain Stimulation: an interdisciplinary approach*, Temel Y., eds. (Cham: Springer) pp. 217-234

Promotionen

Al Krinawe, Y. (2020). Stereotaktische Läsionen des Nucleus fastigii bei juvenilen Ratten: Auswirkungen auf Kognition und Sozialverhalten im Erwachsenenalter. Dissertation, Medizinische Hochschule Hannover, 2020

Runge, J. (2020). Die tiefe Hirnstimulation: Analyse der postoperativen 30-Tage Morbidität insbesondere im Hinblick auf Zugang (transventrikulär), Mikroelektrodenableitung und passagere Externalisierung Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Neurologie – 7210

Originalpublikationen

Abo-Rady, M., Kalmbach, N., Pal, A., Schludi, C., Janosch, A., Richter, T., Freitag, P., Bickle, M., Kahlert, A.K., Petri, S., Stefanov, S., Glass, H., Staege, S., Just, W., Bhatnagar, R., Edbauer, D., Hermann, A., Wegner, F., Sternecker, J.L. (2020). Knocking out C9ORF72 Exacerbates Axonal Trafficking Defects Associated with Hexanucleotide Repeat Expansion and Reduces Levels of Heat Shock Proteins *Stem Cell Reports* 14,390-405. DOI: 10.1016/j.stemcr.2020.01.010

Abrahamyan, S., Eberspächer, B., Hoshi, M.M., Aly, L., Luessi, F., Groppa, S., Klotz, L., Meuth, S.G., Schroeder, C., Grüter, T., Tackenberg, B., Paul, F., Then-Bergh, F., Kümpfel, T., Weber, F., Stangel, M., Bayas, A., Wildemann, B., Heesen, C., Zettl, U., Warnke, C., Antony, G., Hessler, N., Wiendl, H., Bittner, S., Hemmer, B., Gold, R., Salmen, A., Ruprecht, K., German Competence Network Multiple Sclerosis (KKNMS), Other members of the KKNMS that acted as collaborators in this study. (2020). Complete Epstein-Barr virus seropositivity in a large cohort of patients with early multiple sclerosis *J Neurol Neurosurg Psychiatry* 97,681-686. DOI: 10.1136/jnnp-2020-322941

Amarenco, P., Denison, H., Evans, S.R., Himmelmann, A., James, S., Knutsson, M., Ladenvall, P., Molina, C.A., Wang, Y., Johnston, S.C., THALES Steering Committee and Investigators. (2020). Ticagrelor Added to Aspirin in Acute Ischemic Stroke or Transient Ischemic Attack in Prevention of Disabling Stroke: A Randomized Clinical Trial *JAMA Neurol* 78,1-9. DOI: 10.1001/jamaneurol.2020.4396

Amarenco, P., Denison, H., Evans, S.R., Himmelmann, A., James, S., Knutsson, M., Ladenvall, P., Molina, C.A., Wang, Y., Johnston, S.C., THALES Steering Committee and Investigators*. (2020). Ticagrelor Added to Aspirin in Acute Nonsevere Ischemic Stroke or Transient Ischemic Attack of Atherosclerotic Origin *Stroke* 57,3504-3513. DOI: 10.1161/STROKEAHA.120.032239

Barc, K., Szacka, K., Nieporecki, K., de Carvalho, M., Gromicho, M., Grosskreutz, J., Petri, S., Rödiger, A., Steinbach, R., Uysal, H., Kuzma-Kozakiewicz, M. (2020). Emotional Lability at Disease Onset Is an Independent Prognostic Factor of Faster Disease Progression in Amyotrophic Lateral Sclerosis *Aging Dis* 17,1021-1028. DOI: 10.14336/AD.2019.1120

- Bensmail, D., Wissel, J., Laffont, I., Simon, O., Scheschonka, A., Flatau-Baque, B., Dressler, D., Simpson, D.M. (2021). Efficacy of incobotulinumtoxinA for the treatment of adult lower-limb post-stroke spasticity, including pes equinovarus *Ann Phys Rehabil Med* *64*,101376. DOI: 10.1016/j.rehab.2020.03.005
- Bertram, M., Warren, C.V., Lange, F., Seer, C., Steinke, A., Wegner, F., Schrader, C., Dressler, D., Dengler, R., Kopp, B. (2020). Dopaminergic modulation of novelty repetition in Parkinson's disease: A study of P3 event-related brain potentials *Clin Neurophysiol* *131*,2841-2850. DOI: 10.1016/j.clinph.2020.09.013
- Beyer, L., Nitschmann, A., Barthel, H., van Eimeren, T., Unterrainer, M., Sauerbeck, J., Marek, K., Song, M., Palleis, C., Respondek, G., Hammes, J., Barbe, M.T., Onur, O., Jessen, F., Saur, D., Schroeter, M.L., Rumpf, J.J., Rullmann, M., Schildan, A., Patt, M., Neumaier, B., Barret, O., Madonia, J., Russell, D.S., Stephens, A.W., Roeber, S., Herms, J., Bötzel, K., Levin, J., Classen, J., Höglinger, G.U., Bartenstein, P., Villemagne, V., Drzezga, A., Seibyl, J., Sabri, O., Brendel, M. (2020). Early-phase [(18)F]PI-2620 tau-PET imaging as a surrogate marker of neuronal injury *Eur J Nucl Med Mol Imaging* *47*,2911-2922. DOI: 10.1007/s00259-020-04788-w
- Biechele, G., Franzmeier, N., Blume, T., Ewers, M., Luque, J.M., Eckenweber, F., Sacher, C., Beyer, L., Ruch-Rubinstein, F., Lindner, S., Gildehaus, F.J., von Ungern-Sternberg, B., Cumming, P., Bartenstein, P., Rominger, A., Höglinger, G.U., Herms, J., Brendel, M. (2020). Glial activation is moderated by sex in response to amyloidosis but not to tau pathology in mouse models of neurodegenerative diseases *J Neuroinflammation* *17*,374. DOI: 10.1186/s12974-020-02046-2
- Binz, C., Schreiber-Katz, O., Kumpe, M., Ranxha, G., Siegler, H., Wieselmann, G., Petri, S., Osmanovic, A. (2021). An observational cohort study on impact, dimensions and outcome of perceived fatigue in adult 5q-spinal muscular atrophy patients receiving nusinersen treatment *J Neurol* *268*,950-962. DOI: 10.1007/s00415-020-10227-5
- Bittner, S., Steffen, F., Uphaus, T., Muthuraman, M., Fleischer, V., Salmen, A., Luessi, F., Berthele, A., Klotz, L., Meuth, S.G., Bayas, A., Paul, F., Hartung, H.P., Linker, R., Heesen, C., Stangel, M., Wildemann, B., Then Bergh, F., Tackenberg, B., Kuempfel, T., Weber, F., Zettl, U.K., Ziemann, U., Tumani, H., Groppa, S., Mühlau, M., Lukas, C., Hemmer, B., Wiendl, H., Gold, R., Zipp, F., KKNMS consortium. (2020). Clinical implications of serum neurofilament in newly diagnosed MS patients: A longitudinal multicentre cohort study *EBioMedicine* *56*,102807. DOI: 10.1016/j.ebiom.2020.102807
- Brendel, M., Barthel, H., van Eimeren, T., Marek, K., Beyer, L., Song, M., Palleis, C., Gehmeyr, M., Fietzek, U., Respondek, G., Sauerbeck, J., Nitschmann, A., Zach, C., Hammes, J., Barbe, M.T., Onur, O., Jessen, F., Saur, D., Schroeter, M.L., Rumpf, J.J., Rullmann, M., Schildan, A., Patt, M., Neumaier, B., Barret, O., Madonia, J., Russell, D.S., Stephens, A., Roeber, S., Herms, J., Bötzel, K., Classen, J., Bartenstein, P., Villemagne, V., Levin, J., Höglinger, G.U., Drzezga, A., Seibyl, J., Sabri, O. (2020). Assessment of 18F-PI-2620 as a Biomarker in Progressive Supranuclear Palsy *JAMA Neurol* *77*,1408-1419. DOI: 10.1001/jamaneurol.2020.2526
- Buchert, R., Dirks, M., Schütze, C., Wilke, F., Mamach, M., Wirries, A.K., Pflugrad, H., Hamann, L., Langer, L.B.N., Wetzel, C., Lukacevic, M., Polyak, A., Kessler, M., Petrusch, C., Bengel, F.M., Geworski, L., Rupprecht, R., Weissenborn, K., Ross, T.L., Berding, G. (2020). Reliable quantification of (18)F-GE-180 PET neuroinflammation studies using an individually scaled population-based input function or late tissue-to-blood ratio. *Eur J Nucl Med Mol Imaging* *47*,2887-2900. DOI: 10.1007/s00259-020-04810-1
- Butryn, M., Neumann, J., Rolfes, L., Bartels, C., Wattjes, M.P., Mahmoudi, N., Seeliger, T., Konen, F.F., Thiele, T., Witte, T., Meuth, S.G., Skripuletz, T., Pawlitzki, M. (2020). Clinical, Radiological, and Laboratory Features of Spinal Cord Involvement in Primary Sjogren's Syndrome. *J Clin Med* *9*. DOI: 10.3390/jcm9051482
- Chakroun, T., Evsyukov, V., Nykänen, N.P., Höllerhage, M., Schmidt, A., Kamp, F., Ruf, V.C., Wurst, W., Rösler, T.W., Höglinger, G.U. (2020). Alpha-synuclein fragments trigger distinct aggregation pathways *Cell Death Dis* *11*,84. DOI: 10.1038/s41419-020-2285-7
- de Araujo, L.S., Pessler, K., Sühs, K.W., Novoselova, N., Klawonn, F., Kuhn, M., Kaefer, V., Müller-Vahl, K., Trebst, C., Skripuletz, T., Stangel, M., Pessler, F. (2020). Phosphatidylcholine PC ae C44:6 in cerebrospinal fluid is a sensitive biomarker for bacterial meningitis *J Transl Med* *18*,9. DOI: 10.1186/s12967-019-02179-w
- Derlin, T., Schultze-Florey, C., Werner, R.A., Möhn, N., Skripuletz, T., David, S., Beutel, G., Eder, M., Ross, T.L., Bengel, F.M., Ganser, A., Koenecke, C. (2021). (18)F-FDG PET/CT of off-target lymphoid organs in CD19-targeting chimeric antigen receptor T-cell therapy for relapsed or refractory diffuse large B-cell lymphoma *Ann Nucl Med* *35*,132-138. DOI: 10.1007/s12149-020-01544-w
- Diekmann, K., Kuzma-Kozakiewicz, M., Piotrkiewicz, M., Gromicho, M., Grosskreutz, J., Andersen, P.M., de Carvalho, M., Uysal, H., Osmanovic, A., Schreiber-Katz, O., Petri, S., Körner, S. (2020). Impact of comorbidities and co-medication on disease onset and progression in a large German ALS patient group *J Neurol* *267*,2130-2141. DOI: 10.1007/s00415-020-09799-z
- Dressler, D., Adib Saberi, F. (2020). Botulinum toxin therapy in the SARS-CoV-2 pandemic: patient perceptions from a German cohort *J Neural Transm (Vienna)* *127*,1271-1274. DOI: 10.1007/s00702-020-02235-6

Eckenweber, F., Medina-Luque, J., Blume, T., Sacher, C., Biechele, G., Wind, K., Deussing, M., Briel, N., Lindner, S., Boening, G., von Ungern-Sternberg, B., Unterrainer, M., Albert, N.L., Zwergal, A., Levin, J., Bartenstein, P., Cumming, P., Rominger, A., Höglinger, G.U., Herms, J., Brendel, M. (2020). Longitudinal TSPO expression in tau transgenic P301S mice predicts increased tau accumulation and deteriorated spatial learning *J Neuroinflammation* *17*,208. DOI: 10.1186/s12974-020-01883-5

Engel, S., Graetz, C., Salmen, A., Muthuraman, M., Toenges, G., Ambrosius, B., Bayas, A., Berthele, A., Heesen, C., Klotz, L., Kümpfel, T., Linker, R.A., Meuth, S.G., Paul, F., Stangel, M., Tackenberg, B., Then Bergh, F., Tumani, H., Weber, F., Wildemann, B., Zettl, U.K., Antony, G., Bittner, S., Groppa, S., Hemmer, B., Wiendl, H., Gold, R., Zipp, F., Lill, C.M., Luessi, F., German Competence Network of Multiple Sclerosis. (2020). Is APOE epsilon4 associated with cognitive performance in early MS? *Neurol Neuroimmunol Neuroinflamm* *7*,DOI: 10.1212/NXI.0000000000000728

Fheodoroff, K., Rekan, T., Medeiros, L., Kossmehl, P., Wissel, J., Bensmail, D., Scheschonka, A., Flatau-Baque, B., Simon, O., Dressler, D., Simpson, D.M. (2020). Quality of life in subjects with upper- and lower-limb spasticity treated with incobotulinumtoxinA *Health Qual Life Outcomes* *18*,51. DOI: 10.1186/s12955-020-01304-4

Fu, T., Klietz, M., Nösel, P., Wegner, F., Schrader, C., Höglinger, G.U., Dadak, M., Mahmoudi, N., Lanfermann, H., Ding, X.Q. (2020). Brain Morphological Alterations Are Detected in Early-Stage Parkinson's Disease with MRI Morphometry *J Neuroimaging* *30*,786-792. DOI: 10.1111/jon.12769

Gabriel, M.M., Kircheis, G., Hardtke, S., Markwardt, D., Buggisch, P., Mix, H., Grüngreif, K., Welzel, T.M., Kalsch, J., Hartmann, H., Gerbes, A.L., Karpowitz, M.V., Seeliger, B., Wedemeyer, H., Weissenborn, K., HepNet HE-Register Study Group. (2021). Risk of recurrent hepatic encephalopathy in patients with liver cirrhosis: a German registry study. *Eur J Gastroenterol Hepatol* *33*,1185-1193. DOI: 10.1097/MEG.0000000000001822

Gasperi, C., Andlauer, T.F.M., Keating, A., Knier, B., Klein, A., Pernpeintner, V., Lichtner, P., Gold, R., Zipp, F., Then Bergh, F., Stangel, M., Tumani, H., Wildemann, B., Wiendl, H., Bayas, A., Kümpfel, T., Zettl, U.K., Linker, R.A., Ziemann, U., Knop, M., Warnke, C., Friese, M.A., Paul, F., Tackenberg, B., Berthele, A., Hemmer, B. (2020). Genetic determinants of the humoral immune response in MS *Neurol Neuroimmunol Neuroinflamm* *7*,DOI: 10.1212/NXI.0000000000000827

Gingele, S., Henkel, F., Heckers, S., Moellenkamp, T.M., Hümmert, M.W., Skripuletz, T., Stangel, M., Gudi, V. (2020). Delayed Demyelination and Impaired Remyelination in Aged Mice in the Cuprizone Model *Cells* *9*,DOI: 10.3390/cells9040945

Gingele, S., Pul, R., Sardari, M., Borbor, M., Henkel, F., Moellenkamp, T.M., Gudi, V., Happle, C., Grychtol, R., Habener, A., Hansen, G., Hermann, D.M., Stangel, M., Kleinschnitz, C., Skuljec, J. (2020). FoxP3 deficiency causes no inflammation or neurodegeneration in the murine brain. *J Neuroimmunol* *342*,577216. DOI: 10.1016/j.jneuroim.2020.577216

Greten, S., Müller-Funogea, J.I., Wegner, F., Höglinger, G.U., Simon, N., Junius-Walker, U., Gerbel, S., Krause, O., Klietz, M. (2020). Drug safety profiles in geriatric patients with Parkinson's disease using the FORTA (Fit FOR The Aged) classification: results from a mono-centric retrospective analysis *J Neural Transm (Vienna)* DOI: 10.1007/s00702-020-02276-x

Grimm, M.J., Respondek, G., Stamelou, M., Arzberger, T., Ferguson, L., Gelpi, E., Giese, A., Grossman, M., Irwin, D.J., Pantelyat, A., Rajput, A., Roeber, S., van Swieten, J.C., Troakes, C., Meissner, W.G., Nilsson, C., Piot, I., Compta, Y., Rowe, J.B., Höglinger, G.U., Movement Disorder Society-Endorsed PSP Study Group. (2020). Clinical Conditions "Suggestive of Progressive Supranuclear Palsy"-Diagnostic Performance *Mov Disord* *35*,2301-2313. DOI: 10.1002/mds.28263

Gromicho, M., Figueiral, M., Uysal, H., Grosskreutz, J., Kuzma-Kozakiewicz, M., Pinto, S., Petri, S., Madeira, S., Swash, M., de Carvalho, M. (2020). Spreading in ALS: The relative impact of upper and lower motor neuron involvement *Ann Clin Transl Neurol* *7*,1181-1192. DOI: 10.1002/acn3.51098

Grosse, G.M., Bauer, C., Kopp, B., Schrader, C., Osmanovic, A. (2020). Identification of a rare SEPT9 variant in a family with autosomal dominant Charcot-Marie-Tooth disease *BMC Med Genet* *21*,45. DOI: 10.1186/s12881-020-0984-7

Grosse, G.M., Sieweke, J.T., Biber, S., Ziegler, N.L., Gabriel, M.M., Schuppner, R., Worthmann, H., Bavendiek, U., Weissenborn, K. (2020). Nonstenotic Carotid Plaque in Embolic Stroke of Undetermined Source: Interplay of Arterial and Atrial Disease *Stroke* *51*,3737-3741. DOI: 10.1161/STROKEAHA.120.030537

Hagenacker, T., Wurster, C.D., Günther, R., Schreiber-Katz, O., Osmanovic, A., Petri, S., Weiler, M., Ziegler, A., Kuttler, J., Koch, J.C., Schneider, I., Wunderlich, G., Schloss, N., Lehmann, H.C., Cordts, I., Deschauer, M., Lingor, P., Kamm, C., Stolte, B., Pietruck, L., Totzeck, A., Kizina, K., Mönninghoff, C., von Velsen, O., Ose, C., Reichmann, H., Forsting, M., Pechmann, A., Kirschner, J., Ludolph, A.C., Hermann, A., Kleinschnitz, C. (2020). Nusinersen in adults with 5q spinal muscular atrophy: a non-interventional, multicentre, observational cohort study *Lancet Neurol* *19*,317-325. DOI: 10.1016/S1474-4422(20)30037-5

- Han, X., Wu, P., Alberts, I., Zhou, H., Yu, H., Bargiotas, P., Yakushev, I., Wang, J., Höglinger, G., Förster, S., Bassetti, C., Oertel, W., Schwaiger, M., Huang, S.C., Cumming, P., Rominger, A., Jiang, J., Zuo, C., Shi, K. (2020). Characterizing the heterogeneous metabolic progression in idiopathic REM sleep behavior disorder *Neuroimage Clin* 27,102294. DOI: 10.1016/j.nicl.2020.102294
- Hauser, S.L., Bar-Or, A., Cohen, J.A., Comi, G., Correale, J., Coyle, P.K., Cross, A.H., de Seze, J., Leppert, D., Montalban, X., Selmaj, K., Wiendl, H., Kerloeguen, C., Willi, R., Li, B., Kakarieka, A., Tomic, D., Goodyear, A., Pingili, R., Häring, D.A., Ramanathan, K., Merschhemke, M., Kappos, L., ASCLEPIOS I and ASCLEPIOS II Trial Groups. (2020). Ofatumumab versus Teriflunomide in Multiple Sclerosis *N Engl J Med* 383,546-557. DOI: 10.1056/NEJMoa1917246
- Heitmann, H., Haller, B., Tiemann, L., Mühlau, M., Berthele, A., Tölle, T.R., Salmen, A., Ambrosius, B., Bayas, A., Asseyer, S., Hartung, H.P., Heesen, C., Stangel, M., Wildemann, B., Haars, S., Groppa, S., Luessi, F., Kümpfel, T., Nischwitz, S., Meuth, S.G., Klotz, L., Linker, R.A., Zettl, U.K., Ziemann, U., Tumani, H., Tackenberg, B., Zipp, F., Wiendl, H., Gold, R., Hemmer, B., Ploner, M., German Competence Network Multiple Sclerosis (KKNMS). (2020). Longitudinal prevalence and determinants of pain in multiple sclerosis: results from the German National Multiple Sclerosis Cohort study *Pain* 161,787-796. DOI: 10.1097/j.pain.0000000000001767
- Hensiek, N., Schreiber, F., Wimmer, T., Kaufmann, J., Machts, J., Fahlbusch, L., Garz, C., Vogt, S., Prudlo, J., Dengler, R., Petri, S., Nestor, P.J., Vielhaber, S., Schreiber, S. (2020). Sonographic and 3T-MRI-based evaluation of the tongue in ALS *Neuroimage Clin* 26,102233. DOI: 10.1016/j.nicl.2020.102233
- Hopfner, F., Mueller, S.H., Szymczak, S., Junge, O., Tittmann, L., May, S., Lohmann, K., Grallert, H., Lieb, W., Strauch, K., Müller-Nurasyid, M., Berger, K., Schormair, B., Winkelmann, J., Mollenhauer, B., Trenkwalder, C., Maetzler, W., Berg, D., Kasten, M., Klein, C., Höglinger, G.U., Gasser, T., Deuschl, G., Franke, A., Krawczak, M., Dempfle, A., Kuhlenbäumer, G. (2020). Private variants in PRKN are associated with late-onset Parkinson's disease *Parkinsonism Relat Disord* 75,24-26. DOI: 10.1016/j.parkreldis.2020.05.003
- Hopfner, F., Mueller, S.H., Szymczak, S., Junge, O., Tittmann, L., May, S., Lohmann, K., Grallert, H., Lieb, W., Strauch, K., Müller-Nurasyid, M., Berger, K., Schormair, B., Winkelmann, J., Mollenhauer, B., Trenkwalder, C., Maetzler, W., Berg, D., Kasten, M., Klein, C., Höglinger, G.U., Gasser, T., Deuschl, G., Franke, A., Krawczak, M., Dempfle, A., Kuhlenbäumer, G. (2020). Rare Variants in Specific Lysosomal Genes Are Associated With Parkinson's Disease *Mov Disord* 35,1245-1248. DOI: 10.1002/mds.28037
- Iankova, V., Respondek, G., Saranza, G., Painous, C., Camara, A., Compta, Y., Aiba, I., Balint, B., Giagkou, N., Josephs, K.A., Otsuki, M., Golbe, L.I., Bhatia, K.P., Stamelou, M., Lang, A.E., Höglinger, G.U., Movement Disorder Society-endorsed PSP Study Group. (2020). Video-tutorial for the Movement Disorder Society criteria for progressive supranuclear palsy *Parkinsonism Relat Disord* 78,200-203. DOI: 10.1016/j.parkreldis.2020.06.030
- Jabbari, E., Koga, S., Valentino, R.R., Reynolds, R.H., Ferrari, R., Tan, M.M.X., Rowe, J.B., Dalgard, C.L., Scholz, S.W., Dickson, D.W., Warner, T.T., Revesz, T., Höglinger, G.U., Ross, O.A., Ryten, M., Hardy, J., Shoai, M., Morris, H.R., PSP Genetics Group. (2021). Genetic determinants of survival in progressive supranuclear palsy: a genome-wide association study *Lancet Neurol* 20,107-116. DOI: 10.1016/S1474-4422(20)30394-X
- Jarius, S., Pellkofer, H., Siebert, N., Korporal-Kuhnke, M., Hümmert, M.W., Ringelstein, M., Rommer, P.S., Ayzenberg, I., Ruprecht, K., Klotz, L., Asgari, N., Zrzavy, T., Höftberger, R., Tobia, R., Buttman, M., Fechner, K., Schanda, K., Weber, M., Asseyer, S., Haas, J., Lechner, C., Kleiter, I., Aktas, O., Trebst, C., Rostasy, K., Reindl, M., Kümpfel, T., Paul, F., Wildemann, B., in cooperation with the Neuromyelitis Optica Study Group (NEMOS). (2020). Cerebrospinal fluid findings in patients with myelin oligodendrocyte glycoprotein (MOG) antibodies. Part 1: Results from 163 lumbar punctures in 100 adult patients *J Neuroinflammation* 17,261. DOI: 10.1186/s12974-020-01824-2
- Jecmenica Lukic, M., Kurz, C., Respondek, G., Grau-Rivera, O., Compta, Y., Gelpi, E., Troakes, C., Barcelona Brain Bank collaborative group, the MDS-endorsed PSP study group, van Swieten, J.C., Giese, A., Roeber, S., Arzberger, T., Höglinger, G. (2020). Copathology in Progressive Supranuclear Palsy: Does It Matter? *Mov Disord* 35,984-993. DOI: 10.1002/mds.28011
- Johnston, S.C., Amarenco, P., Denison, H., Evans, S.R., Himmelmann, A., James, S., Knutsson, M., Ladenvall, P., Molina, C.A., Wang, Y., THALES Investigators. (2020). Ticagrelor and Aspirin or Aspirin Alone in Acute Ischemic Stroke or TIA *N Engl J Med* 383,207-217. DOI: 10.1056/NEJMoa1916870
- Kaddatz, H., Joost, S., Nedelcu, J., Chrzanowski, U., Schmitz, C., Gingele, S., Gudi, V., Stangel, M., Zhan, J., Santrau, E., Greiner, T., Frenz, J., Müller-Hilke, B., Müller, M., Amor, S., van der Valk, P., Kipp, M. (2021). Cuprizone-induced demyelination triggers a CD8-pronounced T cell recruitment *Glia* 69,925-942. DOI: 10.1002/glia.23937
- Kermer, P., Eschenfelder, C.C., Diener, H.C., Grond, M., Abdalla, Y., Abraham, A., Althaus, K., Becks, G., Berrouschot, J., Berthel, J., Bode, F.J., Burghaus, L., Cangür, H., Daffertshofer, M., Edelbusch, S., Eggers, J., Gerlach, R., Gröschel, K., Grosse-Dresselhaus, F., Günther, A., Haase, C.G., Haensch, C.A., Harloff, A., Heckmann, J.G., Held, V., Hieber, M., Kauert, A., Kern, R., Kerz, T., Köhrmann, M., Kraft, P., Kühnlein, P., Latta, J., Leinisch, E., Lenz, A., Leithner, C., Neumann-Haefelin, T., Mäurer, M., Müllges, W., Nolte, C.H., Obermann, M., Partowi, S., Patzschke, P., Poli, S., Pulkowski, U., Purrucker, J., Rehfeldt, T., Ringleb, P.A., Röther, J., Rossi, R., El-Sabassy, H., Sauer, O., Schackert, G., Schäfer, N., Schellinger, P.D., Schneider, A., Schuppner, R., Schwab, S., Schwarte, O., Seitz, R.J., Senger, S., Shah, Y.P.,

- Sindern, E., Sparenberg, P., Steiner, T., Szabo, K., Urbanek, C., Sarnowski, B.V., Weissenborn, K., Wienecke, P., Witt, K., Wruck, R., Wunderlich, S. (2020). Antagonizing dabigatran by idarucizumab in cases of ischemic stroke or intracranial hemorrhage in Germany-Updated series of 120 cases *Int J Stroke* *15*,609-618. DOI: 10.1177/1747493019895654
- Klietz, M., Berndt, J.M., Wegner, F., Schneider, N., Höglinger, G.U., Eggers, C., Stiel, S. (2020). Consensus-Based Recommendations for Advance Directives of People with Parkinson's Disease in Regard to Typical Complications by German Movement Disorder Specialists *J Clin Med* *9*,E449 [pii]. DOI: 10.3390/jcm9020449
- Klietz, M., Drexel, S.C., Schnur, T., Lange, F., Groh, A., Paracka, L., Greten, S., Dressler, D., Höglinger, G.U., Wegner, F. (2020). Mindfulness and Psychological Flexibility are Inversely Associated with Caregiver Burden in Parkinson's Disease *Brain Sci* *10*,DOI: 10.3390/brain-sci10020111
- Klietz, M., Schnur, T., Drexel, S., Lange, F., Tulke, A., Rippena, L., Paracka, L., Dressler, D., Höglinger, G.U., Wegner, F. (2020). Association of Motor and Cognitive Symptoms with Health-Related Quality of Life and Caregiver Burden in a German Cohort of Advanced Parkinson's Disease Patients *Parkinsons Dis* *2020*,DOI: 10.1155/2020/5184084
- Klietz, M., Schnur, T., Drexel, S.C., Lange, F., Paracka, L., Huber, M.K., Dressler, D., Höglinger, G.U., Wegner, F. (2020). Alexithymia Is Associated with Reduced Quality of Life and Increased Caregiver Burden in Parkinson's Disease *Brain Sci* *10*,DOI: 10.3390/brain-sci10060401
- Konen, F.F., Wurster, U., Witte, T., Jendretzky, K.F., Gingele, S., Tumani, H., Sühs, K.W., Stangel, M., Schwenkenbecher, P., Skripuletz, T. (2020). The Impact of Immunomodulatory Treatment on Kappa Free Light Chains as Biomarker in Neuroinflammation Cells *9*,DOI: 10.3390/cells9040842
- Kopp, B., Steinke, A., Visalli, A. (2020). Cognitive flexibility and N2/P3 event-related brain potentials *Sci Rep* *10*,9859. DOI: 10.1038/s41598-020-66781-5
- Kovacs, G.G., Lukic, M.J., Irwin, D.J., Arzberger, T., Respondek, G., Lee, E.B., Coughlin, D., Giese, A., Grossman, M., Kurz, C., McMillan, C.T., Gelpi, E., Compta, Y., van Swieten, J.C., Laats, L.D., Troakes, C., Al-Sarraj, S., Robinson, J.L., Roeber, S., Xie, S.X., Lee, V.M., Trojanowski, J.Q., Höglinger, G.U. (2020). Distribution patterns of tau pathology in progressive supranuclear palsy *Acta Neuropathol* *140*,99-119. DOI: 10.1007/s00401-020-02158-2
- Kumar, R., Donakonda, S., Müller, S.A., Bötzel, K., Höglinger, G.U., Koeglsperger, T. (2020). FGF2 Affects Parkinson's Disease-Associated Molecular Networks Through Exosomal Rab8b/Rab31 *Front Genet* *11*,572058. DOI: 10.3389/fgene.2020.572058
- Kumar, R., Donakonda, S., Müller, S.A., Lichtenthaler, S.F., Bötzel, K., Höglinger, G.U., Koeglsperger, T. (2020). Basic Fibroblast Growth Factor 2-Induced Proteome Changes Endorse Lewy Body Pathology in Hippocampal Neurons *iScience* *23*,101349. DOI: 10.1016/j.isci.2020.101349
- Kumar, R., Tang, Q., Müller, S.A., Gao, P., Mahlstedt, D., Zampagni, S., Tan, Y., Klingl, A., Bötzel, K., Lichtenthaler, S.F., Höglinger, G.U., Koeglsperger, T. (2020). Fibroblast Growth Factor 2-Mediated Regulation of Neuronal Exosome Release Depends on VAMP3/Cellubrevin in Hippocampal Neurons *Adv Sci (Weinh)* *7*,1902372. DOI: 10.1002/adv.201902372
- Kutschenko, A., Klietz, M., Paracka, L., Kollwe, K., Schulte-Sutum, A., Janssen, T., Schrader, C., Wegner, F., Dressler, D. (2020). Dysphagia in cervical dystonia patients receiving optimised botulinum toxin therapy: a single-center retrospective cohort study *J Neural Transm (Vienna)* *127*,1161-1165. DOI: 10.1007/s00702-020-02220-z
- Lewis, R.A., Cornblath, D.R., Hartung, H.P., Sobue, G., Lawo, J.P., Mielke, O., Durn, B.L., Bril, V., Merkies, I.S.J., Bassett, P., Cleasby, A., van Schaik, I.N., PATH study group. (2020). Placebo effect in chronic inflammatory demyelinating polyneuropathy: The PATH study and a systematic review *J Peripher Nerv Syst* *25*,230-237. DOI: 10.1111/jns.12402
- Liao, C., Sarayloo, F., Rochefort, D., Houle, G., Akcimen, F., He, Q., Laporte, A.D., Spiegelman, D., Poewe, W., Berg, D., Müller, S., Hopfner, F., Deuschl, G., Kuhlentbauer, G., Rajput, A., Dion, P.A., Rouleau, G.A. (2020). Multiomics Analyses Identify Genes and Pathways Relevant to Essential Tremor *Mov Disord* *35*,1153-1162. DOI: 10.1002/mds.28031
- Ludolph, A.C., Dorst, J., Dreyhaupt, J., Weishaupt, J.H., Kassubek, J., Weiland, U., Meyer, T., Petri, S., Hermann, A., Emmer, A., Grosskreutz, J., Grehl, T., Zeller, D., Boentert, M., Schrank, B., Prudlo, J., Winkler, A.S., Gorbulev, S., Roselli, F., Schuster, J., Dupuis, L., LIPCAL-ALS Study Group. (2020). Effect of High-Caloric Nutrition on Survival in Amyotrophic Lateral Sclerosis *Ann Neurol* *87*,206-216. DOI: 10.1002/ana.25661

- Luo, Y., Möhn, N., Al-Mekhlafi, A., Schuchardt, S., Skripuletz, T., Sühs, W., Pessler, F., Stangel, M. (2020). Targeted metabolomic profiling of cerebrospinal fluid from patients with progressive multifocal leukoencephalopathy *PLoS One* *15*,e0242321. DOI: 10.1371/journal.pone.0242321
- Machts, J., Keute, M., Kaufmann, J., Schreiber, S., Kasper, E., Petri, S., Prudlo, J., Vielhaber, S., Schoenfeld, M.A. (2021). Longitudinal clinical and neuroanatomical correlates of memory impairment in motor neuron disease *NeuroImage Clin* *29*,102545. DOI: 10.1016/j.nicl.2020.102545
- Möhn, N., Luo, Y., Skripuletz, T., Schwenkenbecher, P., Ladwig, A., Warnke, C., Meuth, S.G., Wiendl, H., Gross, C.C., Schröder, C., Haghikia, A., Stangel, M. (2020). Cerebrospinal fluid analysis in 108 patients with progressive multifocal leukoencephalopathy *Fluids Barriers CNS* *17*,65. DOI: 10.1186/s12987-020-00227-y
- Möhn, N., Mahjoub, S., Gutzmer, R., Satzger, I., Beutel, G., Ivanyi, P., Golpon, H., Wattjes, M.P., Stangel, M., Skripuletz, T. (2020). Diagnosis and Differential Diagnosis of Neurological Adverse Events during Immune Checkpoint Inhibitor Therapy *J Oncol* *2020*,DOI: 10.1155/2020/8865054
- Möhn, N., Pul, R., Kleinschnitz, C., Prüss, H., Witte, T., Stangel, M., Skripuletz, T. (2020). Implications of COVID-19 Outbreak on Immune Therapies in Multiple Sclerosis Patients-Lessons Learned From SARS and MERS *Front Immunol* *11*,1059. DOI: 10.3389/fimmu.2020.01059
- Moschny, N., Jahn, K., Maier, H.B., Khan, A.Q., Ballmaier, M., Liepach, K., Sack, M., Skripuletz, T., Bleich, S., Frieling, H., Neyazi, A. (2020). Electroconvulsive therapy, changes in immune cell ratios, and their association with seizure quality and clinical outcome in depressed patients *Eur Neuropsychopharmacol* *36*,18-28. DOI: 10.1016/j.euroneuro.2020.03.019
- Müller-Vahl, K.R., Bindila, L., Lutz, B., Musshoff, F., Skripuletz, T., Baumgaertel, C., Sühs, K.W. (2020). Cerebrospinal fluid endocannabinoid levels in Gilles de la Tourette syndrome. *Neuropsychopharmacology* *45*,1323-1329. DOI: 10.1038/s41386-020-0671-6
- Murphy, L.B., Schreiber-Katz, O., Rafferty, K., Robertson, A., Topf, A., Willis, T.A., Heidemann, M., Thiele, S., Bindoff, L., Laurent, J.P., Lochmüller, H., Mathews, K., Mitchell, C., Stevenson, J.H., Vissing, J., Woods, L., Walter, M.C., Straub, V. (2020). Global FKRP Registry: observations in more than 300 patients with Limb Girdle Muscular Dystrophy R9 *Ann Clin Transl Neurol* *7*,757-766. DOI: 10.1002/acn3.51042
- Ohlmeier, C., Gothe, H., Haas, J., Osowski, U., Weinhold, C., Blauwitz, S., Schmedt, N., Galetzka, W., Berkemeier, F., Tackenberg, B., Stangel, M. (2020). Epidemiology, characteristics and treatment of patients with relapsing remitting multiple sclerosis and incidence of high disease activity: Real world evidence based on German claims data *PLoS One* *15*,e0231846. DOI: 10.1371/journal.pone.0231846
- Osmanovic, A., Ranxha, G., Kumpe, M., Müschen, L., Binz, C., Wiehler, F., Paracka, L., Körner, S., Kollwe, K., Petri, S., Schreiber-Katz, O. (2020). Treatment expectations and patient-reported outcomes of nusinersen therapy in adult spinal muscular atrophy *J Neurol* *267*,2398-2407. DOI: 10.1007/s00415-020-09847-8
- Osmanovic, A., Widjaja, M., Förster, A., Weder, J., Wattjes, M.P., Lange, I., Sarikidi, A., Auber, B., Raab, P., Christians, A., Preller, M., Petri, S., Weber, R.G. (2020). SPG7 mutations in amyotrophic lateral sclerosis: a genetic link to hereditary spastic paraplegia *J Neurol* *267*,2732-2743. DOI: 10.1007/s00415-020-09861-w
- Osmanovic, A., Wieselmann, G., Mix, L., Siegler, H.A., Kumpe, M., Ranxha, G., Wurster, C.D., Steinke, A., Ludolph, A.C., Kopp, B., Lule, D., Petri, S., Schreiber-Katz, O. (2020). Cognitive Performance of Patients with Adult 5q-Spinal Muscular Atrophy and with Amyotrophic Lateral Sclerosis *Brain Sci* *11*,DOI: 10.3390/brainsci11010008
- Ostkamp, P., Salmen, A., Pignolet, B., Görlich, D., Andlauer, T.F.M., Schulte-Mecklenbeck, A., Gonzalez-Escamilla, G., Bucciarelli, F., Gennero, I., Breuer, J., Antony, G., Schneider-Hohendorf, T., Mykicky, N., Bayas, A., Then Bergh, F., Bittner, S., Hartung, H.P., Friese, M.A., Linker, R.A., Luessi, F., Lehmann-Horn, K., Mühlau, M., Paul, F., Stangel, M., Tackenberg, B., Tumani, H., Warnke, C., Weber, F., Wildemann, B., Zettl, U.K., Ziemann, U., Müller-Myhsok, B., Kümpfel, T., Klotz, L., Meuth, S.G., Zipp, F., Hemmer, B., Hohlfeld, R., Brassat, D., Gold, R., Gross, C.C., Lukas, C., Groppa, S., Loser, K., Wiendl, H., Schwab, N., German Competence Network Multiple Sclerosis (KKNMS) and the BIONAT Network. (2021). Sunlight exposure exerts immunomodulatory effects to reduce multiple sclerosis severity *Proc Natl Acad Sci U S A* *118*,DOI: 10.1073/pnas.2018457118
- Palleis, C., Sauerbeck, J., Beyer, L., Harris, S., Schmitt, J., Morenas-Rodriguez, E., Finze, A., Nitschmann, A., Ruch-Rubinstein, F., Eckenweber, F., Biechele, G., Blume, T., Shi, Y., Weidinger, E., Prix, C., Bötzel, K., Danek, A., Rauchmann, B.S., Stöcklein, S., Lindner, S., Untertanner, M., Albert, N.L., Wetzel, C., Rupprecht, R., Rominger, A., Bartenstein, P., Herms, J., Pernecky, R., Haass, C., Levin, J., Höglinger, G.U., Brendel, M. (2021). In Vivo Assessment of Neuroinflammation in 4-Repeat Tauopathies *Mov Disord* *36*,883-894. DOI: 10.1002/mds.28395

- Pan, H., Steixner-Kumar, A.A., Seelbach, A., Deutsch, N., Ronnenberg, A., Tapken, D., von Ahsen, N., Mitjans, M., Worthmann, H., Trippe, R., Klein-Schmidt, C., Schopf, N., Rentzsch, K., Begemann, M., Wienands, J., Stöcker, W., Weissenborn, K., Hollmann, M., Nave, K.A., Luhder, F., Ehrenreich, H. (2021). Multiple inducers and novel roles of autoantibodies against the obligatory NMDAR subunit NR1: a translational study from chronic life stress to brain injury *Mol Psychiatry* *26*,2471-2482. DOI: 10.1038/s41380-020-0672-1
- Pannewitz-Makaj, K., Wurster, U., Jendretzky, K.F., Gingele, S., Sühs, K.W., Stangel, M., Skripuletz, T., Schwenkenbecher, P. (2020). Evidence of Oligoclonal Bands Does Not Exclude Non-Inflammatory Neurological Diseases *Diagnostics (Basel)* *11*,DOI: 10.3390/diagnostics11010037
- Paracka, L., Wegner, F., Escher, C., Klietz, M., de Zwaan, M., Abdallat, M., Saryyeva, A., Krauss, J.K. (2020). Body Concept and Quality of Life in Patients with Idiopathic Dystonia. *Brain Sci* *10*,E488 [pii]. DOI: 10.3390/brainsci10080488
- Pekrul, M., Seer, C., Lange, F., Dressler, D., Kopp, B. (2020). Flanker Task Performance in Isolated Dystonia (Blepharospasm): A Focus on Sequential Effects *Brain Sci* *10*,DOI: 10.3390/brainsci10020076
- Pereira, M., Gromicho, M., Henriques, A., Pronto-Laborinho, A.C., Grosskreutz, J., Kuzma-Kozakiewicz, M., Petri, S., Uysal, H., Swash, M., de Carvalho, M. (2021). Cardiovascular comorbidities in amyotrophic lateral sclerosis *J Neurol Sci* *421*,117292. DOI: 10.1016/j.jns.2020.117292
- Pflugrad, H., Nösel, P., Ding, X., Schmitz, B., Lanfermann, H., Barg-Hock, H., Klemptner, J., Schiffer, M., Weissenborn, K. (2020). Brain function and metabolism in patients with long-term tacrolimus therapy after kidney transplantation in comparison to patients after liver transplantation. *PLoS One* *15*,e0229759. DOI: 10.1371/journal.pone.0229759
- Piot, I., Schweyer, K., Respondek, G., Stamelou, M., DescribePSP study group, ProPSP study group, MDS-endorsed PSP study group, Sckopke, P., Schenk, T., Goetz, C.G., Stebbins, G.T., Höglinger, G.U. (2020). The Progressive Supranuclear Palsy Clinical Deficits Scale *Mov Disord* *35*,650-661. DOI: 10.1002/mds.27964
- Reichmann, H., Lees, A., Rocha, J.F., Magalhaes, D., Soares-da-Silva, P., OPTIPARK investigators. (2020). Effectiveness and safety of opi-capone in Parkinson's disease patients with motor fluctuations: the OPTIPARK open-label study *Transl Neurodegener* *9*,9. DOI: 10.1186/s40035-020-00187-1
- Sailani, M.R., Jahanbani, F., Abbott, C.W., Lee, H., Zia, A., Rego, S., Winkelmann, J., Hopfner, F., Khan, T.N., Katsanis, N., Müller, S.H., Berg, D., Lyman, K.M., Mychajliw, C., Deuschl, G., Bernstein, J.A., Kuhlenbäumer, G., Snyder, M.P. (2020). Candidate variants in TUB are associated with familial tremor. *PLoS Genet* *16*,e1009010. DOI: 10.1371/journal.pgen.1009010
- Schijven, D., Stevelink, R., McCormack, M., van Rheenen, W., Luykx, J.J., Koeleman, B.P.C., Veldink, J.H., Project MinE ALS Consortium, International League Against Epilepsy Consortium on Complex Epilepsies. (2020). Analysis of shared common genetic risk between amyotrophic lateral sclerosis and epilepsy *Neurobiol Aging* *92*,153.e1-153.e5. DOI: 10.1016/j.neurobiolaging.2020.04.011
- Schönfelder, E., Osmanovic, A., Müschen, L.H., Petri, S., Schreiber-Katz, O. (2020). Costs of illness in amyotrophic lateral sclerosis (ALS): a cross-sectional survey in Germany *Orphanet J Rare Dis* *15*,149. DOI: 10.1186/s13023-020-01413-9
- Schreiber, F., Garz, C., Heinze, H.J., Petri, S., Vielhaber, S., Schreiber, S. (2020). Textural markers of ultrasonographic nerve alterations in amyotrophic lateral sclerosis *Muscle Nerve* *62*,601-610. DOI: 10.1002/mus.27043
- Seeliger, T., Böinig, L., Witte, T., Thiele, T., Lesinski-Schiedat, A., Stangel, M., Lenarz, T., Prenzler, N.C., Skripuletz, T. (2020). Hearing dysfunction in patients with Neuro-Sjogren: a cross-sectional study *Ann Transl Med* *8*,1069-20-1856. DOI: 10.21037/atm-20-1856
- Seeliger, T., Jacobsen, L., Hendel, M., Böinig, L., Kristian Prenzler, N.K., Thiele, T., Ernst, D., Witte, T., Stangel, M., Kopp, B., Skripuletz, T. (2020). Cognitive impairment in patients with Neuro-Sjogren *Ann Clin Transl Neurol* *7*,1352-1359. DOI: 10.1002/acn3.51123
- Senderek, J., Lassuthova, P., Kabzinska, D., Abreu, L., Baets, J., Beetz, C., Braathen, G.J., Brenner, D., Dalton, J., Dankwa, L., Deconinck, T., De Jonghe, P., Dräger, B., Eggermann, K., Ellis, M., Fischer, C., Stojkovic, T., Herrmann, D.N., Horvath, R., Hoyer, H., Iglseider, S., Kennerson, M., Kinslechner, K., Kohler, J.N., Kurth, I., Laing, N.G., Lamont, P.J., Wolfgang, N.L., Ludolph, A., Marques, W., Jr, Nicholson, G., Ong, R., Petri, S., Ravenscroft, G., Rebelo, A., Ricci, G., Rudnik-Schoneborn, S., SchirmacheröA., Schlotter-Weigel, B., Schoels, L., Schule, R., Synofzik, M., Francüu, B., Strom, T.M., Wagner, J., Walk, D., Wanschitz, J., Weinmann, D., Weishaupt, J., Wiessner, M., Windhager, R., Young, P., Züchner, S., Toegel, S., Seeman, P., Kochanski, A., Auer-Grumbach, M. (2020). The genetic landscape of axonal neuropathies in the middle-aged and elderly: Focus on MME *Neurology* *95*,e3163-e3179. DOI: 10.1212/WNL.00000000000011132
- Sieweke, J.T., Pfeffer, T.J., Biber, S., Chatterjee, S., Weissenborn, K., Grosse, G.M., Hagemus, J., Derda, A.A., Berliner, D., Lichtinghagen, R., Hilfiger-Kleiner, D., Bauersachs, J., Bär, C., Thum, T., Bavendiek, U. (2020). miR-21 and NT-proBNP Correlate with Echocardiographic Parameters of Atrial Dysfunction and Predict Atrial Fibrillation *J Clin Med* *9*,DOI: 10.3390/jcm9041118

- Siongco, P.R.L., Rosales, R.L., Moore, A.P., Freynhagen, R., Arimura, K., Kanovsky, P., Kaji, R., Fernandez, H.H., Dressler, D. (2020). Botulinum neurotoxin injections for muscle-based (dystonia and spasticity) and non-muscle-based (neuropathic pain) pain disorders: a meta-analytic study *J Neural Transm (Vienna)* 127,935-951. DOI: 10.1007/s00702-020-02163-5
- Sogkas, G., Hirsch, S., Olsson, K.M., Hinrichs, J.B., Thiele, T., Seeliger, T., Skripuletz, T., Schmidt, R.E., Witte, T., Jablonka, A., Ernst, D. (2020). Lung Involvement in Primary Sjogren's Syndrome-An Under-Diagnosed Entity *Front Med (Lausanne)* 7,332. DOI: 10.3389/fmed.2020.00332
- Stahl, K., Schmidt, B.M.W., Hoepfer, M.M., Skripuletz, T., Möhn, N., Beutel, G., Eder, M., Welte, T., Ganser, A., Falk, C.S., Koenecke, C., David, S. (2020). Extracorporeal cytokine removal in severe CAR-T cell associated cytokine release syndrome *J Crit Care* 57,124-129. DOI: 10.1016/j.jcrc.2020.02.010
- Stauss, R.D., Grosse, G.M., Neubert, L., Falk, C.S., Jonigk, D., Kühnel, M.P., Gabriel, M.M., Schuppner, R., Lichtinghagen, R., Wilhelmi, M., Weissenborn, K., Schimpf, C. (2020). Distinct systemic cytokine networks in symptomatic and asymptomatic carotid stenosis. *Sci Rep* 10,21963. DOI: 10.1038/s41598-020-78941-8
- Steinke, A., Kopp, B. (2020). RELEX: An Excel-based software tool for sampling split-half reliability coefficients. *Methods in psychology* 2,100023. DOI: 10.1016/j.metip.2020.100023
- Steinke, A., Lange, F., Kopp, B. (2020). Parallel model-based and model-free reinforcement learning for card sorting performance *Sci Rep* 10,15464. DOI: 10.1038/s41598-020-72407-7
- Steinke, A., Lange, F., Seer, C., Hendel, M.K., Kopp, B. (2020). Computational Modeling for Neuropsychological Assessment of Bradyphrenia in Parkinson's Disease *J Clin Med* 9,DOI: 10.3390/jcm9041158
- Steinke, A., Lange, F., Seer, C., Petri, S., Kopp, B. (2020). A Computational Study of Executive Dysfunction in Amyotrophic Lateral Sclerosis *J Clin Med* 9,DOI: 10.3390/jcm9082605
- Uysal, H., Bilge, U., Ilhanli, N., Gromicho, M., Grosskreutz, J., Kuzma-Kozakiewicz, M., Pinto, S., Petri, S., Szacka, K., Nieporecki, K., De Carvalho, M. (2021). ALS and fertility: does ALS affect number of children patients have? *Amyotroph Lateral Scler Frontotemporal Degener* 22,94-100. DOI: 10.1080/21678421.2020.1813313
- van Gemmeren, T., Schuppner, R., Grosse, G.M., Fering, J., Gabriel, M.M., Huber, R., Worthmann, H., Lichtinghagen, R., Weissenborn, K. (2020). Early Post-Stroke Infections Are Associated with an Impaired Function of Neutrophil Granulocytes. *J Clin Med* 9,E872 [pii]. DOI: 10.3390/jcm9030872
- Vogt, S., Schreiber, S., Pfau, G., Kollwe, K., Heinze, H.J., Dengler, R., Petri, S., Vielhaber, S., Brinkers, M. (2020). Dyspnea as a Fatigue-Promoting Factor in ALS and the Role of Objective Indicators of Respiratory Impairment *J Pain Symptom Manage* 60,430-438.e1. DOI: 10.1016/j.jpainsymman.2020.02.021
- Walter, U., Mühlenhoff, C., Benecke, R., Dressler, D., Mix, E., Alt, J., Wittstock, M., Dudesek, A., Storch, A., Kamm, C. (2020). Frequency and risk factors of antibody-induced secondary failure of botulinum neurotoxin therapy *Neurology* 94,e2109-e2120. DOI: 10.1212/WNL.0000000000009444
- Warren, C.V., Maraver, M.J., de Luca, A., Kopp, B. (2020). The Effect of Transcutaneous Auricular Vagal Nerve Stimulation (taVNS) on P3 Event-Related Potentials during a Bayesian Oddball Task *Brain Sci* 10,DOI: 10.3390/brainsci10060404
- Welland, S., Janssen, C., Ringe, K.I., Höglinger, G., Manns, M.P., Mederacke, I. (2021). Massivste epigastrische Schmerzen bei einem 59-jährigen Patienten *Internist (Berl)* 62,207-211. DOI: 10.1007/s00108-020-00905-x
- Wimmer, T., Schreiber, F., Hensiek, N., Garz, C., Kaufmann, J., Machts, J., Vogt, S., Prudlo, J., Dengler, R., Petri, S., Heinze, H.J., Nestor, P.J., Vielhaber, S., Schreiber, S. (2020). The upper cervical spinal cord in ALS assessed by cross-sectional and longitudinal 3T MRI *Sci Rep* 10,1783. DOI: 10.1038/s41598-020-58687-z
- Winkel, A., Jaimes, Y., Melzer, C., Dillschneider, P., Hartwig, H., Stiesch, M., von der Ohe, J., Strauss, S., Vogt, P.M., Hamm, A., Burmeister, L., Roger, Y., Elger, K., Floerkemeier, T., Weissinger, E.M., Pogozykh, O., Müller, T., Selich, A., Rothe, M., Petri, S., Köhl, U., Hass, R., Hoffmann, A. (2020). Cell culture media notably influence properties of human mesenchymal stroma/stem-like cells from different tissues. *Cytherapy* 22,653-668. DOI: 10.1016/j.jcjt.2020.07.005

Zella, M.A.S., Bartig, D., Herrmann, L., Respondek, G., Höglinger, G., Gold, R., Voitalla, D., Krogias, C., Tönges, L. (2020). Hospitalization Rates and Comorbidities in Patients with Progressive Supranuclear Palsy in Germany from 2010 to 2017 *J Clin Med* *9*, DOI: 10.3390/jcm9082454

Leitlinien von Fachgesellschaften

Tumani, H., Petereit, H.F., Gerritzen, A., Gross, C.C., Huss, A., Isenmann, S., Jesse, S., Khalil, M., Lewczuk, P., Lewerenz, J., Leyboldt, F., Melzer, N., Meuth, S.G., Otto, M., Ruprecht, K., Sindern, E., Spreer, A., Stangel, M., Strik, H., Uhr, M., Vogelgsang, J., Wandinger, K.P., Weber, T., Wick, M., Wildemann, B., Wiltfang, J., Voitalla, D., Zerr, I., Zimmermann, T. (2020). S1 guidelines "lumbar puncture and cerebrospinal fluid analysis" (abridged and translated version) *Neurol Res Pract* *2*, DOI: 10.1186/s42466-020-0051-z

Übersichtsarbeiten

Dressler, D. (2020). Therapeutically relevant features of botulinum toxin drugs. *Toxicon* *175*, 64-68. DOI: 10.1016/j.toxicon.2019.12.005

Dressler, D., Adib Saberi, F., Rosales, R.L. (2021). Botulinum toxin therapy of dystonia *J Neural Transm (Vienna)* *128*, 531-537. DOI: 10.1007/s00702-020-02266-z

Ehrenreich, H., Weissenborn, K., Begemann, M., Busch, M., Vieta, E., Miskowiak, K.W. (2020). Erythropoietin as candidate for supportive treatment of severe COVID-19 *Mol Med* *26*, 58. DOI: 10.1186/s10020-020-00186-y

Gingele, S., Stangel, M. (2020). Emerging myelin repair agents in preclinical and early clinical development for the treatment of multiple sclerosis *Expert Opin Investig Drugs* *29*, 583-594. DOI: 10.1080/13543784.2020.1762567

Grosse, G.M., Schwedhelm, E., Worthmann, H., Choe, C.U. (2020). Arginine Derivatives in Cerebrovascular Diseases: Mechanisms and Clinical Implications *Int J Mol Sci* *21*, DOI: 10.3390/ijms21051798

Hansen, N., Lipp, M., Vogelgsang, J., Vukovich, R., Zindler, T., Luedecke, D., Gingele, S., Malchow, B., Frieling, H., Kühn, S., Denk, J., Gallinat, J., Skripuletz, T., Moschny, N., Fiehler, J., Riedel, C., Wiedemann, K., Wattjes, M.P., Zerr, I., Esselmann, H., Bleich, S., Wiltfang, J., Neyazi, A. (2020). Autoantibody-associated psychiatric symptoms and syndromes in adults: A narrative review and proposed diagnostic approach. *Brain, Behavior, & Immunity - Health* *9*, 100154. DOI: 10.1016/j.bbih.2020.100154

Hopfner, F., Deuschl, G. (2020). Managing Essential Tremor *Neurotherapeutics* *17*, 1603-1621. DOI: 10.1007/s13311-020-00899-2

Hopfner, F., Hoglinger, G.U., Kühlenbaumer, G., Pottgard, A., Wod, M., Christensen, K., Tanner, C.M., Deuschl, G. (2020). beta-adrenoreceptors and the risk of Parkinson's disease *Lancet Neurol* *19*, 247-254. DOI: 10.1016/S1474-4422(19)30400-4

Kuraszkiewicz, B., Goszczynska, H., Podsiadly-Marczykowska, T., Piotrkiewicz, M., Andersen, P., Gromicho, M., Grosskreutz, J., Kuzma-Kozakiewicz, M., Petri, S., Stubbendorf, B., Szacka, K., Uysal, H., de Carvalho, M. (2020). Potential Preventive Strategies for Amyotrophic Lateral Sclerosis *Front Neurosci* *14*, 428. DOI: 10.3389/fnins.2020.00428

Möhn, N., Könecke, C., Skripuletz, T. (2020). Neurotoxizität unter CAR-T-Zell-Therapie (CAR: chimärer Antigenrezeptor). *DGNeurologie* *3*, 241-250. DOI: 10.1007/s42451-020-00172-y

Möhn, N., Koenen, F.F., Pul, R., Kleinschnitz, C., Prüss, H., Witte, T., Stangel, M., Skripuletz, T. (2020). Experience in Multiple Sclerosis Patients with COVID-19 and Disease-Modifying Therapies: A Review of 873 Published Cases. *J Clin Med* *9*, DOI: 10.3390/jcm9124067

Pellecchia, M.T., Stankovic, I., Fanciulli, A., Krismer, F., Meissner, W.G., Palma, J.A., Panicker, J.N., Seppi, K., Wenning, G.K., Members of the Movement Disorder Society Multiple System Atrophy Study Group. (2020). Can Autonomic Testing and Imaging Contribute to the Early Diagnosis of Multiple System Atrophy? A Systematic Review and Recommendations by the Movement Disorder Society Multiple System Atrophy Study Group *Mov Disord Clin Pract* *7*, 750-762. DOI: 10.1002/mdc3.13052

Steinke, A., Kopp, B. (2020). Toward a Computational Neuropsychology of Cognitive Flexibility *Brain Sci* *10*, DOI: 10.3390/brain-sci10121000

Letter

Campos, C.F., Gromicho, M., Uysal, H., Grosskreutz, J., Kuzma-Kozakiewicz, M., Pinto, S., Petri, S., de Carvalho, M. (2020). Family history of neurodegenerative disorders in patients with amyotrophic lateral sclerosis: population-based case-control study *J Neurol Neurosurg Psychiatry* *91*, 671-672. DOI: 10.1136/jnnp-2019-322561

deCarvalho, M., Gromicho, M., Andersen, P., Grosskreutz, J., Kuzma-Kozakiewicz, M., Petri, S., Uysal, H., Pinto, S. (2020). Peripheral neuropathy in ALS: phenotype association *J Neurol Neurosurg Psychiatry* DOI: 10.1136/jnnp-2020-325164

Dorst, J., Schuster, J., Dreyhaupt, J., Witzel, S., Weishaupt, J.H., Kassubek, J., Weiland, U., Petri, S., Meyer, T., Grehl, T., Hermann, A., Jordan, B., Grosskreutz, J., Zeller, D., Boentert, M., Schrank, B., Prudlo, J., Winkler, A.S., Gorbulev, S., Roselli, F., Dupuis, L., Otto, M., Ludolph, A.C. (2020).Effect of high-caloric nutrition on serum neurofilament light chain levels in amyotrophic lateral sclerosis *J Neurol Neurosurg Psychiatry* *91*,1007-1009. DOI: 10.1136/jnnp-2020-323372

Meyer, T., Kettemann, D., Maier, A., Grehl, T., Weyen, U., Grosskreutz, J., Steinbach, R., Norden, J., George, A., Hermann, A., Guenther, R., Petri, S., Schreiber-Katz, O., Dorst, J., Ludolph, A.C., Walter, B., Münch, C., Spittel, S. (2020).Symptomatic pharmacotherapy in ALS: data analysis from a platform-based medication management programme *J Neurol Neurosurg Psychiatry* *91*,783-785. DOI: 10.1136/jnnp-2020-322938

Ringelstein, M., Harmel, J., Zimmermann, H., Brandt, A.U., Paul, F., Haarmann, A., Buttmann, M., Hümmert, M.W., Trebst, C., Schroeder, C., Ayzenberg, I., Kleiter, I., Hellwig, K., Havla, J., Kümpfel, T., Jarius, S., Wildemann, B., Rommer, P., Weber, M., Pellkofer, H., Röpke, L., Geis, C., Retzlaff, N., Zettl, U., Deppe, M., Klotz, L., Young, K., Stellmann, J.P., Kaste, M., Kermer, P., Marouf, W., Lauda, F., Tumani, H., Graf, J., Klistorner, S., Hartung, H.P., Aktas, O., Albrecht, P. (2020).Author response: Longitudinal optic neuritis-unrelated visual evoked potential changes in NMO spectrum disorders *Neurology* *95*,610. DOI: 10.1212/WNL.0000000000010633

Stamelou, M., Höglinger, G.U. (2020).The "zig-zag" sign in progressive supranuclear palsy - The slowness of vertical saccades was the clue Parkinsonism Relat Disord *83*,6-7. DOI: 10.1016/j.parkreldis.2020.12.010

Winkler, A.S., Knauss, S., Schmutzhard, E., Leonardi, M., Padovani, A., Abd-Allah, F., Charway-Felli, A., Emmrich, J.V., Umapathi, T., Satishchandra, P., Hoo, F.K., Dalmau, J., Oreja-Guevara, C., Ferreira, M.L.B., Pfausler, B., Michael, B.D., Tagliavini, F., Höglinger, G., Endres, M., Klein, C., Hemmer, B., Carroll, W., Sejvar, J., Solomon, T. (2020).A call for a global COVID-19 Neuro Research Coalition *Lancet Neuro* *19*,482-484. DOI: 10.1016/S1474-4422(20)30150-2

Case reports

Huber, M., Rogozinski, S., Puppe, W., Framme, C., Höglinger, G., Hufendiek, K., Wegner, F. (2020).Postinfectious Onset of Myasthenia Gravis in a COVID-19 Patient *Front Neurol* *11*,576153. DOI: 10.3389/fneur.2020.576153

Möhn, N., Saker, F., Bonda, V., Respondek, G., Bachmann, M., Stoll, M., Wattjes, M.P., Stangel, M., Skripuletz, T. (2020).Mild COVID-19 symptoms despite treatment with teriflunomide and high-dose methylprednisolone due to multiple sclerosis relapse *J Neurol* *267*,2803-2805. DOI: 10.1007/s00415-020-09921-1

Palleis, C., Morenas-Rodriguez, E., Murcia, F.J.M., Giese, A., Nuscher, B., Haass, C., Höglinger, G., Bötzel, K., Levin, J. (2020).Longitudinal correlation between neurofilament light chain and UMSARS in Multiple System Atrophy *Clin Neurol Neurosurg* *195*,105924. DOI: 10.1016/j.clineuro.2020.105924

Ratuszny, D., Skripuletz, T., Wegner, F., Gross, M., Falk, C., Jacobs, R., Ruschulte, H., Stangel, M., Sühs, K.W. (2020).Case Report: Daratumumab in a Patient With Severe Refractory Anti-NMDA Receptor Encephalitis *Front Neurol* *11*,602102. DOI: 10.3389/fneur.2020.602102

Saryyeva, A., Capelle, H.H., Kinfe, T.M., Schrader, C., Krauss, J.K. (2021).Pallidal Deep Brain Stimulation in Patients with Prior Bilateral Pallidotomy and Selective Peripheral Denervation for Treatment of Dystonia *Stereotact Funct Neurosurg* *99*,1-5. DOI: 10.1159/000509822

Schreiber, S., Schreiber, F., Peter, A., Isler, E., Dörner, M., Heinze, H.J., Petri, S., Tempelmann, C., Nestor, P.J., Grimm, A., Vielhaber, S. (2020).7T MR neurography-ultrasound fusion for peripheral nerve imaging *Muscle Nerve* *61*,521-526. DOI: 10.1002/mus.26800

Szejko, N., Fremer, C., Sühs, K.W., Macul Ferreira de Barros, P., Müller-Vahl, K.R. (2020).Intravenous Immunoglobulin Treatment Did Not Improve Tics in a Patient With Gilles de la Tourette Syndrome and Intrathecal Antibody Synthesis. *Front Neurol* *11*,110. DOI: 10.3389/fneur.2020.00110

Thiele, T., Seeliger, T., Witte, T., Sander, B., Skripuletz, T., Ernst, D. (2020).Schwere Polyneuropathie bei primärem Sjogren-Syndrom : Bei Patienten mit motorischen Neuropathien auch an Sjogren-Syndrom denken! *Z Rheumatol* *79*,707-709. DOI: 10.1007/s00393-020-00821-3

Editorials

Meissner, W.G., Höglinger, G.U. (2020).Looking into the prediagnostic phase of progressive supranuclear palsy Parkinsonism Relat Disord *74*,74-75. DOI: 10.1016/j.parkreldis.2020.04.006

Respondek, G., Compta, Y. (2020).Primary progressive apraxia of speech: A further piece in the progressive supranuclear/corticobasal degeneration spectrum jigsaw Parkinsonism Relat Disord *81*,219-220. DOI: 10.1016/j.parkreldis.2020.11.004

Buchbeiträge, Monografien

Seifert, R., Stangel, M. (2020). Pharmakologische Behandlung der multiplen Sklerose. In: Arzneiverordnungs-Report 2020, Schwabe U., eds. (Berlin, Heidelberg: Springer) pp. 653-670

sonstiges

Jecmenica-Lukic, M., Respondek, G., Höglinger, G. (2020). Reply to: 'Letter to the Editor on "Copathology Progressive Supranuclear Palsy: Does It Matter?"' *Mov Disord* *35*,2126. DOI: 10.1002/mds.28309

Respondek, G., Piot, I., Höglinger, G.U. (2020). Reply to: "Brief Clinical Rating Scales Should Not Be Overlooked" *Mov Disord* *35*,1886. DOI: 10.1002/mds.28273

Habilitationen

Pflugrad, H. (2020). Untersuchungen zur Neurotoxizität von Calcineurininhibitoren nach Lebertransplantation. Kumulative Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Promotionen

Böckmann, M. (2020). Abhängigkeit der mechanischen Rekanalisationsrate und des klinischen Outcome bei akuten intrakraniellen Gefäßverschlüssen vom Gerinnungs- und Inflammationsstatus. Dissertation, Medizinische Hochschule Hannover, 2020

Chacko, L.P. (2018). Intrathekale Synthese von Anti-Hu Antikörpern differenziert zwischen Patienten mit paraneoplastischer Neuropathie und Enzephalitis. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Gabriel, M.M. (2020). HepNet-Register: sekundäre Prävention der hepatischen Enzephalopathie (HE-Register). Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Hopp, A. (2020). Zur Reversibilität der hepatischen Enzephalopathie nach Lebertransplantation = Hepatic encephalopathy is reversible in the long term after liver transplantation. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Rangnau, I. (2020). Analyse und Validierung von Next Generation Sequencing Daten zur Identifikation und Translation genetischer Risikofaktoren der Amyotrophen Lateralsklerose. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Rippena, L.M.N. (2020). Measurement of burden and its associated factors within advanced Parkinson's disease caregivers in Germany. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Seegers, L.M. (2019). Charakterisierung von bakteriellen Meningitiden mit Untersuchung des Metaboloms im Liquor cerebrospinalis im Vergleich zu anderen erreg器bedingten und autoimmunvermittelten Erkrankungen des Zentralen Nervensystems. Dissertation, Medizinische Hochschule Hannover, 2020

Tulke, A. (2020). Palliative Versorgungssituation und Lebensqualität schwer betroffener Parkinsonpatienten Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Valizada, E. (2020). Welche Faktoren beeinflussen die Titration von Levodopa-Carbidopa Intestinal Gel-Therapie beim fortgeschrittenen idiopathischen Parkinson-Syndrom? Dissertation, Medizinische Hochschule Hannover, 2020

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Originalpublikationen

Addabbo, F., Baglioni, V., Schrag, A., Schwarz, M.J., Dietrich, A., Hoekstra, P.J., Martino, D., Buttiglione, M., Emtics Collaborative Group. (2020). Anti-dopamine D2 receptor antibodies in chronic tic disorders. *Dev Med Child Neurol* *62*,1205-1212. DOI: 10.1111/dmcn.14613

Balzer, M.S., Rong, S., Nordlohne, J., Zemtsovski, J.D., Schmidt, S., Stapel, B., Bartosova, M., von Vietinghoff, S., Haller, H., Schmitt, C.P., Shushakova, N. (2020). SGLT2 Inhibition by Intraperitoneal Dapagliflozin Mitigates Peritoneal Fibrosis and Ultrafiltration Failure in a Mouse Model of Chronic Peritoneal Exposure to High-Glucose Dialysate *Biomolecules* *10*,1573. DOI: 10.3390/biom10111573

- Batury, V.L., Walton, E., Tam, F., Wronski, M.L., Buchholz, V., Frieling, H., Ehrlich, S. (2020). DNA methylation of ghrelin and leptin receptors in underweight and recovered patients with anorexia nervosa *J Psychiatr Res* 137,271-278. DOI: 10.1016/j.jpsychires.2020.08.026
- Baumung, L., Müller-Vahl, K., Dyke, K., Jackson, G., Jackson, S., Golm, D., Münchau, A., Brandt, V. (2020). Developing the Premonitory Urges for Tic Disorders Scale-Revised (PUTS-R). *J Neuropsychol* e12216. DOI: 10.1111/jnp.12216
- Behrens-Wittenberg, E., Wedegaertner, F. (2020). Identifying Individuals at High Risk for Permanent Disability From Depression and Anxiety. *Front Psychiatry* 11,740. DOI: 10.3389/fpsy.2020.00740
- Bock, C., Heitland, I., Zimmermann, T., Winter, L., Kahl, K.G. (2020). Secondary Traumatic Stress, Mental State, and Work Ability in Nurses-Results of a Psychological Risk Assessment at a University Hospital *Front Psychiatry* 11,298. DOI: 10.3389/fpsy.2020.00298
- Breuer, F., Greggerson, W., Kahl, K.G., Schweiger, U., Westermair, A.L. (2020). Caught in a web of trauma: Network analysis of childhood adversity and adult mental ill-health *Child Abuse Negl* 107,104534. DOI: 10.1016/j.chiabu.2020.104534
- Cross-Disorder Group of the Psychiatric Genomics Consortium. (2019). Genomic Relationships, Novel Loci, and Pleiotropic Mechanisms across Eight Psychiatric Disorders. *Cell* 179,1469-1482.e11. DOI: 10.1016/j.cell.2019.11.020
- de Araujo, L.S., Pessler, K., Sühs, K.W., Novoselova, N., Klawonn, F., Kuhn, M., Kaefer, V., Müller-Vahl, K., Trebst, C., Skripuletz, T., Stangel, M., Pessler, F. (2020). Phosphatidylcholine PC ae C44:6 in cerebrospinal fluid is a sensitive biomarker for bacterial meningitis *J Transl Med* 18,9. DOI: 10.1186/s12967-019-02179-w
- Deest, M., Jakob, M.M., Seifert, J., Bleich, S., Frieling, H., Eberlein, C. (2021). Sertraline as a treatment option for temper outbursts in Prader-Willi syndrome *Am J Med Genet A* 185,790-797. DOI: 10.1002/ajmg.a.62041
- Dietrich, D.E., Bode, L., Spannhuth, C.W., Hecker, H., Ludwig, H., Emrich, H.M. (2020). Antiviral treatment perspective against Borna disease virus 1 infection in major depression: a double-blind placebo-controlled randomized clinical trial. *BMC Pharmacol Toxicol* 21,12. DOI: 10.1186/s40360-020-0391-x
- Druschky, K., Toto, S., Bleich, S., Baumgärtner, J., Engel, R.R., Grohmann, R., Maier, H.B., Neyazi, A., Rudolph, Y.J., Rütther, E., Schwörer, H., Seifert, J., Stübner, S., Degner, D. (2021). Severe drug-induced liver injury in patients under treatment with antipsychotic drugs: Data from the AMSP study *World J Biol Psychiatry* 22,373-386. DOI: 10.1080/15622975.2020.1819565
- Friedel, E., Walter, H., Veer, I.M., Zimmermann, U.S., Heinz, A., Frieling, H., Zindler, T. (2020). Impact of Long-Term Alcohol Consumption and Relapse on Genome-Wide DNA Methylation Changes in Alcohol-Dependent Subjects: A Longitudinal Study *Alcohol Clin Exp Res* 44,1356-1365. DOI: 10.1111/acer.14354
- Graef-Calliess, I.T., Machleidt, W. (2020). (Wie) schaffen wir das? Psychiatrie in der Verantwortung. *Soz Psychiatrie* 44,4-8.
- Graef-Calliess, I.T., Machleidt, W. (2020). Wie schaffen wir das? Psychiatrie in der Verantwortung - Menschen mit Flucht- und Migrationserfahrung in der psychiatrisch-psychotherapeutischen und psychosozialen Versorgung. *VPP* 52,371-376.
- Groh, A., Rhein, M., Roy, M., Gessner, C., Lichtinghagen, R., Heberlein, A., Hillemacher, T., Bleich, S., Walter, M., Frieling, H. (2020). Trauma Severity in Early Childhood Correlates with Stress and Satiety Hormone Levels in a Pilot Cohort Receiving Diamorphine Maintenance Treatment. *Eur Addict Res* 26,103-108. DOI: 10.1159/000505293
- Haufe, S., Kahl, K.G., Kerling, A., Protte, G., Bayerle, P., Stenner, H.T., Rolff, S., Sundermeier, T., Eigendorf, J., Kück, M., Hanke, A.A., Keller-Varady, K., Ensslen, R., Nachbar, L., Lauenstein, D., Böthig, D., Terkamp, C., Stiesch, M., Hilfiker-Kleiner, D., Haverich, A., Tegtbur, U. (2020). Employers With Metabolic Syndrome and Increased Depression/Anxiety Severity Profit Most From Structured Exercise Intervention for Work Ability and Quality of Life *Front Psychiatry* 11,562. DOI: 10.3389/fpsy.2020.00562
- Hefner, G., Hahn, M., Toto, S., Hiemke, C., Roll, S.C., Wolff, J., Klimke, A. (2020). Potentially inappropriate medication in older psychiatric patients *Eur J Clin Pharmacol* DOI: 10.1007/s00228-020-03012-w
- Hefner, G., Wolff, J., Hahn, M., Hiemke, C., Toto, S., Roll, S.C., Messer, T., Klimke, A. (2020). Prevalence and sort of pharmacokinetic drug-drug interactions in hospitalized psychiatric patients *J Neural Transm (Vienna)* 127,1185-1198. DOI: 10.1007/s00702-020-02214-x
- Heitland, I., Barth, V., Winter, L., Jahn, N., Burak, A., Sinke, C., Krüger, T.H.C., Kahl, K.G. (2020). One Step Ahead-Attention Control Capabilities at Baseline Are Associated With the Effectiveness of the Attention Training Technique *Front Psychol* 11,401. DOI: 10.3389/fpsyg.2020.00401

- Herrmann, L., Vicheva, P., Kasties, V., Danyeli, L.V., Szycik, G.R., Denzel, D., Fan, Y., Meer, J.V., Vester, J.C., Eskoetter, H., Schultz, M., Walter, M. (2020).fMRI Revealed Reduced Amygdala Activation after Nx4 in Mildly to Moderately Stressed Healthy Volunteers in a Randomized, Placebo-Controlled, Cross-Over Trial. *Sci Rep* 10,3802. DOI: 10.1038/s41598-020-60392-w
- Jacobsen, C., Volkmann, I., Wedegärtner, F., Harris, J., Bertram, B., Gass, P., Bambas, B., Framme, C. (2020).Erfahrungen von Aggression und Gewalt gegen Augenärztinnen und Augenärzte *Ophthalmologe* 117,775-785. DOI: 10.1007/s00347-020-01039-z
- Jahn, K., Heese, A., Kebir, O., Groh, A., Bleich, S., Krebs, M.O., Frieling, H. (2020).Differential Methylation Pattern of Schizophrenia Candidate Genes in Tetrahydrocannabinol-Consuming Treatment-Resistant Schizophrenic Patients Compared to Non-Consumer Patients and Healthy Controls *Neuropsychobiology* 1-9. DOI: 10.1159/000507670
- Jakubovski, E., Pisarenko, A., Fremer, C., Haas, M., May, M., Schumacher, C., Schindler, C., Häckl, S., Aguirre Davila, L., Koch, A., Brunner, A., Cimpianu, C.L., Lutz, B., Bindila, L., Müller-Vahl, K. (2020).The CANNA-TICS Study Protocol: A Randomized Multi-Center Double-Blind Placebo Controlled Trial to Demonstrate the Efficacy and Safety of Nabiximols in the Treatment of Adults With Chronic Tic Disorders. *Front Psychiatry* 11,575826. DOI: 10.3389/fpsy.2020.575826
- Janke, E., Groh, A., Mühle, C., Dürsteler-MacFarland, K.M., Wiesbeck, G.A., Kornhuber, J., Jahn, K., Groeschl, M., Litchinghagen, R., Frieling, H., Bleich, S., Hillemacher, T., Lenz, B., Heberlein, A. (2021).Association of Testosterone Levels and Steroid 5-Alpha-Reductase 2 Polymorphisms with Opioid Craving. *Neuropsychobiology* 80,64-73. DOI: 10.1159/000508681
- Kahl, K.G., Atalay, S., Maudsley, A.A., Sheriff, S., Cummings, A., Frieling, H., Schmitz, B., Lanfermann, H., Ding, X.Q. (2020).Altered neurometabolism in major depressive disorder: A whole brain (1)H-magnetic resonance spectroscopic imaging study at 3T *Prog Neuropsychopharmacol Biol Psychiatry* 101,109916. DOI: 10.1016/j.pnpbp.2020.109916
- Kamp, J.C., von Kaisenberg, C., Greve, S., Winter, L., Park, D.H., Fuge, J., Kühn, C., Hoeper, M.M., Olsson, K.M. (2021).Pregnancy in pulmonary arterial hypertension: Midterm outcomes of mothers and offspring *J Heart Lung Transplant* 40,229-233. DOI: 10.1016/j.healun.2020.12.002
- Klietz, M., Drexel, S.C., Schnur, T., Lange, F., Groh, A., Paracka, L., Greten, S., Dressler, D., Höglinger, G.U., Wegner, F. (2020).Mindfulness and Psychological Flexibility are Inversely Associated with Caregiver Burden in Parkinson's Disease *Brain Sci* 10,DOI: 10.3390/brain-sci10020111
- Lescher, M., Wegmann, E., Müller, S.M., Laskowski, N.M., Wunder, R., Jimenez-Murcia, S., Szycik, G.R., de Zwaan, M., Müller, A. (2020).A Randomized Study of Food Pictures-Influenced Decision-Making Under Ambiguity in Individuals With Morbid Obesity *Front Psychiatry* 11,822. DOI: 10.3389/fpsy.2020.00822
- Listabarth, S., Vyssoki, B., Glahn, A., Gmeiner, A., Pruckner, N., Vyssoki, S., Wippel, A., Waldhoer, T., König, D. (2020).The effect of sex on suicide risk during and after psychiatric inpatient care in 12 countries-An ecological study. *Eur Psychiatry* 63,e85. DOI: 10.1192/j.eurpsy.2020.83
- Machleidt, W., Noth, I. (2020).Bücherschau: Christiane Burbach (Hg.), *Handbuch Personzentrierte Seelsorge und Beratung*. WzM 72,565-570. DOI: 10.13109/weme.2020.72.6.565
- Milosev, L.M., Psathakis, N., Szejko, N., Jakubovski, E., Müller-Vahl, K.R. (2019).Treatment of Gilles de la Tourette Syndrome with Cannabis-Based Medicine: Results from a Retrospective Analysis and Online Survey. *Cannabis Cannabinoid Res* 4,265-274. DOI: 10.1089/can.2018.0050
- Mohammadi, B., Szycik, G.R., Te Wildt, B., Heldmann, M., Samii, A., Münte, T.F. (2020).Structural brain changes in young males addicted to video-gaming. *Brain Cogn* 139,105518. DOI: 10.1016/j.bandc.2020.105518
- Moschny, N., Jahn, K., Bajbouj, M., Maier, H.B., Ballmaier, M., Khan, A.Q., Pollak, C., Bleich, S., Frieling, H., Neyazi, A. (2020).DNA Methylation of the t-PA Gene Differs Between Various Immune Cell Subtypes Isolated From Depressed Patients Receiving Electroconvulsive Therapy *Front Psychiatry* 11,571. DOI: 10.3389/fpsy.2020.00571
- Moschny, N., Jahn, K., Maier, H.B., Khan, A.Q., Ballmaier, M., Liepach, K., Sack, M., Skripuletz, T., Bleich, S., Frieling, H., Neyazi, A. (2020).Electroconvulsive therapy, changes in immune cell ratios, and their association with seizure quality and clinical outcome in depressed patients *Eur Neuropsychopharmacol* 36,18-28. DOI: 10.1016/j.euroneuro.2020.03.019
- Moschny, N., Zindler, T., Jahn, K., Dorda, M., Davenport, C.F., Wiehlmann, L., Maier, H.B., Eberle, F., Bleich, S., Neyazi, A., Frieling, H. (2020).Novel candidate genes for ECT response prediction-a pilot study analyzing the DNA methylome of depressed patients receiving electroconvulsive therapy *Clin Epigenetics* 12,114. DOI: 10.1186/s13148-020-00891-9

Mufford, M., Cheung, J., Jahanshad, N., van der Merwe, C., Ding, L., Groenewold, N., Koen, N., Chimusa, E.R., Dalvie, S., Ramesar, R., Knowles, J.A., Lochner, C., Hibar, D.P., Paschou, P., van den Heuvel, O.A., Medland, S.E., Scharf, J.M., Mathews, C.A., Thompson, P.M., Stein, D.J., Psychiatric Genomics Consortium - Tourette Syndrome working group. (2019). Concordance of genetic variation that increases risk for tourette syndrome and that influences its underlying neurocircuitry. *Transl Psychiatry* 9,120. DOI: 10.1038/s41398-019-0452-3

Müller-Vahl, K.R. (2020). Behandlung des Tourette-Syndroms mit cannabisbasierten Medikamenten. *Nervenheilkunde* 39,314-319. DOI: 10.1055/a-1096-4937

Müller-Vahl, K.R. (2020). Erste Erfahrungen mit Cannabis als Medizin. Gesetzeslage, Indikationen und unerwünschte Wirkungen. *Arbeits-med Sozialmed Umweltmed* 55,406.

Müller-Vahl, K.R. (2020). Stellenwert cannabisbasierter Medikamente in der Behandlung psychischer Erkrankungen. *Pharmind* 1608-1615.

Müller-Vahl, K.R., Bindila, L., Lutz, B., Musshoff, F., Skripuletz, T., Baumgaertel, C., Sühs, K.W. (2020). Cerebrospinal fluid endocannabinoid levels in Gilles de la Tourette syndrome. *Neuropsychopharmacology* 45,1323-1329. DOI: 10.1038/s41386-020-0671-6

Müller-Vahl, K.R., Kayser, L., Pisarenko, A., Haas, M., Psathakis, N., Palm, L., Jakobovski, E. (2020). The Rage Attack Questionnaire-Revised (RAQ-R): Assessing Rage Attacks in Adults With Tourette Syndrome *Front Psychiatry* 10,956. DOI: 10.3389/fpsy.2019.00956

Otte, C., Chae, W.R., Nowacki, J., Kaczmarczyk, M., Piber, D., Roepke, S., Märtsch, S., Lischewski, S., Schmidt, S., Ettrich, B., Grabe, H.J., Hegerl, U., Hinkelmann, K., Hofmann, T., Janowitz, D., Junghanns, K., Kahl, K.G., Klein, J.P., Krueger, T.H.C., Leicht, G., Prvulovic, D., Reif, A., Schoettle, D., Strauss, M., Westermair, A., Friede, T., Gold, S.M. (2020). Simvastatin add-on to escitalopram in patients with comorbid obesity and major depression (SIMCODE): study protocol of a multicentre, randomised, double-blind, placebo-controlled trial *BMJ Open* 10,e040119. DOI: 10.1136/bmjopen-2020-040119

Pfeffer, T.J., Herrmann, J., Berliner, D., König, T., Winter, L., Ricke-Hoch, M., Ponimaskin, E., Schuchardt, S., Thum, T., Hilfiker-Kleiner, D., Bauersachs, J., Kahl, K.G. (2020). Assessment of major mental disorders in a German peripartum cardiomyopathy cohort *ESC Heart Fail* 7,4394-4398. DOI: 10.1002/ehf2.12967

Proskynitopoulos, P.J., Szycik, G., Bleich, S., Janke, E., Glahn, A. (2020). Das Auftreten der zentralen pontinen Myelinolyse während des qualifizierten Entzugs von Alkohol. Ein Fallbericht. *Neuropsychiatr* 34,175-178. DOI: 10.1007/s40211-020-00371-9

Reinhard, M.A., Seifert, J., Greiner, T., Toto, S., Bleich, S., Grohmann, R. (2021). Pharmacotherapy of 1,044 inpatients with posttraumatic stress disorder: current status and trends in German-speaking countries *Eur Arch Psychiatry Clin Neurosci* 271,1065-1076. DOI: 10.1007/s00406-020-01223-x

Schneider, M., Pauwels, P., Toto, S., Bleich, S., Grohmann, R., Heinze, M., Greiner, T. (2020). Severe weight gain as an adverse drug reaction of psychotropics: Data from the AMSP project between 2001 and 2016. *Eur Neuropsychopharmacol* 36,60-71. DOI: 10.1016/j.euroneuro.2020.05.001

Seidler, K., Grützmacher, S., Epner, A., Schreiber-Willnow, K. (2020). Negative Therapiefolgen körperorientierter Gruppenpsychotherapie am Beispiel der Konzentrativen Bewegungstherapie. *Psychotherapeut* 65,244-256. DOI: 10.1007/s00278-020-00432-y

Seidler, K.P., Häger, D. (2020). Hängt das Selbsterleben von Patient*innen in der Psychotherapiestunde mit ihrem Bindungsmuster zusammen? Ergebnisse einer Pilotstudie. *Person* 24,119-131.

Seifert, J., Bleich, S., Degner, D., Rütger, E., Grohmann, R., Toto, S. (2020). Persistent Genital Arousal Disorder nach Absetzen von Sertralin. *PPT* 27,77-80.

Seifert, J., Bleich, S., Degner, D., Rütger, E., Grohmann, R., Toto, S. (2020). Post-Injektionssyndrom nach der Gabe von Olanzapin. *PPT* 27,25-28.

Voderholzer, U., de Zwaan, M., Löwe, B., Schulze, U., Herpertz-Dahlmann, B. (2020). Transition von Adoleszenten mit Essstörungen in das Erwachsenenalter: Das Positionspapier der Task-Force Transitionspsychiatrie der DGKJP und DGPPN *Z Kinder Jugendpsychiatr Psychother* 48,443-447. DOI: 10.1024/1422-4917/a000727

Warren, C., Seer, C., Lange, F., Kopp, B., Müller-Vahl, K. (2020). Neural correlates of performance monitoring in adult patients with Gilles de la Tourette syndrome: A study of event-related potentials. *Clin Neurophysiol* 131,597-608. DOI: 10.1016/j.clinph.2019.11.019

Winter, L., Geldmacher, J., Plücker-Boss, K., Kahl, K.G. (2020). Integration of a Return-to-Work Module in Cognitive Behavioral Therapy in Patients With Major Depressive Disorder and Long-Term Sick Leave-A Feasibility Study *Front Psychiatry* 11,512. DOI: 10.3389/fpsyt.2020.00512

Winter, L., Saryyeva, A., Schwabe, K., Heissler, H.E., Runge, J., Alam, M., Heitland, I., Kahl, K.G., Krauss, J.K. (2021). Long-Term Deep Brain Stimulation in Treatment-Resistant Obsessive-Compulsive Disorder: Outcome and Quality of Life at Four to Eight Years Follow-Up. *Neuromodulation* 24,324-330. DOI: 10.1111/ner.13232

Winter, L., Schweiger, U., Kahl, K.G. (2020). Feasibility and outcome of metacognitive therapy for major depressive disorder: a pilot study *BMC Psychiatry* 20,566. DOI: 10.1186/s12888-020-02976-4

Zindler, T., Frieling, H., Neyazi, A., Bleich, S., Friedel, E. (2020). Simulating ComBat: how batch correction can lead to the systematic introduction of false positive results in DNA methylation microarray studies *BMC Bioinformatics* 21,271. DOI: 10.1186/s12859-020-03559-6

Leitlinien von Fachgesellschaften

Deutsche Gesellschaft für Psychiatrie und Psychotherapie, Psychosomatik und Nervenheilkunde (DGPPN), Deutsche Gesellschaft für Suchtforschung und Suchttherapie (DG-Sucht) eds. (2020). S3-Leitlinie Medikamentenbezogene Störungen: Langfassung (Berlin: AWMF)

Übersichtsarbeiten

Bransi, A., Winter, L., Glahn, A., Kahl, K.G. (2020). Abhängigkeitserkrankungen bei Ärzten *Nervenarzt* 91,77-90. DOI: 10.1007/s00115-019-00854-3

Cosan, A.S., Schweiger, J.U., Kahl, K.G., Hamann, B., Deuschle, M., Schweiger, U., Westermair, A.L. (2020). Fat compartments in patients with depression: A meta-analysis *Brain Behav* e01912. DOI: 10.1002/brb3.1912

Glahn, A., Proskynitopoulos, P.J., Bleich, S., Hillemacher, T. (2020). Pharmacotherapeutic management of acute alcohol withdrawal syndrome in critically ill patients. *Expert Opin Pharmacother* 21,1083-1092. DOI: 10.1080/14656566.2020.1746271

Grotenhermen, F., Müller-Vahl, K.R. (2021). Two Decades of the International Association for Cannabinoid Medicines: 20 Years of Supporting Research and Activities Toward the Medicinal Use of Cannabis and Cannabinoids. *Cannabis Cannabinoid Res* 6,82-87. DOI: 10.1089/can.2020.0044

Hansen, N., Lipp, M., Vogelgsang, J., Vukovich, R., Zindler, T., Luedecke, D., Gingele, S., Malchow, B., Frieling, H., Kühn, S., Denk, J., Gallinat, J., Skripuletz, T., Moschny, N., Fiehler, J., Riedel, C., Wiedemann, K., Wattjes, M.P., Zerr, I., Esselmann, H., Bleich, S., Wiltfang, J., Neyazi, A. (2020). Autoantibody-associated psychiatric symptoms and syndromes in adults: A narrative review and proposed diagnostic approach. *Brain, Behavior, & Immunity - Health* 9,100154. DOI: 10.1016/j.bbih.2020.100154

Hillemacher, T., Simen, S., Rehme, M.K., Frieling, H. (2021). Antipsychotika in der Schwangerschaft: eine systematische Übersichtsarbeit *Nervenarzt* 92,494-500. DOI: 10.1007/s00115-020-01006-8

Kahl, K.G., Correll, C.U. (2020). Management of Patients With Severe Mental Illness During the Coronavirus Disease 2019 Pandemic *JAMA Psychiatry* 77,977-978. DOI: 10.1001/jamapsychiatry.2020.1701

Müller-Vahl, K.R., Roessner, V., Münchau, A. (2020). Tourette-Syndrom: Häufig eine Fehldiagnose. *Dtsch Arztebl International* 117,A332-A333.

Seifert, J., Heck, J., Eckermann, G., Singer, M., Bleich, S., Grohmann, R., Toto, S. (2020). Psychopharmakotherapie in Zeiten der COVID-19-Pandemie *Nervenarzt* 91,604-610. DOI: 10.1007/s00115-020-00939-4

Szejko, N., Fremer, C., Müller-Vahl, K.R. (2020). Cannabis Improves Obsessive-Compulsive Disorder-Case Report and Review of the Literature. *Front Psychiatry* 11,681. DOI: 10.3389/fpsyt.2020.00681

Wu, H., Hariz, M., Visser-Vandewalle, V., Zrinzo, L., Coenen, V.A., Sheth, S.A., Bervoets, C., Naesström, M., Blomstedt, P., Coyne, T., Hamani, C., Slavin, K., Krauss, J.K., Kahl, K.G., Taira, T., Zhang, C., Sun, B., Toda, H., Schlaepfer, T., Chang, J.W., Regis, J., Schuurman, R., Schulder, M., Doshi, P., Mosley, P., Poologaindran, A., Lazaro-Munoz, G., Pepper, J., Schechtmann, G., Fyttagoridis, A., Huys, D., Gonçalves-Ferreira, A., D'Haese, P.F., Neimat, J., Broggi, G., Vilela-Filho, O., Voges, J., Alkhani, A., Nakajima, T., Richieri, R., Djurfeldt, D., Fontaine, P., Martinez-Alvarez, R., Okamura, Y., Chandler, J., Watanabe, K., Barcia, J.A., Reneses, B., Lozano, A., Gabriels, L., De Salles, A., Halpern, C.H., Matthews, K., Fins, J.J., Nuttin, B. (2021). Deep brain stimulation for refractory obsessive-compulsive disorder (OCD): emerging or established therapy? *Mol Psychiatry* 26,60-65. DOI: 10.1038/s41380-020-00933-x

Letter

Groh, A., Heberlein, A., Thürauf, N., Garlipp, P., Kornhuber, J., Frieling, H., Bleich, S., Hillemacher, T. (2020). Attempted suicide during an episode of lycanthropy - A case report and review of literature *Psychiatry Res* 286,112796. DOI: 10.1016/j.psychres.2020.112796

Case reports

Heck, J., Burda, K., Hillemacher, T., Bleich, S., Stichtenoth, D.O., Groh, A. (2020). Naltrexone-induced drug eruption. *Clin Case Rep* 8,2049-2050. DOI: 10.1002/ccr3.3055

Heck, J., Groh, A., Stichtenoth, D.O., Bleich, S., Krause, O. (2020). Look-alikes, sound-alikes: Three cases of insidious medication errors. *Clin Case Rep* 8,3284-3287. DOI: 10.1002/ccr3.3409

Heck, J., Seifert, J., Stichtenoth, D.O., Bleich, S., Degner, D., Rütger, E., Stübner, S., Grohmann, R., Toto, S. (2020). Pisa-Syndrom nach der Einnahme von Olanzapin. Fallbericht mit Literaturübersicht. *PPT* 27,206-209.

Szejko, N., Fremer, C., Sühs, K.W., Macul Ferreira de Barros, P., Müller-Vahl, K.R. (2020). Intravenous Immunoglobulin Treatment Did Not Improve Tics in a Patient With Gilles de la Tourette Syndrome and Intrathecal Antibody Synthesis. *Front Neurol* 11,110. DOI: 10.3389/fneur.2020.00110

Winter, L., Naumann, F., Olsson, K., Fuge, J., Hoepfer, M.M., Kahl, K.G. (2020). Metacognitive Therapy for Adjustment Disorder in a Patient With Newly Diagnosed Pulmonary Arterial Hypertension: A Case Report *Front Psychol* 11,143. DOI: 10.3389/fpsyg.2020.00143

Buchbeiträge, Monografien

Hieber, L., Machleidt, W. (2020). Zwischen den Kulturen Integrationschancen für Migrantinnen und Migranten (Gießen: Psychosozial-Verlag).

Machleidt, W. (2020). The importance of strangeness experiences for egoconstitution and society. In: *Migration and medicine*, Steger F., eds. (Freiburg, München: Verlag Karl Alber) pp. 301-313

Machleidt, W. (2020). Werte und Wertekonflikte in der interkulturellen Psychotherapie. In: *Ethik in der psychotherapeutischen Praxis : integrativ - fallorientiert - wertepplural*, Steger F., eds. (Stuttgart: Verlag W. Kohlhammer) pp. 121-137

Machleidt, W. (2020). Zur sich wandelnden Identität des Psychiaters/Psychotherapeuten im Kontext kultur- und religionssensibler Behandlungen. In: *Religionssensible Psychotherapie und Psychiatrie : Basiswissen und Praxis-Erfahrungen*, Mönter N., eds. (Stuttgart: Verlag W. Kohlhammer) pp. 230-236

Abstracts

Gutenbrunner, C., Corallus, C., Kahl, K., Tegtbur, U., Egen, C., Fuhr, H., Briest, J. (2020). Fit for Work and Life - Integrierte Prävention und Rehabilitation für Mitarbeiterinnen und Mitarbeiter eines Universitätsklinikums: Ergebnisse der Begleitevaluation. In: 29. Rehabilitationswissenschaftliches Kolloquium : Deutscher Kongress für Rehabilitationsforschung : Prävention und Rehabilitation - der Betrieb als Partner, vom 2. bis 4. März 2020 in Hannover, Deutsche Rentenversicherung Bund, eds. (Berlin: Deutsche Rentenversicherung Bund) pp. 124-125

sonstiges

Müller-Vahl, K.R., Szejko, N., Wilke, F., Jakubowski, E., Geworski, L., Bengel, F., Berding, G. (2020). Author Correction: Serotonin transporter binding is increased in Tourette syndrome with Obsessive Compulsive Disorder *Sci Rep* 10,11092. DOI: 10.1038/s41598-020-68278-7

Habilitationen

Muschler, M.A.N. (2020). Leptin und Proopiomelanocortin - zentrale Elemente der Appetitregulation und Weichensteller bei Alkohol- und Tabakabhängigkeit. Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Neyazi, A. (2020). Zur Molekularbiologie des Ansprechens auf antidepressive Therapieverfahren. Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Promotionen

Aly, S. (2019). Homocysteine and cognition in bariatric surgery Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Haßfeld, L. (2019). Untersuchung eines Zusammenhangs zwischen Tumornekrosefaktor- α und Affekt ermittelt an depressiven Patienten während einer stationären und teilstationären multimodalen Therapie. Dissertation, Medizinische Hochschule Hannover, 2020

Höing, A.C. (2020). DNA-Methylierung des Dopamintransporter-Gens bei PatientInnen mit dem Tourette-Syndrom im Verlauf. Dissertation, Medizinische Hochschule Hannover, 2020

- Kayser, L. (2019). Untersuchung von Wutausbrüchen bei Patienten mit Gilles de la Tourette-Syndrom im Vergleich zu einer gesunden Kontrollstichprobe anhand des Rage Attack Questionnaire (RAQ) Dissertation, Medizinische Hochschule Hannover, 2020
- Loeber, G. (2019). DNA-Methylierungen bei Patienten mit Tourette-Syndrom. Dissertation, Medizinische Hochschule Hannover, 2020
- Maier, H.B. (2020). Alcohol consumption alters GDNF promoter methylation and expression in rats = Alkoholkonsum verändert die GDNF Promotermethylierung und die Expression in Ratten Kumulative Dissertation, Medizinische Hochschule Hannover, 2020
- Müschen, L.H. (2020). α -MSH one driving force behind craving in alcohol dependent rats = α -MSH : eine treibende Kraft des Cravings bei alkoholabhängigen Ratten. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020
- Neyazi, M. (2020). Epigenetische Merkmale des Glial Cell Line-Derived Neurotrophic Factor und Ansprechen auf elektrokonvulsive Stimulation bei schwerer Depression. Dissertation, Medizinische Hochschule Hannover, 2020
- Proskynitopoulos, P.J. (2018). Die Leptin-Hypothalamus-Leber Achse in Ethanol-induzierter Leberzirrhose Veränderungen durch Transplantation und ein möglicher Zusammenhang zu Rückfällen = The leptin-hypothalamus-liver axis in ethanol-induced liver cirrhosis : changes through transplantation and possible link to relapse. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020
- Ruppert, J. (2019). Erhöhtes kardiales Fettgewebe und kardiovaskuläres Risiko bei Patienten mit Schizophrenie. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020
- Schiller, H. (2019). Hermeneutische Darstellung der Vorurteile gegenüber psychisch kranken Menschen am Beispiel des Buches „Ich hab dir nie einen Rosengarten versprochen“ von Hannah Green Dissertation, Medizinische Hochschule Hannover, 2020
- Tietze, F. (2019). Multimodale Sprachverarbeitung beim Asperger-Syndrom im Erwachsenenalter Kumulative Dissertation, Medizinische Hochschule Hannover, 2020
- Timm, S.E. (2019). Moralische Kompetenz bei Medizinstudentinnen und Medizinstudenten im Verlauf des Studiums und die Auswirkung von Testosteron auf die moralische Urteilsfähigkeit Dissertation, Medizinische Hochschule Hannover, 2020
- Zindler, T. (2020). Herausforderungen und Chancen von DNA-Methylierungsanalysen in der Psychiatrie. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020
- Zohles, K. (2019). Das Schlafverhalten von Soldaten der Bundeswehr in der einsatzvorbereitenden Ausbildung verglichen mit Soldaten im Auslandseinsatz. Dissertation, Medizinische Hochschule Hannover, 2020

Arbeitsbereich Klinische Psychologie in der Klinik für Psychiatrie, Sozialpsychiatrie und Psychotherapie – 7180

Originalpublikationen

- Heitland, I., Barth, V., Winter, L., Jahn, N., Burak, A., Sinke, C., Krüger, T.H.C., Kahl, K.G. (2020). One Step Ahead-Attention Control Capabilities at Baseline Are Associated With the Effectiveness of the Attention Training Technique *Front Psychol* 11,401. DOI: 10.3389/fpsyg.2020.00401
- James, C.E., Altenmüller, E., Kliegel, M., Krüger, T.H.C., Van De Ville, D., Worschech, F., Abdili, L., Scholz, D.S., Jünemann, K., Hering, A., Grouiller, F., Sinke, C., Marie, D. (2020). Train the brain with music (TBM): brain plasticity and cognitive benefits induced by musical training in elderly people in Germany and Switzerland, a study protocol for an RCT comparing musical instrumental practice to sensitization to music *BMC Geriatr* 20,418. DOI: 10.1186/s12877-020-01761-y
- Jung, S., Kneer, J., Krüger, T.H.C. (2020). Mental Health, Sense of Coherence, and Interpersonal Violence during the COVID-19 Pandemic Lockdown in Germany *J Clin Med* 9,DOI: 10.3390/jcm9113708
- Krüger, T.H.C., Schippert, C., Meyer, B. (2020). The Pharmacotherapy of Persistent Genital Arousal Disorder. *Curr Sex Health Rep* 12,34-39. DOI: 10.1007/s11930-020-00240-0

Krylova, M., Ristow, I., Marr, V., Borchardt, V., Li, M., Witzel, J., Drumkova, K., Harris, J.A., Zacharias, N., Schiltz, K., Amelung, T., Beier, K.M., Krüger, T.H.C., Ponseti, J., Schiffer, B., Walter, H., Kärgel, C., Walter, M. (2020). MEG reveals preference specific increases of sexual image-evoked responses in paedophilic sexual offenders and healthy controls *World J Biol Psychiatry* 1-14. DOI: 10.1080/15622975.2020.1789216

Otte, C., Chae, W.R., Nowacki, J., Kaczmarczyk, M., Piber, D., Roepke, S., Märtschen, S., Lischewski, S., Schmidt, S., Ettrich, B., Grabe, H.J., Hegerl, U., Hinkelmann, K., Hofmann, T., Janowitz, D., Junghanns, K., Kahl, K.G., Klein, J.P., Krueger, T.H.C., Leicht, G., Prvulovic, D., Reif, A., Schoettle, D., Strauss, M., Westermair, A., Friede, T., Gold, S.M. (2020). Simvastatin add-on to escitalopram in patients with comorbid obesity and major depression (SIMCODE): study protocol of a multicentre, randomised, double-blind, placebo-controlled trial *BMJ Open* 10:e040119. DOI: 10.1136/bmjopen-2020-040119

Sinke, C., Engel, J., Veit, M., Hartmann, U., Hillemacher, T., Kneer, J., Krüger, T.H.C. (2020). Sexual cues alter working memory performance and brain processing in men with compulsive sexual behavior *Neuroimage Clin* 27,102308. DOI: 10.1016/j.nicl.2020.102308

Buchbeiträge, Monografien

Engel, J., Krüger, T.H.C. (2021). Substance-Related Disorders. In: *Psychiatry and Sexual Medicine: A Comprehensive Guide for Clinical Practitioners*, Lew-Starowicz M., eds. (Cham: Springer International Publishing) pp. 201-214

Engel, J., Wollmer, M.A., Hösl, K., Krüger, T.H.C. (2021). Cognitive Disorders. In: *Psychiatry and Sexual Medicine: A Comprehensive Guide for Clinical Practitioners*, Lew-Starowicz M., eds. (Cham: Springer International Publishing) pp. 191-199

Gibbels, C., Kneer, J., Tenbergen, G., Krüger, T.H.C. (2021). Sexual Violence: How to Deal with It in Psychiatry. In: *Psychiatry and Sexual Medicine: A Comprehensive Guide for Clinical Practitioners*, Lew-Starowicz M., eds. (Cham: Springer International Publishing) pp. 373-391

Kruger, T.H.C., Giralaldi, A., Tenbergen, G. (2021). The Neurobiology of Sexual Responses and its Clinical Relevance. In: *Psychiatry and Sexual Medicine A Comprehensive Guide for Clinical Practitioner* Book Collection, Lew-Starowicz M., eds. (Cham: Springer International Publishing) pp. 71-84

Herausgeberschaften

Lew-Starowicz, M., Giralaldi, A., Krüger, T.H.C. eds. (2021). *Psychiatry and Sexual Medicine A Comprehensive Guide for Clinical Practitioners* (Cham: Springer International Publishing)

Promotionen

Engel, J. (2020). Clinical characterization of hypersexual behavior. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Gibbels, C. (2020). Vergleich klinischer und bildgebender Charakteristika von Sexualstraftätern im Hell- und Dunkelfeld und ihre möglichen Konsequenzen in der Behandlung. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Psychosomatik und Psychotherapie – 7160

Originalpublikationen

Bendix, M.C., Stephan, M., Nöhre, M., Wunsch-Leiteritz, W., Schmidt, H., Tiegs, G., Harder, J., de Zwaan, M. (2020). Antimicrobial peptides in patients with anorexia nervosa: comparison with healthy controls and the impact of weight gain. *Sci Rep* 10,22223. DOI: 10.1038/s41598-020-79302-1

Bock, C., Heitland, I., Zimmermann, T., Winter, L., Kahl, K.G. (2020). Secondary Traumatic Stress, Mental State, and Work Ability in Nurses-Results of a Psychological Risk Assessment at a University Hospital *Front Psychiatry* 11,298. DOI: 10.3389/fpsy.2020.00298

Brederecke, J., Scott, J.L., de Zwaan, M., Brähler, E., Neuner, F., Quinn, M., Zimmermann, T. (2020). Psychometric properties of the German version of the Self-Image Scale (SIS-D) *PLoS One* 15:e0240619. DOI: 10.1371/journal.pone.0230331

Brederecke, J., Zimmermann, T. (2020). Psychometric properties of the German version of the Self Image Scale (SIS-D) in a sample of cancer patients *PLoS One* 15,DOI: 10.1371/journal.pone.0240619

Bryois, J., Skene, N.G., Hansen, T.F., Kogelman, L.J.A., Watson, H.J., Liu, Z., Eating Disorders Working Group of the Psychiatric Genomics Consortium, International Headache Genetics Consortium, 23andMe Research Team, Brueggeman, L., Breen, G., Bulik, C.M., Arenas, E.,

- Hjerling-Leffler, J., Sullivan, P.F. (2020). Genetic identification of cell types underlying brain complex traits yields insights into the etiology of Parkinson's disease *Nat Genet* 52,482-493. DOI: 10.1038/s41588-020-0610-9
- Bünemann, M., Bauer-Hohmann, M., Klewitz, F., Kyaw Tha Tun, E.M., Tegtbur, U., Pape, L., Schiffer, L., Schiffer, M., de Zwaan, M., Nöhre, M. (2020). Beliefs about immunosuppressant medication and correlates in a German kidney transplant population *J Psychosom Res* 132,109989. DOI: 10.1016/j.jpsychores.2020.109989
- Christiansen, H., Chavanon, M.L., Hirsch, O., Schmidt, M.H., Meyer, C., Müller, A., Rumpf, H.J., Grigorev, I., Hoffmann, A. (2020). Use of machine learning to classify adult ADHD and other conditions based on the Conners' Adult ADHD Rating Scales *Sci Rep* 10,18871. DOI: 10.1038/s41598-020-75868-y
- de Boer, S., Klewitz, F., Bauer-Hohmann, M., Schiffer, L., Tegtbur, U., Pape, L., Schiffer, M., de Zwaan, M., Nöhre, M. (2020). Knowledge About Immunosuppressant Medication and Its Correlates in a German Kidney Transplant Population - Results of a KTx360 degrees Substudy Patient Prefer Adherence 14,1699-1708. DOI: 10.2147/PPA.S269201
- de Zwaan, M., Fischer-Jacobs, J., Wabitsch, M., Reinehr, T., Meckes-Ferber, S., Crosby, R.D. (2020). Development and Psychometric Evaluation of an Instrument Assessing Barriers to Growth Hormone Treatment (BAR-GHT). *Front Endocrinol (Lausanne)* 11,84. DOI: 10.3389/fendo.2020.00084 [doi]
- Gajda, J., Thiel, B., Zimmermann, T. (2020). Hilfreiche psychosoziale Unterstützung für Eltern in der pädiatrischen Onkologie: eine qualitative Erfassung aus interdisziplinärer Sicht in Deutschland. *Monatsschr Kinderheilkd* DOI: 10.1007/s00112-020-00896-x
- Gawinski, L., Stiel, S., Schneider, N., Zimmermann, T., Herbst, F.A. (2021). Methodological Reflections on the Recruitment of Adult Child-Parent Dyads for End-of-Life Research in Germany: Experiences From the Dy@EoL Study *J Pain Symptom Manage* 61,1196-1204.e1. DOI: 10.1016/j.jpainsymman.2020.10.016
- Georgiadou, E., Hillemacher, T., Müller, A., Koopmann, A., Lemenager, T., Kiefer, F. (2020). Die COVID-19-Pandemie als idealer Nährboden für Süchte. *Dtsch Arztebl International* 117,A1251-A1254.
- Hanke, A.A., Sundermeier, T., Boeck, H.T., Schieffer, E., Boyen, J., Braun, A.C., Rolff, S., Stein, L., Kück, M., Schiffer, M., Pape, L., de Zwaan, M., Haufe, S., Kerling, A., Tegtbur, U., Nöhre, M. (2020). Influence of Officially Ordered Restrictions During the First Wave of COVID-19 Pandemic on Physical Activity and Quality of Life in Patients after Kidney Transplantation in a Telemedicine Based Aftercare Program-A KTx360 degrees Sub Study *Int J Environ Res Public Health* 17,9144. DOI: 10.3390/ijerph17239144
- Herrmann-Lingen, C., Albus, C., de Zwaan, M., Geiser, F., Heinemann, K., Hellmich, M., Michal, M., Sadlonova, M., Tostmann, R., Wachter, R., Herbeck Belnap, B. (2020). Efficacy of team-based collaborative care for distressed patients in secondary prevention of chronic coronary heart disease (TEACH): study protocol of a multicenter randomized controlled trial *BMC Cardiovasc Disord* 20,520. DOI: 10.1186/s12872-020-01810-9
- Hilbert, A., Herpertz, S., Zipfel, S., Tuschen-Caffier, B., Friederich, H.C., Mayr, A., de Zwaan, M. (2020). Psychopathological Networks in Cognitive-Behavioral Treatments for Binge-Eating Disorder *Psychother Psychosom* 89,379-385. DOI: 10.1159/000509458
- Horschke, S., Steinmann, D., Christiansen, H., de Zwaan, M., Zimmermann, T. (2020). Body image in men with prostate or laryngeal cancer and their female partners *Z Psychosom Med Psychother* 66,287-301. DOI: 10.13109/zptm.2020.66.3.287
- Köhler, H., Dorozhkina, R., Gruner-Labitzke, K., de Zwaan, M. (2020). Specific Health Knowledge and Health Literacy of Patients before and after Bariatric Surgery: A Cross-Sectional Study *Obes Facts* 13,166-178. DOI: 10.1159/000505837
- Laskowski, N., Gockeln, L., Tahmassebi, N., Georgiadou, E., Hillemacher, T., de Zwaan, M., Müller, A. (2019). Traumatische Kindheitserlebnisse bei Behandlungsaufsuchenden PatientInnen mit pathologischem Kaufen - eine Pilotstudie. *Verhaltenstherapie & Verhaltensmedizin* 40,246-258.
- Legenbauer, T., Müller, A., de Zwaan, M., Herpertz, S. (2020). Body Image and Body Avoidance Nine Years After Bariatric Surgery and Conventional Weight Loss Treatment *Front Psychiatry* 10,945. DOI: 10.3389/fpsy.2019.00945
- Lemenager, T., Neissner, M., Koopmann, A., Reinhard, I., Georgiadou, E., Müller, A., Kiefer, F., Hillemacher, T. (2020). COVID-19 Lock-down Restrictions and Online Media Consumption in Germany. *Int J Environ Res Public Health* 18,DOI: 10.3390/ijerph18010014
- Lescher, M., Wegmann, E., Müller, S.M., Laskowski, N.M., Wunder, R., Jimenez-Murcia, S., Szyck, G.R., de Zwaan, M., Müller, A. (2020). A Randomized Study of Food Pictures-Influenced Decision-Making Under Ambiguity in Individuals With Morbid Obesity *Front Psychiatry* 11,822. DOI: 10.3389/fpsy.2020.00822

Mazhari, A.L., de Zwaan, M., Tegtbur, U., Pape, L., Schiffer, M. (2020). Die Versorgung von Patienten nach Nierentransplantation außerhalb der Regelversorgung: Herausforderungen und Chancen für die Nachsorge von Patienten im Projekt NTx360°. *Nieren Hochdruck* 49,381-389. DOI: 10.5414/NHX02133

Meyer, T., Rothe, I., Staab, J., Deter, H.C., Fangauf, S.V., Hamacher, S., Hellmich, M., Jünger, J., Ladwig, K.H., Michal, M., Petrowski, K., Ronel, J., Söllner, W., Weber, C., de Zwaan, M., Williams, R.B., Albus, C., Herrmann-Lingen, C., SPIRR-CAD Investigators. (2020). Length Polymorphisms in the Angiotensin I-Converting Enzyme Gene and the Serotonin-Transporter-Linked Polymorphic Region Constitute a Risk Haplotype for Depression in Patients with Coronary Artery Disease *Biochem Genet* 58,631-648. DOI: 10.1007/s10528-020-09967-w

Muldbucker, P., Steinmann, D., Christiansen, H., de Zwaan, M., Zimmermann, T. (2021). Are women more afraid than men? Fear of recurrence in couples with cancer - predictors and sex-role-specific differences *J Psychosoc Oncol* 39,89-104. DOI: 10.1080/07347332.2020.1762823

Müller, A., Claes, L., Birlin, A., Georgiadou, E., Laskowski, N.M., Steins-Loeber, S., Brand, M., de Zwaan, M. (2021). Associations of Buying-Shopping Disorder Symptoms with Identity Confusion, Materialism, and Socially Undesirable Personality Features in a Community Sample *Eur Addict Res* 27,142-150. DOI: 10.1159/000511078

Müller, A., Trotzke, P., Laskowski, N.M., Brederecke, J., Georgiadou, E., Tahmassebi, N., Hillemacher, T., de Zwaan, M., Brand, M. (2021). Der Pathological Buying Screener: Validierung in einer klinischen Stichprobe *Psychother Psychosom Med Psychol* 77,294-300. DOI: 10.1055/a-1303-4743

Munn-Chernoff, M.A., Johnson, E.C., Chou, Y.L., Coleman, J.R.I., Thornton, L.M., Walters, R.K., Yilmaz, Z., Baker, J.H., Hubel, C., Gordon, S., Medland, S.E., Watson, H.J., Gaspar, H.A., Bryois, J., Hinney, A., Leppä, V.M., Mattheisen, M., Ripke, S., Yao, S., Giusti-Rodriguez, P., Hanscombe, K.B., Adan, R.A.H., Alfredsson, L., Ando, T., Andreassen, O.A., Berrettini, W.H., Boehm, I., Boni, C., Boraska Perica, V., Buehren, K., Burghardt, R., Cassina, M., Cichon, S., Clementi, M., Cone, R.D., Courtet, P., Crow, S., Crowley, J.J., Danner, U.N., Davis, O.S.P., de Zwaan, M., Dedoussis, G., Degortes, D., DeSocio, J.E., Dick, D.M., Dikeos, D., Dina, C., Dmitrak-Weglarz, M., Docampo, E., Duncan, L.E., Egberts, K., Ehrlich, S., Escaramis, G., Esko, T., Estivill, X., Farmer, A., Favaro, A., Fernandez-Aranda, F., Fichter, M.M., Fischer, K., Focker, M., Foretova, L., Forstner, A.J., Forzan, M., Franklin, C.S., Gallinger, S., Giegling, I., Giuranna, J., Gonidakis, F., Gorwood, P., Gratacos Mayora, M., Guillaume, S., Guo, Y., Hakonarson, H., Hatzikotoulas, K., Hauser, J., Hebebrand, J., Helder, S.G., Herms, S., Herpertz-Dahlmann, B., Herzog, W., Huckins, L.M., Hudson, J.I., Imgart, H., Inoko, H., Janout, V., Jimenez-Murcia, S., Julia, A., Kalsi, G., Kaminska, D., Karhunen, L., Karwautz, A., Kas, M.J.H., Kennedy, J.L., Keski-Rahkonen, A., Kiezebrink, K., Kim, Y.R., Klump, K.L., Knudsen, G.P.S., La Via, M.C., Le Hellard, S., Levitan, R.D., Li, D., Lilienfeld, L., Lin, B.D., Lissowska, J., Luyckx, J., Magistretti, P.J., Maj, M., Mannik, K., Marsal, S., Marshall, C.R., Matingsdal, M., McDevitt, S., McGuffin, P., Metspalu, A., Meulenbelt, I., Micali, N., Mitchell, K., Monteleone, A.M., Monteleone, P., Nacmias, B., Navratilova, M., Ntalla, I., O'Toole, J.K., Ophoff, R.A., Padyukov, L., Palotie, A., Pantel, J., Papezova, H., Pinto, D., Rabionet, R., Raevuori, A., Ramoz, N., Reichborn-Kjennerud, T., Ricca, V., Ripatti, S., Ritschel, F., Roberts, M., Rontodo, A., Rujescu, D., Rybakowski, F., Santonastaso, P., Scherag, A., Scherer, S.W., Schmidt, U., Schork, N.J., Schosser, A., Seitz, J., Slachetova, L., Slagboom, P.E., Slof-Op't Landt, M.C.T., Slopien, A., Sorbi, S., Swiatkowska, B., Szatkiewicz, J.P., Tachmazidou, I., Tenconi, E., Tortorella, A., Tozzi, F., Treasure, J., Tsitsika, A., Tyszkiewicz-Nwafor, M., Tziouvas, K., van Elburg, A.A., van Furth, E.F., Wagner, G., Walton, E., Widen, E., Zeggini, E., Zerwas, S., Zipfel, S., Bergen, A.W., Boden, J.M., Brandt, H., Crawford, S., Halmi, K.A., Horwood, L.J., Johnson, C., Kaplan, A.S., Kaye, W.H., Mitchell, J., Olsen, C.M., Pearson, J.F., Pedersen, N.L., Strober, M., Werge, T., Whiteman, D.C., Woodside, D.B., Grove, J., Henders, A.K., Larsen, J.T., Parker, R., Petersen, L.V., Jordan, J., Kennedy, M.A., Birgegard, A., Lichtenstein, P., Noring, C., Landen, M., Mortensen, P.B., Polimanti, R., McClintick, J.N., Adkins, A.E., Aliev, F., Bacanu, S.A., Batzler, A., Bertelsen, S., Biernacka, J.M., Bigdeli, T.B., Chen, L.S., Clarke, T.K., Degenhardt, F., Docherty, A.R., Edwards, A.C., Foo, J.C., Fox, L., Frank, J., Hack, L.M., Hartmann, A.M., Hartz, S.M., Heilmann-Heimbach, S., Hodgkinson, C., Hoffmann, P., Hottenga, J.J., Konte, B., Lahti, J., Lahti-Pulkkinen, M., Lai, D., Ligthart, L., Loukola, A., Maher, B.S., Mbarek, H., McIntosh, A.M., McQueen, M.B., Meyers, J.L., Milanescu, Y., Palviainen, T., Peterson, R.E., Ryu, E., Saccone, N.L., Salvatore, J.E., Sanchez-Roige, S., Schwandt, M., Sherva, R., Streit, F., Strohmaier, J., Thomas, N., Wang, J.C., Webb, B.T., Wedow, R., Wetherill, L., Wills, A.G., Zhou, H., Boardman, J.D., Chen, D., Choi, D.S., Copeland, W.E., Culverhouse, R.C., Dahmen, N., Degenhardt, L., Domingue, B.W., Frye, M.A., Gaebel, W., Hayward, C., Ising, M., Keyes, M., Kiefer, F., Koller, G., Kramer, J., Kuperman, S., Lucae, S., Lynskey, M.T., Maier, W., Mann, K., Mannisto, S., Muller-Myhsok, B., Murray, A.D., Nurnberger, J.I., Preuss, U., Raikkonen, K., Reynolds, M.D., Ridinger, M., Scherbaum, N., Schuckit, M.A., Soyka, M., Treutlein, J., Witt, S.H., Wodarz, N., Zill, P., Adkins, D.E., Boomsma, D.I., Bierut, L.J., Brown, S.A., Bucholz, K.K., Costello, E.J., de Wit, H., Diazgranados, N., Eriksson, J.G., Farrer, L.A., Foroud, T.M., Gillespie, N.A., Goate, A.M., Goldman, D., Gruzca, R.A., Hancock, D.B., Harris, K.M., Hesselbrock, V., Hewitt, J.K., Hopfer, C.J., Iacono, W.G., Johnson, E.O., Karpyak, V.M., Kendler, K.S., Kranzler, H.R., Krauter, K., Lind, P.A., McGue, M., MacKillop, J., Madden, P.A.F., Maes, H.H., Magnusson, P.K.E., Nelson, E.C., Nothen, M.M., Palmer, A.A., Penninx, B.W.J.H., Porjesz, B., Rice, J.P., Rietschel, M., Riley, B.P., Rose, R.J., Shen, P.H., Silberg, J., Stallings, M.C., Tarter, R.E., Vanyukov, M.M., Vrieze, S., Wall, T.L., Whitfield, J.B., Zhao, H., Neale, B.M., Wade, T.D., Heath, A.C., Montgomery, G.W., Martin, N.G., Sullivan, P.F., Kaprio, J., Breen, G., Gelernter, J., Edenberg, H.J., Bulik, C.M., Agrawal, A. (2021). Shared genetic risk between eating disorder- and substance-use-related phenotypes: Evidence from genome-wide association studies. *Addict Biol* 26,e12880. DOI: 10.1111/adb.12880

Neumann, M., de Zwaan, M. (2020). Restriktives Essverhalten und langfristige Gewichtsabnahme. *Adipositas* 14,107-113. DOI: 10.1055/a-1120-5375

- Nöhre, M., Paslakis, G., Albayrak, O., Bauer-Hohmann, M., Brederecke, J., Eser-Valeri, D., Tudorache, I., de Zwaan, M. (2020). Factor Analyses and Validity of the Transplant Evaluation Rating Scale (TERS) in a Large Sample of Lung Transplant Candidates *Front Psychiatry* 11,373. DOI: 10.3389/fpsy.2020.00373
- Nöhre, M., Schieffer, E., Hanke, A., Pape, L., Schiffer, L., Schiffer, M., de Zwaan, M. (2020). Obesity After Kidney Transplantation-Results of a KTx360 degrees Substudy *Front Psychiatry* 11,399. DOI: 10.3389/fpsy.2020.00399
- Paracka, L., Wegner, F., Escher, C., Kliez, M., de Zwaan, M., Abdallat, M., Saryyeva, A., Krauss, J.K. (2020). Body Concept and Quality of Life in Patients with Idiopathic Dystonia. *Brain Sci* 10,E488 [pii]. DOI: 10.3390/brainsci10080488
- Paslakis, G., Richardson, C., Nöhre, M., Brähler, E., Holzappel, C., Hilbert, A., de Zwaan, M. (2020). Prevalence and psychopathology of vegetarians and vegans - Results from a representative survey in Germany *Sci Rep* 10,6840. DOI: 10.1038/s41598-020-63910-y
- Peters, L., Brederecke, J., Franzke, A., de Zwaan, M., Zimmermann, T. (2020). Psychological Distress in a Sample of Inpatients With Mixed Cancer-A Cross-Sectional Study of Routine Clinical Data. *Front Psychol* 11,591771. DOI: 10.3389/fpsyg.2020.591771
- Pohlmann, D., Barth, A., Macedo, S., Pleyer, U., Winterhalter, S., Albayrak, O. (2020). The impact of impending / onset of vision loss on depression, anxiety, and vision-related quality of life in Birdshot-Retinochoroiditis and Serpiginous Choroiditis *PLoS One* 15,e0239210. DOI: 10.1371/journal.pone.0239210
- Raemen, L., Luyckx, K., Müller, A., Buelens, T., Verschuere, M., Claes, L. (2020). Non-Suicidal Self-Injury and Pathological Buying in Community Adults and Patients with Eating Disorders: Associations with Reactive and Regulative Temperament *Psychol Belg* 60,396-410. DOI: 10.5334/pb.1027
- Rothe, H.M., Cuntz, U., Driessen, M., Jäger, B., Krüger, C., Längle, G., Bergmann, G., Heuft, G. (2020). Psychosomatische Institutsambulanzen (PsIA) - und (k)ein Ende. Ein guter Anfang, der nun weiterentwickelt werden will *Z Psychosom Med Psychother* 66,32-46. DOI: 10.13109/zptm.2020.66.1.32
- Rumpf, H.J., Brand, M., Wegmann, E., Montag, C., Müller, A., Müller, K., Wölfling, K., Stark, R., Steins-Löber, S., Hayer, T., Schlossarek, S., Hoffmann, H., Leménager, T., Lindenberg, K., Thomasius, R., Batra, A., Mann, K., te Wildt, B., Mößle, T., Rehbein, F. (2020). Covid-19-Pandemie und Verhaltenssuchte. *Sucht* 66,212-216. DOI: 10.1024/0939-5911/a000672
- Schwenger-Fink, C., Bergmann, I., Zimmermann, T. (2020). Wissen und Handeln – Erziehungsbedarf von Müttern mit Kleinkindern: Eine qualitative Untersuchung. *Zeitschrift für Psychiatrie, Psychologie und Psychotherapie* 68,243-251. DOI: 10.1024/1661-4747/a000422
- Stavropoulos, V., Baynes, K.L., O'Farrel, D.L., Gomez, R., Mueller, A., Yucel, M., Griffiths, M. (2020). Inattention and Disordered Gaming: Does Culture Matter? *Psychiatr Q* 91,333-348. DOI: 10.1007/s11126-019-09702-8
- Stavropoulos, V., Gomez, R., Mueller, A., Yucel, M., Griffiths, M. (2020). User-avatar bond profiles: How do they associate with disordered gaming? *Addict Behav* 103,106245. DOI: 10.1016/j.addbeh.2019.106245
- Steins-Loeber, S., Lörsch, F., van der Velde, C., Müller, A., Brand, M., Duka, T., Wolf, O.T. (2020). Does acute stress influence the Pavlovian-to-instrumental transfer effect? Implications for substance use disorders *Psychopharmacology (Berl)* 237,2305-2316. DOI: 10.1007/s00213-020-05534-8
- Trotzke, P., Müller, A., Brand, M., Starcke, K., Steins-Loeber, S. (2020). Buying despite negative consequences: Interaction of craving, implicit cognitive processes, and inhibitory control in the context of buying-shopping disorder *Addict Behav* 110,DOI: 10.1016/j.addbeh.2020.106523
- Voderholzer, U., de Zwaan, M., Löwe, B., Schulze, U., Herpertz-Dahlmann, B. (2020). Transition von Adoleszenten mit Essstörungen in das Erwachsenenalter: Das Positionspapier der Task-Force Transitionspsychiatrie der DGKJP und DGPPN *Z Kinder Jugendpsychiatr Psychother* 48,443-447. DOI: 10.1024/1422-4917/a000727
- Waldenburger, N., Steinecke, M., Peters, L., Jünemann, F., Bara, C., Zimmermann, T. (2020). Depression, anxiety, fear of progression, and emotional arousal in couples after left ventricular assist device implantation *ESC Heart Fail* 7,3022-3028. DOI: 10.1002/ehf2.12927
- Zimmermann, T., Dolle, S., Waldenburger, N., Junemann, F., Bara, C. (2021). Relationship quality, dyadic coping, and depression in couples with left ventricular assist device implantation. *Eur J Cardiovasc Nurs* 20,342-347. DOI: 10.1093/eurjcn/zvaa004

Übersichtsarbeiten

Brand, M., Rumpf, H.J., Demetrovics, Z., Müller, A., Stark, R., King, D.L., Goudriaan, A.E., Mann, K., Trotzke, P., Fineberg, N.A.,

Chamberlain, S.R., Kraus, S.W., Wegmann, E., Billieux, J., Potenza, M.N. (2020). Which conditions should be considered as disorders in the International Classification of Diseases (ICD-11) designation of "other specified disorders due to addictive behaviors"? *J Behav Addict* DOI: 10.1556/2006.2020.00035

de Zwaan, M., Müller, A. (2020). Depression und Suizid/Suizidalität nach adipositaschirurgischen Eingriffen. *Adipositas* 14,224-228. DOI: 10.1055/a-1241-7626

de Zwaan, M., Tigges-Limmer, K., Spaderna, H. (2020). Warten auf ein neues Herz. *Herz heute* 24-29.

Laskowski, N.M., Meyer, V., Trillmich, T., Ernst, A., Müller, A. (2021). Empfehlungen zur Implementierung eines Beratungsangebots bei exzessivem Medienkonsum und internetbezogenen Störungen. *Suchttherapie* 22,44-51. DOI: 10.1055/a-1234-1644

Müller, A., Claes, L., Kyrios, M. (2020). Object attachment in buying-shopping disorder *Curr Opin Psychol* 39,115-120. DOI: 10.1016/j.copsyc.2020.08.019

Müller, A., Wölfling, K., Müller, K.W. (2020). Störungen durch abhängiges Verhalten. *Psychotherapeut* 65,53-66. DOI: 10.1007/s00278-019-00396-8

Müller, A., Wölfling, K., Müller, K.W. (2020). Störungen durch abhängiges Verhalten. *Psychotherapeut* 65,53-66. DOI: 10.1007/s00278-019-00396-8

Paixao, C., Dias, C.M., Jorge, R., Carraca, E.V., Yannakoulia, M., de Zwaan, M., Soini, S., Hill, J.O., Teixeira, P.J., Santos, I. (2020). Successful weight loss maintenance: A systematic review of weight control registries *Obes Rev* 21,e13003. DOI: 10.1111/obr.13003

Zimmermann, T. (2020). Krebs und Sexualität. *Haut* 31,104-107.

Editorials

de Zwaan, M., Herpertz, S. (2020). So etwas haben wir noch nie erlebt! *Psychother Psychosom Med Psychol* 70,171-172. DOI: 10.1055/a-1135-0022

Kalarchian, M.A., De Zwaan, M. (2020). Editorial: Psychosomatic Aspects of Obesity *Front Psychiatry* 11,614903. DOI: 10.3389/fpsyt.2020.614903

Müller, A. (2020). Mental health disorders: prevalent but widely ignored in academia? *J Physiol* 598,1279-1281. DOI: 10.1113/JP279386

Buchbeiträge, Monografien

de Zwaan, M., Herpertz-Dahlmann, B. (2020). Essstörungen (ICD-10 F50). In: *Therapie psychischer Erkrankungen : state of the art : 2020*, Voderholzer U., eds. (München: Elsevier) pp. 343-358

de Zwaan, M., Zipfel, S. (2020). Anorexia nervosa und Bulimia nervosa. In: *Psychosomatik - neurobiologisch fundiert und evidenzbasiert : ein Lehr- und Handbuch*, Egle U.T., eds. (Stuttgart: Verlag W. Kohlhammer) pp. 375-384

Diegelmann, C., Isermann, M., Zimmermann, T. (2020). *Therapie-Tools Psychoonkologie Mit E-Book inside und Arbeitsmaterial* (Weinheim: Beltz).

Müller, A., Brand, M., Mitchell, J.E., de Zwaan, M. (2020). Internet Shopping Disorder. In: *The Oxford Handbook of Digital Technologies and Mental Health*, Potenza M.N., eds. (New York, NY: Oxford University Press) pp. 212-223

Müller, A., Laskowski, N.M., Tahmassebi, N. (2020). *Therapie-Tools Kaufsucht : mit E-Book inside und Arbeitsmaterial* (Weinheim, Basel: Beltz).

Pape, L., Mazhari, A.L., Nolting, H.D., Wolff, J.K., Gertges, R., Hartleib-Otto, M., de Zwaan, M., Tegtbur, U., Lonnemann, G., Kliem, V., Feldhaus, F., Hellrung, N., Schiffer, M. (2020). NTx360° - ein klinik- und sektorenübergreifendes koordiniertes, multimodales, telemedizin-basiertes Nachsorgemodell nach Nierentransplantation. In: *Market Access im Gesundheitswesen : Hürden und Zugangswege zur Gesundheitsversorgung*, Pfannstiel M.A., eds. (Wiesbaden, Heidelberg: Springer Gabler) pp. 269-286

Herausgeberschaften

Müller, A., Laskowski, N.M., Tahmassebi, N. (2020). *Therapie-Tools Kaufsucht mit E-Book inside und Arbeitsmaterial* (Weinheim Basel: Beltz).

Promotionen

Abeling, B.L. (2019). Negative Effekte von Psychotherapie: Häufigkeit und Korrelate in einer klinischen Stichprobe. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Dorozhkina, R. (2020). Spezifisches Gesundheitswissen und Gesundheitskompetenz von Patienten vor und nach Adipositaschirurgie. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Hannighofer, J. (2019). Langfristige Effekte zwischen Beziehungsqualität, Partnerschaftsstabilität und Lebenszufriedenheit und deren Auswirkungen auf das psychische Wohlbefinden von Mutter und Kind eine 10-Jahres Untersuchung. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Klewitz, F.S. (2020). A deeper insight into the adherence of kidney transplant recipients. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Laskowski, N.M. (2020). Delphi-Studie zur Entwicklung von Diagnosekriterien für pathologisches Kaufen = Development of diagnostic criteria for buying-shopping disorder by using the Delphi-method. Dissertation, Medizinische Hochschule Hannover, 2020

Rauch, S. (2019). Dyadisches Coping bei Patienten mit Prostata- und Kehlkopfkrebs und ihren Partnerinnen Untersuchung von krebs- und paarspezifischen Unterschieden sowie Assoziationen von dyadischem Coping mit alters- und krebsbedingtem Distress Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Zentrum Augenheilkunde, Hals-Nasen-Ohren-Heilkunde, Phoniatrie und Pädaudiologie

Klinik für Augenheilkunde – 6120

Originalpublikationen

Bruns, Y., Junker, B., Boehringer, D., Framme, C., Pielen, A. (2020). Comparison of Macular Pigment Optical Density in Glaucoma Patients and Healthy Subjects - A Prospective Diagnostic Study. *Clin Ophthalmol* 14,1011-1017. DOI: 10.2147/OPTH.S224259

Büttner, M., Luger, B., Abou Moulig, W., Junker, B., Framme, C., Jacobsen, C., Knoll, K., Pielen, A., SRT Study Group. (2021). Selective retina therapy (SRT) in patients with therapy refractory persistent acute central serous chorioretinopathy (CSC): 3 months functional and morphological results. *Graefes Arch Clin Exp Ophthalmol* 259,1401-1410. DOI: 10.1007/s00417-020-04999-9

Framme, C., Gottschling, J., Kuiper, T., Lobbes, W., Palmaers, T., Brockmann, D., Lagreze, W.A., Hufendiek, K. (2020). Kostenträgerrechnungen von strabologischen Operationen an einer Universitäts-Augenklinik *Ophthalmologie* 117,1006-1014. DOI: 10.1007/s00347-020-01227-x

Framme, C., Greb, O., Bayer, S., Buley, P., Pielen, A., Hufendiek, K., Junker, B., Volkmann, I. (2020). Entwicklung eines patientennahen Organisationsmanagements für die intravitreale Injektionstherapie in einem standardisierten "Treat-and-Extend"-Regime an einer Universitäts-Augenklinik. *Klin Monbl Augenheilkd* DOI: 10.1055/a-1266-3546

Framme, C., Hoerauf, H., Wachtlin, J., Volkmann, I., Bartram, M., Junker, B., Feltgen, N. (2020). Retinale Lasertherapie - Fehler vermeiden. *Ophthalmologie* 117,169-188. DOI: 10.1007/s00347-019-01035-y

Fuchs, H.R., Meister, R., Lotke, R., Framme, C. (2020). The microRNAs miR-302d and miR-93 inhibit TGF β -mediated EMT and VEGFA secretion from ARPE-19 cells *Exp Eye Res* 207,108258. DOI: 10.1016/j.exer.2020.108258

Gellrich, M.M., Hufendiek, K. (2021). Pachymetrie mit einer Videospaltlampe *Ophthalmologie* 118,162-168. DOI: 10.1007/s00347-020-01108-3

Hufendiek, K., Hufendiek, K., Jägle, H., Stöhr, H., Book, M., Spital, G., Rustambayova, G., Framme, C., Weber, B.H.F., Renner, A.B., Kellner, U. (2020). Clinical Heterogeneity in Autosomal Recessive Bestrophinopathy with Biallelic Mutations in the BEST1 Gene *Int J Mol Sci* 27, DOI: 10.3390/ijms21249353

Hupe, M.C., Büttner, M., Tabrizi, P.F., Merseburger, A.S., Kuczyk, M.A., Imkamp, F. (2021). Hemopatch® as a Hemostatic Agent is Safe in Partial Nephrectomy: A Large, Single-Surgeon Retrospective Evaluation. *Adv Ther* 38,1024-1034. DOI: 10.1007/s12325-020-01584-8

Jacobsen, C., Volkman, I., Wedegärtner, F., Harris, J., Bertram, B., Gass, P., Bambas, B., Framme, C. (2020). Erfahrungen von Aggression und Gewalt gegen Augenärztinnen und Augenärzte *Ophthalmologie* 117,775-785. DOI: 10.1007/s00347-020-01039-z

Khan, M., Cornelis, S.S., Pozo-Valero, M.D., Whelan, L., Runhart, E.H., Mishra, K., Bults, F., AlSwaiti, Y., AlTalishi, A., De Baere, E., Banfi, S., Banin, E., Bauwens, M., Ben-Yosef, T., Boon, C.J.F., van den Born, L.I., Defoort, S., Devos, A., Dockery, A., Dudakova, L., Fakin, A., Farrar, G.J., Sallum, J.M.F., Fujinami, K., Gilissen, C., Glavac, D., Gorin, M.B., Greenberg, J., Hayashi, T., Hettinga, Y.M., Hoischen, A., Hoyng, C.B., Hufendiek, K., Jägle, H., Kamakari, S., Karali, M., Kellner, U., Klaver, C.C.W., Kousal, B., Lamey, T.M., MacDonald, I.M., Matynia, A., McLaren, T.L., Mena, M.D., Meunier, I., Miller, R., Newman, H., Ntozini, B., Oldak, M., Pieterse, M., Podhajcer, O.L., Puech, B., Ramesar, R., Rütger, K., Salameh, M., Salles, M.V., Sharon, D., Simonelli, F., Spital, G., Steehouwer, M., Szaflik, J.P., Thompson, J.A., Thuillier, C., Tracewska, A.M., van Zweeken, M., Vincent, A.L., Zanlonghi, X., Liskova, P., Stöhr, H., Roach, J.N., Ayuso, C., Roberts, L., Weber, B.H.F., Dhaenens, C.M., Cremers, F.P.M. (2020). Resolving the dark matter of ABCA4 for 1054 Stargardt disease probands through integrated genomics and transcriptomics *Genet Med* 22,1235-1246. DOI: 10.1038/s41436-020-0787-4

Larsen, P.P., Müller, A., Lagreze, W.A., Holz, F.G., Stahl, A., Krohne, T.U., German Retina.net ROP Registry Study Group. (2020). Incidence of retinopathy of prematurity in Germany: evaluation of current screening criteria *Arch Dis Child Fetal Neonatal Ed* DOI: 10.1136/archdischild-2020-319767

Schargus, M., Wachtlin, J., Aisenbrey, S., Blum, M., Framme, C., Hattenbach, L.O., Hoerauf, H., Kaskel-Paul, S., Geerling, G. (2020). Zum Status der Personalplanung für den ärztlichen Dienst in ophthalmologischen Hauptabteilungen in Deutschland *Ophthalmologie* 117,905-913. DOI: 10.1007/s00347-020-01203-5

u, S., Framme, C., Menke, M.N., Berger, L.E., Zinkernagel, M.S., Munk, M.R., Wolf, S., Ebnetter, A. (2020). Neuroprotection with rasagiline in patients with macula-off retinal detachment: A randomized controlled pilot study. *Sci Rep* 10,4948. DOI: 10.1038/s41598-020-61835-0

Volkman, I., Knoll, K., Wiezorrek, M., Greb, O., Framme, C. (2020). Individualized treat-and-extend regime for optimization of real-world vision outcome and improved patients' persistence. *BMC Ophthalmol* 20,122. DOI: 10.1186/s12886-020-01397-x

Wachtlin, J., Eter, N., Hasanbasic, Z., Keramas, G., Rech, C., Sachs, H., Schilling, H., Wiedemann, P., Framme, C. (2021). Importance of continuous treatment with intravitreal aflibercept injections in patients with neovascular age-related macular degeneration-12-month post hoc analysis of the PERSEUS real-world evidence study *Graefes Arch Clin Exp Ophthalmol* 259,601-611. DOI: 10.1007/s00417-020-04803-8

Wagner, H., Pielen, A., Agostini, H., Böhringer, D., Lagreze, W.A., Biermann, J. (2020). Surgical outcomes in patients with optic disc pit maculopathy: does peeling the ILM lead to better outcomes? *Int Ophthalmol* 40,3363-3376. DOI: 10.1007/s10792-020-01524-z

Übersichtsarbeiten

Leal-Marín, S., Kern, T., Hofmann, N., Pogozhykh, O., Framme, C., Borgel, M., Figueiredo, C., Glasmacher, B., Gryshkov, O. (2020). Human Amniotic Membrane: A review on tissue engineering, application, and storage. *J Biomed Mater Res B Appl Biomater* DOI: 10.1002/jbm.b.34782

Case reports

Huber, M., Rogozinski, S., Puppe, W., Framme, C., Höglinger, G., Hufendiek, K., Wegner, F. (2020). Postinfectious Onset of Myasthenia Gravis in a COVID-19 Patient *Front Neurol* 11,576153. DOI: 10.3389/fneur.2020.576153

Scheer, H., Pielen, A., Bajor, A., Framme, C., Hufendiek, K. (2021). Bilaterale posteriore exsudative Netzhautablösung bei HELLP-Syndrom. *Ophthalmologie* 118,1140-1142. DOI: 10.1007/s00347-020-01257-5

Abstracts

Brinkmann, R., Abbas, H., Kren, C., Danicke, V., Theisen-Kunde, D., Miura, Y., Tode, J., von der Burchard, C., Roeder, J. (2020). Automatic Temperature Controlled Retinal Laser Therapies. *Invest Ophthalmol Vis Sci* 61,1354.

Hösel, K., Tode, J., Stöcker, M., Richert, E., Klettner, A., Rose-John, S., Roeder, J. (2020). Longitudinal Analysis of Murine Visual Function in Experimental Autoimmune Uveitis (EAU). *Invest Ophthalmol Vis Sci* 61,3680.

Tode, J., Richert, E., von der Burchard, C., Brinkmann, R., Klettner, A., Roeder, J. (2020). Inflammatory Processes Following Thermal Stimulation of the Retina (TSR) and Selective Retina Therapy (SRT) in AMD Mouse Models. *Invest Ophthalmol Vis Sci* 61,1352.

Klinik für Hals-, Nasen-, Ohrenheilkunde – 6500

Originalpublikationen

Alvarado, J.C., Fuentes-Santamaria, V., Juiz, J.M. (2020). Antioxidants and Vasodilators for the Treatment of Noise-Induced Hearing Loss: Are They Really Effective? *Front Cell Neurosci* 14,226. DOI: 10.3389/fncel.2020.00226

Alvarado, J.C., Fuentes-Santamaria, V., Melgar-Rojas, P., Gabaldon-Ull, M.C., Cabanes-Sanchis, J.J., Juiz, J.M. (2020). Oral Antioxidant Vitamins and Magnesium Limit Noise-Induced Hearing Loss by Promoting Sensory Hair Cell Survival: Role of Antioxidant Enzymes and Apoptosis Genes *Antioxidants (Basel)* 9,1177. DOI: 10.3390/antiox9121177

Andrade, J.S.C., Baumhoff, P., Cruz, O.L.M., Lenarz, T., Kral, A. (2020). Cochlear implantation in an animal model documents cochlear damage at the tip of the implant *Braz J Otorhinolaryngol* DOI: 10.1016/j.bjorl.2020.07.017

Behrens, A., Stieghorst, J., Doll, T., Frierip, U.P. (2020). Laser-Facilitated Additive Manufacturing Enables Fabrication of Biocompatible Neural Devices *Sensors (Basel)* 20,DOI: 10.3390/s20226614

Buchman, C.A., Gifford, R.H., Haynes, D.S., Lenarz, T., O'Donoghue, G., Adunka, O., Biever, A., Briggs, R.J., Carlson, M.L., Dai, P., Driscoll, C.L., Francis, H.W., Gantz, B.J., Gurgel, R.K., Hansen, M.R., Holcomb, M., Karltorp, E., Kirtane, M., Larky, J., Mylanus, E.A.M., Roland, J.T., Jr, Saeed, S.R., Skarzynski, H., Skarzynski, P.H., Syms, M., Teagle, H., Van de Heyning, P.H., Vincent, C., Wu, H., Yamasoba, T., Zwolan, T. (2021). Unilateral Cochlear Implants for Severe, Profound, or Moderate Sloping to Profound Bilateral Sensorineural Hearing Loss: A Systematic Review and Consensus Statements *JAMA Otolaryngol Head Neck Surg* 146,942-953. DOI: 10.1001/jamaoto.2020.0998

Buechner, A., Krueger, B., Klawitter, S., Zimmermann, D., Fredelake, S., Holube, I. (2020). The perception of the stereo effect in bilateral and bimodal cochlear implant users and its contribution to music enjoyment *PLoS One* 15,e0235435. DOI: 10.1371/journal.pone.0235435

Claussen, M., Schulze, J., Nothwang, H.G. (2020). Loss of inner hair cell ribbon synapses and auditory nerve fiber regression in *Cldn14* knockout mice *Hear Res* 391,107950. DOI: 10.1016/j.heares.2020.107950

Degen, C.V., Büchner, A., Kludt, E., Lenarz, T. (2020). Effect of Electrode to Modiolus Distance on Electrophysiological and Psychophysical Parameters in CI Patients With Perimodiolar and Lateral Electrode Arrays *Otol Neurotol* 41,e1091-e1097. DOI: 10.1097/MAO.0000000000002751

El Boghdady, N., Langner, F., Gaudrain, E., Baskent, D., Nogueira, W. (2021). Effect of Spectral Contrast Enhancement on Speech-on-Speech Intelligibility and Voice Cue Sensitivity in Cochlear Implant Users *Ear Hear* 42,271-289. DOI: 10.1097/AUD.0000000000000936

El-Saied, S., Schmitt, H., Durisin, M., Joshua, B.Z., Abu Tailakh, M., Prenzler, N., Lenarz, T., Kaplan, D.M., Lewis, E.C., Warnecke, A. (2020). Endogenous alpha1-antitrypsin levels in the perilymphatic fluid correlates with severity of hearing loss *Clin Otolaryngol* 45,495-499. DOI: 10.1111/coa.13541

Espersen, J., Weber, U., Römer-Franz, A., Lenarz, T., Stolle, S.R.O., Warnecke, A. (2020). Level of sex hormones and their association with acetylsalicylic acid intolerance and nasal polyposis *PLoS One* 15,e0243732. DOI: 10.1371/journal.pone.0243732

Fleissner, F., Timm, M.E., Lang, C.P., Lenarz, T., Kühn, C., Jaeger, D.B. (2020). Tracheal Transection-A Novel Airway Management *Thorac Cardiovasc Surg Rep* 9,e24-e28. DOI: 10.1055/s-0040-1710586

Gajecki, T., Nogueira, W. (2020). The effect of synchronized linked band selection on speech intelligibility of bilateral cochlear implant users *Hear Res* 396,108051. DOI: 10.1016/j.heares.2020.108051

Gao, Z., Matin, F., Weber, C., John, S., Lenarz, T., Scheper, V. (2020). High Variability of Postsurgical Anatomy Supports the Need for Individualized Drug-Eluting Implants to Treat Chronic Rhinosinusitis *Life (Basel)* 10,DOI: 10.3390/life10120353

Gärtner, L., Büchner, A., Illg, A., Lenarz, T. (2021). Hidden Electrode Failure in a Cochlear Implant User. *The Laryngoscope* 131,E1275-E1278. DOI: 10.1002/lary.29023

Ghoncheh, M., Lenarz, T., Maier, H. (2020). A Precision Driver Device for Intraoperative Stimulation of a Bone Conduction Implant *Sci Rep* 10,1797. DOI: 10.1038/s41598-020-58512-7

Heilen, S., Lang, C.P., Warnecke, A., Lenarz, T., Durisin, M. (2020). Exploratory tympanotomy in sudden sensorineural hearing loss for the identification of a perilymphatic fistula - retrospective analysis and review of the literature *J Laryngol Otol* 134,501-508. DOI: 10.1017/S0022215120000948

- Janzen-Senn, I., Schuon, R.A., Tavassol, F., Lenarz, T., Paasche, G. (2020). Dimensions and position of the Eustachian tube in Humans PLoS One *15*,e0232655. DOI: 10.1371/journal.pone.0232655
- Kessler, M., Schierholz, I., Mamach, M., Wilke, F., Hahne, A., Büchner, A., Geworski, L., Bengel, F.M., Sandmann, P., Berding, G. (2020). Combined Brain-Perfusion SPECT and EEG Measurements Suggest Distinct Strategies for Speech Comprehension in CI Users With Higher and Lower Performance. *Front Neurosci* *14*,787. DOI: 10.3389/fnins.2020.00787
- Kipping, D., Krüger, B., Nogueira, W. (2020). The role of electroneural versus electrophonic stimulation on psychoacoustic electric-acoustic masking in cochlear implant users with residual hearing *Hear Res* *395*,108036. DOI: 10.1016/j.heares.2020.108036
- Knipper, M., van Dijk, P., Schulze, H., Mazurek, B., Krauss, P., Scheper, V., Warnecke, A., Schlee, W., Schwabe, K., Singer, W., Braun, C., Delano, P.H., Fallgatter, A.J., Ehlis, A.C., Searchfield, G.D., Munk, M.H.J., Baguley, D.M., Rüttiger, L. (2020). The Neural Bases of Tinnitus: Lessons from Deafness and Cochlear Implants *J Neurosci* *40*,7190-7202. DOI: 10.1523/JNEUROSCI.1314-19.2020
- Konrad, S., Framke, T., Kludt, E., Büchner, A., Lenarz, T., Paasche, G. (2020). Do Impedance Changes Correlate With a Delayed Hearing Loss After Hybrid L24 Implantation? *Ear Hear* *42*,163-172. DOI: 10.1097/AUD.0000000000000914
- Krüger, B., Büchner, A., Lenarz, T., Nogueira, W. (2020). Amplitude growth of intracochlear electrocochleography in cochlear implant users with residual hearing *J Acoust Soc Am* *147*,1147. DOI: 10.1121/10.0000744
- Krüger, B., Büchner, A., Lenarz, T., Nogueira, W. (2020). Electric-acoustic interaction measurements in cochlear-implant users with ipsilateral residual hearing using electrocochleography *J Acoust Soc Am* *147*,350. DOI: 10.1121/10.0000577
- Langner, F., Büchner, A., Nogueira, W. (2020). Evaluation of an Adaptive Dynamic Compensation System in Cochlear Implant Listeners *Trends Hear* *24*,DOI: 10.1177/2331216520970349
- Langner, F., McKay, C.M., Büchner, A., Nogueira, W. (2020). Perception and prediction of loudness in sound coding strategies using simultaneous electric stimulation *Hear Res* *398*,108091. DOI: 10.1016/j.heares.2020.108091
- Lenarz, T., Buechner, A., Lesinski-Schiedat, A., Timm, M., Salcher, R. (2020). Hearing Preservation With a New Atraumatic Lateral Wall Electrode *Otol Neurotol* *41*,e993-e1003. DOI: 10.1097/MAO.0000000000002714
- Lesinski-Schiedat, A., Lenarz, T., Illg, A. (2020). Diagnostik und Therapie von Schwerhörigkeit inkl. Cochlea-Implantat bei Migranten in Deutschland *Laryngorhinootologie* *99*,224-228. DOI: 10.1055/a-1071-1851
- Ljutenski, S., El-Saied, S., Schwab, B. (2020). Impact of occlusive material and cochlea-carotid artery relation on eustachian tube occlusion in subtotal petrosectomy *Laryngoscope Investig Otolaryngol* *5*,1140-1146. DOI: 10.1002/lio2.478
- Ljutenski, S., Erfurt, P., Ochs, M., Lenarz, T. (2020). Reprint of Corrosion casting of the temporal bone: Review of the technique *Ann Anat* *230*,151518. DOI: 10.1016/j.aanat.2020.151518
- Maier, H. (2021). Audiologische Zielparameter bei klinischen Studien mit implantierbaren Hörsystemen *HNO* *69*,483-490. DOI: 10.1007/s00106-020-00873-6
- Marcoleta, J.P., Nogueira, W., Doll, T. (2020). Distributed mixed signal demultiplexer for electrocorticography electrodes *Biomed Phys Eng Express* *6*,055006. DOI: 10.1088/2057-1976/ab9fed
- Marcoleta, J.P., Nogueira, W., Yoma, N.B., Wuth, J., Jakimovski, F., Fuenzalida, V.M., Doll, T. (2020). Implantable Neuroamplifiers for Electrocorticography Using Flexible and Biocompatible Technology. *Phys Status Solidi A* *217*,1900830. DOI: 10.1002/pssa.201900830
- Matin, F., Haumann, S., Rossberg, W., Mitovska, D., Lenarz, T., Lesinski-Schiedat, A. (2021). Monitoring of the auditory pathway maturation after early intervention during the first year of life in infants with sensorineural hearing loss *Eur Arch Otorhinolaryngol* *278*,4187-4197. DOI: 10.1007/s00405-020-06498-3
- Nagai, M., Scheper, V., Lenarz, T., Förster, C.Y. (2021). The insular cortex as a vestibular area in relation to autonomic function *Clin Auton Res* *31*,179-185. DOI: 10.1007/s10286-020-00744-8
- Peter, M.N., Paasche, G., Reich, U., Lenarz, T., Warnecke, A. (2020). Differential Effects of Low- and High-Dose Dexamethasone on Electrically Induced Damage of the Cultured Organ of Corti *Neurotox Res* *38*,487-497. DOI: 10.1007/s12640-020-00228-7

- Prenzler, N.K., Salcher, R., Lenarz, T., Gaertner, L., Warnecke, A. (2020). Dose-Dependent Transient Decrease of Impedances by Deep Intracochlear Injection of Triamcinolone With a Cochlear Catheter Prior to Cochlear Implantation-1 Year Data *Front Neurol* *11*,258. DOI: 10.3389/fneur.2020.00258
- Prenzler, N.K., Weller, T., Steffens, M., Lesinski-Schiedat, A., Büchner, A., Lenarz, T., Warnecke, A. (2020). Impedance Values Do Not Correlate With Speech Understanding in Cochlear Implant Recipients *Otol Neurotol* *41*,e1029-e1034. DOI: 10.1097/MAO.0000000000002743
- Rau, T.S., Zuniga, M.G., Salcher, R., Lenarz, T. (2020). A simple tool to automate the insertion process in cochlear implant surgery *Int J Comput Assist Radiol Surg* *15*,1931-1939. DOI: 10.1007/s11548-020-02243-7
- Raufer, S., Gamm, U.A., Grossöhminen, M., Lenarz, T., Maier, H. (2021). Middle Ear Actuator Performance Determined From Intracochlear Pressure Measurements in a Single Cochlear Scala *Otol Neurotol* *42*,e86-e93. DOI: 10.1097/MAO.0000000000002836
- Raufer, S., Idoff, C., Zosuls, A., Marino, G., Blanke, N., Bigio, I.J., O'Malley, J.T., Burgess, B.J., Nadol, J.B., Guinan, J.J., Jr, Nakajima, H.H. (2020). Anatomy of the Human Osseous Spiral Lamina and Cochlear Partition Bridge: Relevance for Cochlear Partition Motion *J Assoc Res Otolaryngol* *21*,171-182. DOI: 10.1007/s10162-020-00748-1
- Rossberg, W., Goetz, F., Timm, M.E., Lenarz, T., Helmstaedter, V. (2020). Intratympanic application of triamcinolone in sudden hearing loss-radiologic anatomy in cone beam CT and its' correlation to clinical outcome *Eur Arch Otorhinolaryngol* *277*,1931-1937. DOI: 10.1007/s00405-020-05920-0
- Rossberg, W., Timm, M., Matin, F., Zaroni, A., Krüger, C., Giourgas, A., Bültmann, E., Lenarz, T., Kral, A., Lesinski-Schiedat, A. (2021). First results of electrode reimplantation and its hypothetical dependence from artificial brain maturation *Eur Arch Otorhinolaryngol* *278*,951-958. DOI: 10.1007/s00405-020-06125-1
- Salcher, R., Boruchov, A., Timm, M., Steffens, M., Giesemann, A., Lenarz, T., Warnecke, A. (2021). On the Intracochlear Location of Straight Electrode Arrays After Cochlear Implantation: How Lateral Are Lateral Wall Electrodes? *Otol Neurotol* *42*,242-250. DOI: 10.1097/MAO.0000000000002880
- Scheper, V., Schmidtheisler, M., Lasch, F., von der Leyen, H., Koch, A., Schwieger, J., Büchner, A., Lesinski-Schiedat, A., Lenarz, T. (2020). Randomized placebo-controlled clinical trial investigating the effect of antioxidants and a vasodilator on overall safety and residual hearing preservation in cochlear implant patients *Trials* *21*,643. DOI: 10.1186/s13063-020-04522-9
- Scheper, V., Seidel-Effenberg, I., Lenarz, T., Stöver, T., Paasche, G. (2020). Consecutive Treatment with Brain-Derived Neurotrophic Factor and Electrical Stimulation Has a Protective Effect on Primary Auditory Neurons *Brain Sci* *10*,559. DOI: 10.3390/brainsci10080559
- Schulze, J., Staecker, H., Wedekind, D., Lenarz, T., Warnecke, A. (2020). Expression pattern of brain-derived neurotrophic factor and its associated receptors: Implications for exogenous neurotrophin application *Hear Res* DOI: 10.1016/j.heares.2020.108098
- Schwieger, J., Hamm, A., Gepp, M.M., Schulz, A., Hoffmann, A., Lenarz, T., Scheper, V. (2020). Alginate-encapsulated brain-derived neurotrophic factor-overexpressing mesenchymal stem cells are a promising drug delivery system for protection of auditory neurons *J Tissue Eng* *11*,2041731420911313. DOI: 10.1177/2041731420911313
- Seeliger, T., Böinig, L., Witte, T., Thiele, T., Lesinski-Schiedat, A., Stangel, M., Lenarz, T., Prenzler, N.C., Skripuletz, T. (2020). Hearing dysfunction in patients with Neuro-Sjogren: a cross-sectional study *Ann Transl Med* *8*,1069-20-1856. DOI: 10.21037/atm-20-1856
- Seeliger, T., Jacobsen, L., Hendel, M., Böinig, L., Kristian Prenzler, N.K., Thiele, T., Ernst, D., Witte, T., Stangel, M., Kopp, B., Skripuletz, T. (2020). Cognitive impairment in patients with Neuro-Sjogren *Ann Clin Transl Neurol* *7*,1352-1359. DOI: 10.1002/acn3.51123
- Shew, M., Wichova, H., Bur, A., Koestler, D.C., St Peter, M., Warnecke, A., Staecker, H. (2021). MicroRNA Profiling as a Methodology to Diagnose Meniere's Disease: Potential Application of Machine Learning *Otolaryngol Head Neck Surg* *164*,399-406. DOI: 10.1177/0194599820940649
- Stöver, T., Dazert, S., Hoffmann, T.K., Plontke, S.K., Ambrosch, P., Arens, C., Betz, C., Beutner, D., Bohr, C., Bruchhage, K.L., Canis, M., Dietz, A., Guntinas-Lichius, O., Hagen, R., Hosemann, W., Iro, H., Klussmann, J.P., Knopf, A., Kramer, S., Lang, S., Leinung, M., Lenarz, T., Löwenheim, H., Matthias, C., Mlynski, R., Olze, H., Park, J., Plinkert, P., Radeloff, A., Rotter, N., Rudack, C., Bozzato, A., Schipper, J., Schrader, M., Strieth, S., Stuck, B.A., Volkenstein, S., Westhofen, M., Wolf, G., Wollenberg, B., Zahnert, T., Zenk, J. (2020). Auswirkungen der SARS-CoV-2-Pandemie auf die universitäre Hals-Nasen-Ohrenheilkunde im Bereich der Krankenversorgung *Laryngorhinootologie* *99*,694-706. DOI: 10.1055/a-1232-4911

Tahmasebi, S., Gajecki, T., Nogueira, W. (2020). Design and Evaluation of a Real-Time Audio Source Separation Algorithm to Remix Music for Cochlear Implant Users *Front Neurosci* 14,434. DOI: 10.3389/fnins.2020.00434

Thum, C., Lenarz, T., Lesinski-Schiedat, A., Flessa, S. (2020). Lifetime cost of unilateral cochlear implants in adults: a Monte Carlo simulation *Eur J Health Econ* 27,963-975. DOI: 10.1007/s10198-020-01188-7

Van Beck, J., Chinnadurai, S., Morrison, A.K., Zuniga, M.G., Smith, B., Lohse, C.M., McCaslin, D. (2020). Correlation of air-bone gap and size of Enlarged Vestibular Aqueduct in children *Int J Pediatr Otorhinolaryngol* 132,109909. DOI: 10.1016/j.ijporl.2020.109909

Wackers, G., Cornelis, P., Putzeys, T., Peeters, M., Tack, J., Troost, F., Doll, T., Verhaert, N., Wagner, P. (2021). Electropolymerized Receptor Coatings for the Quantitative Detection of Histamine with a Catheter-Based, Diagnostic Sensor *ACS Sens* 6,100-110. DOI: 10.1021/acssensors.0c01844

Wackers, G., Putzeys, T., Peeters, M., Van de Caeter, L., Cornelis, P., Wübbenhorst, M., Tack, J., Troost, F., Verhaert, N., Doll, T., Wagner, P. (2020). Towards a catheter-based impedimetric sensor for the assessment of intestinal histamine levels in IBS patients *Biosens Bioelectron* 158,112152. DOI: 10.1016/j.bios.2020.112152

Wardenga, N., Diedrich, V., Waldmann, B., Lenarz, T., Maier, H. (2020). Hearing Aid Treatment in Patients with Mixed Hearing Loss. Part I: Expected Benefit and Limitations after Stapes Surgery *Audiol Neurootol* 25,125-132. DOI: 10.1159/000502994

Wardenga, N., Snik, A.F.M., Kludt, E., Waldmann, B., Lenarz, T., Maier, H. (2020). Hearing Aid Treatment for Patients with Mixed Hearing Loss. Part II: Speech Recognition in Comparison to Direct Acoustic Cochlear Stimulation *Audiol Neurootol* 25,133-142. DOI: 10.1159/000504285

Warnecke, A., Harre, J., Staecker, H., Prenzler, N., Strunk, D., Couillard-Despres, S., Romanelli, P., Hollerweger, J., Lassacher, T., Auer, D., Pachler, K., Wietzorrek, G., Köhl, U., Lenarz, T., Schallmoser, K., Laner-Plamberger, S., Falk, C.S., Rohde, E., Gimona, M. (2020). Extracellular vesicles from human multipotent stromal cells protect against hearing loss after noise trauma in vivo *Clin Transl Med* 10,e262. DOI: 10.1002/ctm2.262

Wiegandt, F.C., Froriep, U.P., Doll, T., Dietzel, A., Pohlmann, G. (2021). Novel Test Bench for Inhaler Characterization Including Real-Time Determination of Output, Output Rate, and Liquid Water Content of Delivered Aerosols *J Aerosol Med Pulm Drug Deliv* 34,32-41. DOI: 10.1089/jamp.2020.1611

Zimmermann, D., Busch, S., Lenarz, T., Maier, H. (2020). Audiological Results with the SAMBA Audio Processor in Comparison to the Amade for the Vibrant Soundbridge *Audiol Neurootol* 25,164-172. DOI: 10.1159/000506067 **Case reports**

Degen, C., Lenarz, T., Willenborg, K. (2020). Acute Profound Sensorineural Hearing Loss After COVID-19 Pneumonia *Mayo Clin Proc* 95,1801-1803. DOI: 10.1016/j.mayocp.2020.05.034

Salcher, R.B., Schmidtheisler, M., Büchner, A., Giere, T., Zimmermann, D., Busch, S., Timm, M.E., Maier, H., Lenarz, T. (2020). Case report of the first patient with electro-mechanical stimulation of the inner ear: The Vibrant Soundbridge combined with a FLEX20 cochlear implant. *Otolaryngology Case Reports* 16,100182. DOI: 10.1016/j.xocr.2020.100182

Editorials

Wagner, P., Doll, T., Schoening, M.J. (2020). Engineering of Functional Interfaces. *Phys Status Solidi A* 217,2000345. DOI: 10.1002/pssa.202000345

Abstracts

Landgraf, C., von Hardenberg, S., Lesinski-Schiedat, A., Büchner, A., Schlegelberger, B., Auber, B. (2020). Causes of congenital hearing loss and cochlear implant outcome. *Eur J Hum Genet* 28,188-189.

Promotionen

Gerking, T. (2018). Experimentelle Untersuchung der Genauigkeit eines minimal-invasiven Zugangsweges zur Cochlea unter Verwendung eines Stereotaxierahmens und einer neu entwickelten Bohrerlinearführung. Dissertation, Medizinische Hochschule Hannover, 2020

Gruber, L.J. (2019). Postoperative Komplikationen bei der Implantation von Mittelohrimplantaten des Typs Vibrant Soundbridge Dissertation, Medizinische Hochschule Hannover, 2020

Imsiecke, M. (2020). Characterization of ipsilateral masking effects in electric-acoustic stimulation in cochlear implant users and influence on speech perception. Dissertation, Medizinische Hochschule Hannover, 2020

Marcoleta, J.P. (2020). A novel front-end architecture for high density systems in electrophysiology. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Pannier, C. (2019). Neuronen- und Fibrosequantifizierung im Cochlea-Implantat versorgten Innenohr -- CLSM-basierte Etablierung automatisierter Gewebeanalyse bei verschiedenen Therapieansätzen Dissertation, Medizinische Hochschule Hannover, 2020

Peter, M.N. (2019). In vitro Untersuchungen zum Einfluss der elektrischen Stimulation auf Spiralganglionneurone und das Corti-Organ Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Schwarzensteiner, J. (2020). 3D-Datensatz der Tuba auditiva aus Korrelation histologischer Schnitte und einer Cone-Beam-Computertomographie. Dissertation, Medizinische Hochschule Hannover, 2020

Stolle, M.K.W. (2020). Zur Neuroprotektion und Regeneration von Spiralganglionneuronen unter Einsatz von humanem Plasma: *in vitro* Untersuchungen an dissoziierten Spiralganglionneuronen und Explantaten isoliert aus neonatalen Ratten. Kumulative Dissertation Medizinische Hochschule Hannover 2020

Abteilung Experimentelle Otologie – 8891

Originalpublikationen

Andrade, J.S.C., Baumhoff, P., Cruz, O.L.M., Lenarz, T., Kral, A. (2020). Cochlear implantation in an animal model documents cochlear damage at the tip of the implant Braz J Otorhinolaryngol DOI: 10.1016/j.bjorl.2020.07.017

Konerding, W., Arenberg, J.G., Kral, A., Baumhoff, P. (2020). Late electrically-evoked compound action potentials as markers for acute micro-lesions of spiral ganglion neurons Hear Res 108057. DOI: 10.1016/j.heares.2020.108057

Kral, A., Sato, M. (2020). Nature and nurture in hearing: Critical periods for therapy of deafness. Acoust Sci &Tech 41,54-58. DOI: 10.1250/ast.41.54

Quass, G.L., Baumhoff, P., Gnansia, D., Stahl, P., Kral, A. (2020). Level coding by phase duration and asymmetric pulse shape reduce channel interactions in cochlear implants Hear Res 396,108070. DOI: 10.1016/j.heares.2020.108070

Sato, M., Kral, A. (2020). Dynamic range of cochlear implant stimulation is larger in residually hearing cochlea. Acoust Sci &Tech 41,380-381. DOI: 10.1250/ast.41.380

Klinik für Phoniatrie und Pädaudiologie – 6510

Originalpublikationen

Fast, J.F., Westermann, K.A., Laves, M.H., Jungheim, M., Ptok, M., Ortmaier, T., Kahrs, L.A. (2020). Droplet applicator module for reproducible and controlled endoscopic laryngeal adductor reflex stimulation Biomicrofluidics 14,044112. DOI: 10.1063/5.0004351

Meisoll, F.J., Jungheim, M., Fast, J.F., Miller, S., Ptok, M. (2021). Upper Esophageal Sphincter Response to Laryngeal Adductor Reflex Elicitation in Humans Laryngoscope 131,E1778-E1784. DOI: 10.1002/lary.29166

Miller, S., Neuhaus, M.T., Zimmerer, R., Tavassol, F., Gellrich, N.C., Ptok, M., Jungheim, M. (2020). Three-dimensional analysis of the velopharyngeal region in patients with cleft palate and healthy individuals Surg Radiol Anat 42,1033-1042. DOI: 10.1007/s00276-020-02526-3

Miller, S., Ptok, M., Jungheim, M. (2021). Influence of Acid Swallows on the Dynamics of the Upper Esophageal Sphincter Dysphagia 36,443-455. DOI: 10.1007/s00455-020-10159-2

sonstiges

Miller, S., Ptok, M., Jungheim, M. (2021). Correction to: Influence of Acid Swallows on the Dynamics of the Upper Esophageal Sphincter Dysphagia 36,456. DOI: 10.1007/s00455-020-10210-2

Promotionen

Meisoll, F.J. (2020). Hochauflösungsmanometrische Beurteilung des Muskeltonus im oberen Ösophagus sphinkter bei Auslösung des laryngealen Adduktionsreflexes Dissertation, Medizinische Hochschule Hannover, 2020

Zentrum Zahn-, Mund- und Kieferheilkunde

Klinik für Kieferorthopädie – 7730

Originalpublikationen

Alouini, O., Knösel, M., Blanck-Lubarsch, M., Helms, H.J., Wiechmann, D. (2020). Kontrolle des Schneidezahntorques mit vollständig individuellen linguale Apparaturen J Orofac Orthop 81,328-339. DOI: 10.1007/s00056-020-00231-9

Groddeck, A.L., Schwestka-Polly, R., Hecker, H., Sostmann, M. (2020). Intrapulpale Temperaturen beim Bracket-Bonding mit einer LED-Polymerisationslampe : Eine In-vitro-Pilotstudie J Orofac Orthop 81,396-406. DOI: 10.1007/s00056-020-00246-2

Laursen, M.G., Rylev, M., Melsen, B. (2020). The role of orthodontics in the repair of gingival recessions Am J Orthod Dentofacial Orthop 157,29-34. DOI: 10.1016/j.ajodo.2019.01.023

Wiechmann, D., Bantleon, H.P., Melsen, B., Zachrisson, B., Hägg, U., Canal, P., Garcia, R., Barthelemi, S., Frapier, L., Grauer, D., Sander, C., Diedrich, P., Jacobs, C., Wehrbein, H., Hohoff, A., Helms, H.J., Schwestka-Polly, R. (2020). Incorrect measurements and misleading conclusions in the article "Comparison of the efficacy of tooth alignment among lingual and labial brackets: an in vitro study" Head Face Med 16,7. DOI: 10.1186/s13005-020-00221-7

Klinik für Mund-, Kiefer- und Gesichtschirurgie – 7720

Originalpublikationen

Gniesmer, S., Brehm, R., Hoffmann, A., de Cassan, D., Menzel, H., Hoheisel, A.L., Glasmacher, B., Willbold, E., Reifenrath, J., Ludwig, N., Zimmerer, R., Tavassol, F., Gellrich, N.C., Kampmann, A. (2020). Vascularization and biocompatibility of poly(epsilon-caprolactone) fiber mats for rotator cuff tear repair PLoS One 15,e0227563. DOI: 10.1371/journal.pone.0227563

Hensel, N., Brickwedde, H., Tsaknakis, K., Grages, A., Braunschweig, L., Lüders, K.A., Lorenz, H.M., Lippross, S., Walter, L.M., Tavassol, F., Lienenklaus, S., Neunaber, C., Claus, P., Hell, A.K. (2020). Altered bone development with impaired cartilage formation precedes neuromuscular symptoms in spinal muscular atrophy Hum Mol Genet 29,2662-2673. DOI: 10.1093/hmg/ddaa145

Janzen-Senn, I., Schuon, R.A., Tavassol, F., Lenarz, T., Paasche, G. (2020). Dimensions and position of the Eustachian tube in Humans PLoS One 15,e0232655. DOI: 10.1371/journal.pone.0232655

Jehn, P., Korn, P., Gellrich, N.C., Zeller, A.N., Neuhaus, M.T., Tavassol, F., Zimmerer, R., Krüskemper, G., Spalthoff, S. (2021). Fulfillment of patients' information needs during oral cancer treatment and its association with posttherapeutic quality of life Qual Life Res 30,169-180. DOI: 10.1007/s11136-020-02616-0

Jehn, P., Spalthoff, S., Korn, P., Stoetzer, M., Gercken, M., Gellrich, N.C., Rahlf, B. (2020). Oral health-related quality of life in tumour patients treated with patient-specific dental implants Int J Oral Maxillofac Surg 49,1067-1072. DOI: 10.1016/j.ijom.2020.01.011

- Jehn, P., Spalthoff, S., Korn, P., Zeller, A.N., Dittmann, J., Zimmerer, R., Tavassol, F., Gellrich, N.C. (2020). Patient-specific implant modification for alloplastic bridging of mandibular segmental defects in head and neck surgery *J Craniomaxillofac Surg* *48*,315-322. DOI: 10.1016/j.jcms.2020.01.018
- Miller, S., Neuhaus, M.T., Zimmerer, R., Tavassol, F., Gellrich, N.C., Ptok, M., Jungheim, M. (2020). Three-dimensional analysis of the velopharyngeal region in patients with cleft palate and healthy individuals *Surg Radiol Anat* *42*,1033-1042. DOI: 10.1007/s00276-020-02526-3
- Neuhaus, M.T., Zeller, A., Desch, L., Dhawan, A., Jehn, P., Gellrich, N., Zimmerer, R. (2021). Endoscopically Assisted Treatment of Condylar Base and Neck Fractures: A Single Institution Analysis of Outcomes and Complications. *J Maxillofac Oral Surg* *20*,665-673. DOI: 10.1007/s12663-020-01398-9
- Neuhaus, M.T., Zimmerer, R., Zeller, A.N., Jehn, P., Gellrich, N.C., Tavassol, F. (2021). Influence of Unilateral Cleft Lip Configuration on Long-Term Facial Averageness: A New Three-Dimensional Analysis Approach *Facial Plast Surg Aesthet Med* *23*,132-139. DOI: 10.1089/fpsam.2020.0154
- Reifenrath, J., Wellmann, M., Kempfert, M., Angrisani, N., Welke, B., Gniesmer, S., Kampmann, A., Menzel, H., Willbold, E. (2020). TGF-beta3 Loaded Electrospun Polycaprolactone Fibre Scaffolds for Rotator Cuff Tear Repair: An in Vivo Study in Rats *Int J Mol Sci* *21*,1046. DOI: 10.3390/ijms21031046
- Schiller, M., Pilette, M., Rahlf, B., von See, C., Gellrich, N.C. (2020). Management of pandemic or large-scale emergencies in Germany with a focus on the current and potential role of university schools of dentistry: Can it help in COVID-19 time? *Bull Natl Res Cent* *44*,174. DOI: 10.1186/s42269-020-00427-4
- Schorn, L., Lommen, J., Sproll, C., Krüskemper, G., Handschel, J., Nitschke, J., Prokein, B., Gellrich, N.C., Holtmann, H. (2020). Evaluation of patient specific care needs during treatment for head and neck cancer *Oral Oncol* *110*,104898. DOI: 10.1016/j.oraloncology.2020.104898
- Schorn, L., Rana, M., Madry, A., Ipaktchi, R., Möllmann, H., Gellrich, N.C., Rana, M. (2020). Does autofluorescence help detect recurrent squamous cell carcinoma? A prospective clinical study *Oral Surg Oral Med Oral Pathol Oral Radiol* *130*,258-263. DOI: 10.1016/j.oooo.2020.04.809
- Spalthoff, S., Jehn, P., Treptow, K., Zimmerer, R., Korn, P., Tavassol, F., Gellrich, N.C., Dittmann, J. (2020). Dependence of odontogenic abscess on meteorological parameters: truth or myth? *Clin Oral Investig* *24*,3619-3622. DOI: 10.1007/s00784-020-03236-1
- Stier, R., Tavassol, F., Dupke, C., Rüter, M., Jehn, P., Gellrich, N.C., Spalthoff, S. (2020). Retrospective analysis of 15 years of horse-related maxillofacial fracture data at a major German trauma center *Eur J Trauma Emerg Surg* DOI: 10.1007/s00068-020-01450-w
- Wagner, M.E.H., Kampmann, A., Schumann-Moor, K., Gellrich, N.C., Tavassol, F., Schmeltekop, F., Rücker, M., Lanzer, M., Gander, T., Essig, H., Schumann, P. (2021). Cell seeding accelerates the vascularization of tissue engineering constructs in hypertensive mice *Hypertens Res* *44*,23-35. DOI: 10.1038/s41440-020-0524-z
- Wagner, M.E.H., Rotsch, C., Hanus, S., Essig, H., Grunert, R., Gellrich, N.C., Lichtenstein, J. (2020). Feasibility of implants with superelastic behaviour for midface reconstruction *J Biomater Appl* *34*,1449-1457. DOI: 10.1177/0885328220911585
- Zeller, A.N., Neuhaus, M.T., Fresenborg, S., Zimmerer, R.M., Jehn, P., Spalthoff, S., Gellrich, N.C., Dittmann, J.A. (2021). Accurate and cost-effective mandibular biomodels: a standardized evaluation of 3D-Printing via fused layer deposition modeling on soluble support structures *J Stomatol Oral Maxillofac Surg* *122*,355-360. DOI: 10.1016/j.jormas.2020.09.018
- Zeller, A.N., Neuhaus, M.T., Gessler, N., Skade, S., Korn, P., Jehn, P., Gellrich, N.C., Zimmerer, R.M. (2021). Self-Centering Second-Generation Patient-specific Functionalized Implants for Deep Orbital Reconstruction *J Stomatol Oral Maxillofac Surg* *122*,372-380. DOI: 10.1016/j.jormas.2020.12.007
- Zeller, A.N., Neuhaus, M.T., Weissbach, L.V.M., Rana, M., Dhawan, A., Eckstein, F.M., Gellrich, N.C., Zimmerer, R.M. (2020). Patient-Specific Mandibular Reconstruction Plates Increase Accuracy and Long-Term Stability in Immediate Alloplastic Reconstruction of Segmental Mandibular Defects *J Maxillofac Oral Surg* *19*,609-615. DOI: 10.1007/s12663-019-01323-9
- Zeller, A.N., Thiem, D.G.E., Bartella, A.K., Seifert, L.B., Beiglboeck, F.M., Hoffmann, J., Ehrenfeld, M., Pabst, A. (2021). Training in oral and maxillofacial surgery in Germany - residents' satisfaction and future challenges. *J Craniomaxillofac Surg* *49*,415-421. DOI: 10.1016/j.jcms.2020.07.006

Übersichtsarbeiten

Gellrich, N.C., Spalthoff, S., Zimmerer, R., Jehn, P., Tavassol, F., Korn, P. (2020). Sekundäre Orbitarekonstruktion. *MKG-Chirurg* 13,165-175. DOI: 10.1007/s12285-020-00259-1

Promotionen

Friederichs, A. (2018). Auswirkungen der Präparationstechnik auf die periostale Mikrozirkulation nach autologer Knochenaugmentation im Tierexperiment Vergleich von zwei unterschiedlichen Methoden der Periostpräparation Dissertation, Medizinische Hochschule Hannover, 2019

Georg, P.J. (2019). Facial averageness as a measure for secondary cleft surgeries. Dissertation, Medizinische Hochschule Hannover, 2020

Korn, P.N. (2020). Die Bedeutung des Tumorstammzellmarkers CD133 bei der Induktion von Malignen Melanomen im xenotransplantierten Mausmodell. Dissertation, Medizinische Hochschule Hannover, 2020

Krause, J. (2019). Marginaler Knochenverlust an Implantaten mit Mikrogewinde nach vorangegangener autogener Augmentation : eine prospektive Studie. Dissertation, Medizinische Hochschule Hannover, 2020

Lutz, I. (2019). Einsatz und Evaluation einer computerassistierten Untersuchungsmethode zur Diagnostik und Analyse der medikamentenassoziierten Kiefernekrose. Dissertation, Medizinische Hochschule Hannover, 2020

Moysich, H.C. (2020). Orale Blutungsereignisse nach dentoalveolär-chirurgischen Eingriffen bei langzeitantikoagulierten Patienten über einen Beobachtungszeitraum von zehn Jahren. Dissertation, Medizinische Hochschule Hannover, 2020

Ochsenfeld, N. (2019). In vivo Beschleunigung der Vaskularisation von Tissue Engineering Konstrukten durch Inkubation von mesenchymalen Stammzellen und Osteoblasten in Matrigel Dissertation, Medizinische Hochschule Hannover, 2019

Schneider, F. (2019). Der Einfluss von stabilen Persönlichkeitsvariablen auf Krankheitsverarbeitung, Symptombelastung und Lebensqualität bei Patienten mit intraoralem Plattenepithelkarzinom - eine prospektive, klinische Studie Dissertation, Medizinische Hochschule Hannover, 2020

Spalthoff, S. (2020). Intraorbitale Volumenaugmentation in primärer und sekundärer Orbitarekonstruktion mit patientenspezifischen CAD/CAM-gefertigten Titanspacern. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Winterboer, J. (2020). Etablierung eines neuen Modells zur intravitalmikroskopischen Untersuchung von manifestierten Tumoren auf Basis der Rückenhautkammer der Maus Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Zeller, A. (2020). Weiterbildungssituation und Weiterbildungsperspektiven in der Mund-, Kiefer- und Gesichtschirurgie im deutschsprachigen Raum. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Zahnärztliche Prothetik und Biomedizinische Werkstoffkunde – 7710

Originalpublikationen

Abou-Ayash, S., von Maltzahn, N., Passia, N., Freitag-Wolf, S., Reissmann, D.R., Luthardt, R.G., Mundt, T., Raedel, M., Rammelsberg, P., Wolfart, S., Kern, M. (2020). Stabilizing mandibular complete dentures by a single midline implant-influence on quality of life: 2-year results from a randomized clinical trial comparing different loading protocols *Clin Oral Investig* 24,927-935. DOI: 10.1007/s00784-019-02969-y

Beyer, A., Dalton, M., Doll, K., Winkel, A., Stumpp, N.S., Stiesch, M. (2020). In Vitro Antibacterial Effectiveness of a Naturopathic Oral Care Product on Oral Pathogens *Oral Health Prev Dent* 18,625-632. DOI: 10.3290/j.ohpd.a44938

Breidenstein, B., Busemann, S., Stiesch, M., Greuling, A., Worpenberg, C. (2020). Influence of surface and subsurface properties on the bonding between yttria stabilized tetragonal zirconia polycrystals and a veneering ceramic. *J Adhes Sci Technol* 35,1764-1776. DOI: 10.1080/01694243.2020.1857962

- Bunk, D., Eisenburger, M., Häckl, S., Eberhard, J., Stiesch, M., Grischke, J. (2020). The effect of adjuvant oral irrigation on self-administered oral care in the management of peri-implant mucositis: A randomized controlled clinical trial. *Clin Oral Implants Res* *31*,946-958. DOI: 10.1111/clr.13638
- Desch, A., Freifrau von Maltzahn, N., Stumpp, N., Dalton, M., Yang, I., Stiesch, M. (2020). Biofilm formation on zirconia and titanium over time-An in vivo model study *Clin Oral Implants Res* *31*,865-880. DOI: 10.1111/clr.13632
- Finger, C., Stiesch, M., Eisenburger, M., Breidenstein, B., Busemann, S., Greuling, A. (2020). Effect of sandblasting on the surface roughness and residual stress of 3Y-TZP (zirconia). *SN Appl Sci* *2*,1700. DOI: 10.1007/s42452-020-03492-6
- Freifrau von Maltzahn, N., Bernhard, F., Kohorst, P. (2020). Fitting accuracy of ceramic veneered Co-Cr crowns produced by different manufacturing processes *J Adv Prosthodont* *12*,100-106. DOI: 10.4047/jap.2020.12.2.100
- Haufe, S., Kahl, K.G., Kerling, A., Protte, G., Bayerle, P., Stenner, H.T., Rolff, S., Sundermeier, T., Eigendorf, J., Kück, M., Hanke, A.A., Keller-Varady, K., Ensslen, R., Nachbar, L., Lauenstein, D., Böthig, D., Terkamp, C., Stiesch, M., Hilfiker-Kleiner, D., Haverich, A., Tegtbur, U. (2020). Employers With Metabolic Syndrome and Increased Depression/Anxiety Severity Profit Most From Structured Exercise Intervention for Work Ability and Quality of Life *Front Psychiatry* *11*,562. DOI: 10.3389/fpsyt.2020.00562
- Ingendoh-Tsakmakidis, A., Eberhard, J., Falk, C.S., Stiesch, M., Winkel, A. (2020). In Vitro Effects of Streptococcus oralis Biofilm on Peri-Implant Soft Tissue Cells *Cells* *9*,1226. DOI: 10.3390/cells9051226
- Kabir, L., Stiesch, M., Grischke, J. (2021). The effect of keratinized mucosa on the severity of peri-implant mucositis differs between periodontally healthy subjects and the general population: a cross-sectional study *Clin Oral Investig* *25*,1183-1193. DOI: 10.1007/s00784-020-03422-1
- Kern, M., Behrendt, C., Fritzer, E., Kohal, R.J., Luthardt, R.G., Maltzahn, N.F.V., Rädcl, M., Reissmann, D.R., Schwindling, F.S., Wolfart, S., Passia, N. (2021). 5-Year Randomized Multicenter Clinical Trial on Single Dental Implants Placed in the Midline of the Edentulous Mandible *Clin Oral Implants Res* *32*,212-221. DOI: 10.1111/clr.13692
- Memaran, N., Schwalba, M., Borchert-Mörlins, B., von der Born, J., Markefke, S., Bauer, E., von Wick, A., Epping, J., von Maltzahn, N., Heyn-Schmidt, I., Grams, L., Homeyer, D., Kerling, A., Stiesch, M., Tegtbur, U., Haverich, A., Melk, A. (2020). Gesundheit und Fitness von deutschen Schulkindern. *Monatsschr Kinderheilkd* *168*,597-607. DOI: 10.1007/s00112-020-00882-3
- Mikolaj, C., Branitzki-Heinemann, K., Ingendoh-Tsakmakidis, A., Stiesch, M., von Köckritz-Blickwede, M., Winkel, A. (2020). Neutrophils exhibit an individual response to different oral bacterial biofilms *J Oral Microbiol* *13*,1856565. DOI: 10.1080/20002297.2020.1856565
- Mikolaj, C., Kommerein, N., Ingendoh-Tsakmakidis, A., Winkel, A., Falk, C.S., Stiesch, M. (2020). Early host-microbe interaction in a peri-implant oral mucosa-biofilm model *Cell Microbiol* *22*,e13209. DOI: 10.1111/cmi.13209
- Rahim, M.I., Winkel, A., Lienenklaus, S., Stumpp, N.S., Szafranski, S.P., Kommerein, N., Willbold, E., Reifenrath, J., Mueller, P.P., Eisenburger, M., Stiesch, M. (2020). Non-Invasive Luciferase Imaging of Type I Interferon Induction in a Transgenic Mouse Model of Biomaterial Associated Bacterial Infections: Microbial Specificity and Inter-Bacterial Species Interactions *Microorganisms* *8*,1624. DOI: 10.3390/microorganisms8101624
- Schaeske, J., Fadeeva, E., Schlie-Wolter, S., Deiwick, A., Chichkov, B.N., Ingendoh-Tsakmakidis, A., Stiesch, M., Winkel, A. (2020). Cell Type-Specific Adhesion and Migration on Laser-Structured Opaque Surfaces *Int J Mol Sci* *21*,8442. DOI: 10.3390/ijms21228442
- Spintzyk, S., Geis-Gerstorfer, J., Bouraue, C., Keilig, L., Lohbauer, U., Brune, A., Greuling, A., Arnold, C., Rues, S., Adjiski, R., Sawada, T., Lümekemann, N., Stawarczyk, B., Ilie, N., Frankenberger, R., Dudek, M., Strickstroock, M., Begand, S. (2021). Biaxial flexural strength of zirconia: A round robin test with 12 laboratories. *Dent Mater* *37*,284-295. DOI: 10.1016/j.dental.2020.11.016
- Stenner, H.T., Eigendorf, J., Kerling, A., Kueck, M., Hanke, A.A., Boyen, J., Nelius, A.K., Melk, A., Boethig, D., Bara, C., Hilfiker, A., Berliner, D., Bauersachs, J., Hilfiker-Kleiner, D., Eberhard, J., Stiesch, M., Schippert, C., Haverich, A., Tegtbur, U., Haufe, S. (2020). Effects of six month personalized endurance training on work ability in middle-aged sedentary women: a secondary analysis of a randomized controlled trial. *J Occup Med Toxicol* *15*,8. DOI: 10.1186/s12995-020-00261-4
- Subh, L., Correa, W., Pinkvos, T.J., Behrens, P., Brandenburg, K., Gutschmann, T., Stiesch, M., Doll, K., Winkel, A. (2020). Synthetic anti-endotoxin peptides interfere with Gram-positive and Gram-negative bacteria, their adhesion and biofilm formation on titanium *J Appl Microbiol* *129*,1272-1286. DOI: 10.1111/jam.14701

Von Maltzahn, N.F., Stumpp, N.S., Stiesch, M. (2020). Antibacterial Effect of Cupral((R)) on Oral Biofilms - An In-Vitro Study Eur Endod J 5,40-45. DOI: 10.14744/eej.2019.83997

Winkel, A., Jaimes, Y., Melzer, C., Dillschneider, P., Hartwig, H., Stiesch, M., von der Ohe, J., Strauss, S., Vogt, P.M., Hamm, A., Burmeister, L., Roger, Y., Elger, K., Floerkemeier, T., Weissinger, E.M., Pogozykh, O., Müller, T., Selich, A., Rothe, M., Petri, S., Köhl, U., Hass, R., Hoffmann, A. (2020). Cell culture media notably influence properties of human mesenchymal stroma/stem-like cells from different tissues. Cytotherapy 22,653-668. DOI: 10.1016/j.jcyt.2020.07.005

Buchbeiträge, Monografien

Visser, H., Tschernitschek, H., Kramer, F.J. (2020). Fachkunde Strahlenschutz - Skript zum Aktualisierungskurs der Zahnärztekammer Niedersachsen (Hannover: ZKN).

Abstracts

Mikolai, C., Kommerein, N., Ingendoh-Tsakmakidis, A., Winkel, A., Falk, C.S., Stiesch, M. (2020). Interaction between an oral multispecies biofilm and peri-implant mucosa in a three-dimensional in vitro model. R2N Wintercamp, 20.-22.Januar 2020, Braunlage.

Stein, F., Streich, C., Jacobi, J., Rehbock, C., Grade, S., Kühnel, M., Migunov, V., Stiesch, M., Barcikowski, S. (2020). How can we make nano-silver accessible as an antimicrobial agent? An investigative study using AgAu alloy nanoparticles. WBC 2020, 11.-15.12.2020, Virtual Congress.

Szafranski, S.P. (2020). Microbial ecology of biofilms formed on dental implants in health and disease. RESIST Seminar 2020, Hannover.

Habilitationen

Pott, P.C. (2020). Untersuchungen und Verbesserung der Langzeitprognose von zahnfarbenen festsitzenden Restaurationen. Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Promotionen

Breitenbücher, N. (2019). In-vitro-Untersuchungen zur Bruchfestigkeit von Table Tops, Onlays und Kronen aus einer zirkoniumdioxidverstärkten Lithiumsilikatkeramik. Dissertation, Medizinische Hochschule Hannover, 2020

Dreyer, H.B. (2019). Epidemiologie und Risikofaktoren der Periimplantitis : Eine systematische Übersichtsarbeit und Meta-Analyse. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Mikolai, C. (2019). Interaktion von kommensalen und pathogenen Biofilmen mit dem Wirt im Zusammenhang mit der Entstehung periimplantärer Infektionen. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Schaeske, J. (2019). Eine systematische Analyse der Zytokompatibilität innovativer Implantatmaterialien Dissertation, Medizinische Hochschule Hannover, 2020

Zorn, A.S. (2019). Entwicklung und externe Validierung prognostischer Modelle zur Voraussage der Negativ- bzw. Positivwahrnehmung der studentischen Bewertung der Lehre im Phantomkurs des Zahnmedizinstudiums. Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Zahnerhaltung, Parodontologie und Präventive Zahnheilkunde – 7740

Originalpublikationen

Adam, K., Volk, J., Bakopoulou, A., Gousopoulou, E., Staufenbiel, I., Günay, H., Geurtsen, W. (2020). Cells from Granulation tissue of intra-bony periodontal defects reveal neurogenic and angiogenic Differentiation potential and express the embryonic transcription factors NANOG, OCT4 and SOX2. DZZ international 3,82-84. DOI: 10.3238/dzz-int.2020.0082-0094

Baier, C., Albrecht, U.V., Ebadi, E., Vonberg, R.P., Schilke, R. (2020). Knowledge about hand hygiene in the Generation Z: A questionnaire-based survey among dental students, trainee nurses and medical technical assistants in training. Am J Infect Control 48,708-712. DOI: 10.1016/j.ajic.2020.02.002

Günay, H., Meyer-Wübbold, K. (2020). Hannoversches Präventionskonzept zur Verbesserung der (eigenverantwortlichen) häuslichen Mundhygiene. DZZ 75,24-32. DOI: 10.3238/dzz.2020.0203-0211

Günay, H., Meyer-Wübbold, K. (2020). Hanoverian prevention concept to improve (self-responsible) home-based oral hygiene. *DZZ international* 3,65-72. DOI: 10.3238/dzz-int.2020.0065-0072

Jacker-Guhr, S. (2020). Which "band-aid" is appropriate for the dentin wound of permanent teeth? *DZZ international* 2,30-32. DOI: 10.3238/dzz-int.2020.0030-0032

Krämer, S., Lucas, J., Gamboa, F., Penarrocha Diago, M., Penarrocha Oltra, D., Guzman-Letelier, M., Paul, S., Molina, G., Sepulveda, L., Araya, I., Soto, R., Arriagada, C., Lucky, A.W., Mellerio, J.E., Cornwall, R., Alsayer, F., Schilke, R., Antal, M.A., Castrillon, F., Paredes, C., Serrano, M.C., Clark, V. (2020). Clinical practice guidelines: Oral health care for children and adults living with epidermolysis bullosa *Spec Care Dentist* 40 Suppl 1,3-81. DOI: 10.1111/scd.12511

Lührs, A.K., Jacker-Guhr, S., Günay, H., Herrmann, P. (2020). Composite restorations placed in non-cariou cervical lesions-Which cavity preparation is clinically reliable? *Clin Exp Dent Res* 6,558-567. DOI: 10.1002/cre2.310

Meyer-Wübbold, K., Günay, H., Ebert, K. (2020). Effektivität einer elektrischen "Waschzahnbürste" auf die orale Plaquekontrolle: eine Pilotstudie. *DZZ* 75,20-27. DOI: 10.3238/dzz.2020.0020-0027

Meyer-Wübbold, K., Hellwig, E., Fischer, P., Geurtsen, W., Günay, H. (2020). Zahnärztliche Diagnostik und Therapie schwangerer Patientinnen. *ZM* 110,48-56.

Perduns, R., Volk, J., Plum, M., Jochums, A., Gutzki, F., Kaefer, V., Geurtsen, W. (2021). Camphorquinone alters the expression of extracellular proteases in a 3D co-culture model of the oral mucosa *Dent Mater* 37,236-248. DOI: 10.1016/j.dental.2020.11.005

Pfeffer, S., Jacker-Guhr, S., Geurtsen, W., Pfeffer, T.A., Lührs, A.K. (2020). Microtensile bond strength of luting cements to a 3D printable Composite - an in vitro study. *DZZ international* 2,73-81. DOI: 10.3238/dzz-int.2020.0229-0239

Übersichtsarbeiten

Lührs, A.K., Herrmann, P. (2020). Bioaktive Restaurationsmaterialien – Wunsch oder Wirklichkeit? *Quintessenz* 71,728-741.

Promotionen

Pfeffer, T.A. (2020). Assoziation zahnmedizinischer und neurologischer Parameter bei Patienten mit akutem ischämischen Schlaganfall - eine prospektiv klinische und mikrobiologische Studie Dissertation, Medizinische Hochschule Hannover, 2020

Popal, M. (2019). Das zytotoxische und genotoxische Potential der Typ-1-Fotoinitiatoren BAPO und TPO bei humanen oralen Keratinozyten und V79-Fibroblasten Kumulative, Dissertation Medizinische Hochschule Hannover, 2020

Robben, P.H.R. (2019). Die Rolle von Ethylendiamintetraessigsäure in der endodontischen Desinfektion und die Erfolgsrate hochkomplexer Behandlungen (Wurzelkanalbehandlung) im Studentenkurs eine kontrollierte, retrospektive Auswertung Dissertation, Medizinische Hochschule Hannover, 2020

Kliniken/Institute der Sektion III ohne Zentrumszuordnung

Klinik für Anästhesiologie und Intensivmedizin – 8050

Originalpublikationen

Beck, C.E., Chandrakumar, T., Sümpelmann, R., Nickel, K., Keil, O., Heiderich, S., Boethig, D., Witt, L., Dennhardt, N. (2020). Ultrasound assessment of gastric emptying time after intake of clear fluids in children scheduled for general anesthesia-A prospective observational study *Paediatr Anaesth* 30,1384-1389. DOI: 10.1111/pan.14029

Beck, C.E., Rudolph, D., Mahn, C., Etspüler, A., Korf, M., Lüthke, M., Schindler, E., Päkert, S., Trapp, A., Megens, J.H.A.M., Oppitz, F., Badelt, G., Röher, K., Genähr, A., Fink, G., Müller-Lobeck, L., Becke-Jakob, K., Wermelt, J.Z., Boethig, D., Eich, C., Sümpelmann, R. (2020). Impact of clear fluid fasting on pulmonary aspiration in children undergoing general anesthesia: Results of the German prospective multicenter observational (NiKS) study *Paediatr Anaesth* 30,892-899. DOI: 10.1111/pan.13948

- Beck, C.E., Sümpelmann, R., Nickel, K., Keil, O., Kuebler, J.F., Boethig, D., Witt, L., Dennhardt, N. (2020). Systemic and regional cerebral perfusion in small infants undergoing minor lower abdominal surgery under awake caudal anaesthesia: An observational study *Eur J Anaesthesiol* *37*,696-700. DOI: 10.1097/EJA.0000000000001150
- Dennhardt, N., Elfgen-Schiffner, F.D., Keil, O., Beck, C.E., Heiderich, S., Sümpelmann, R., Nickel, K. (2020). Effect of etomidate on systemic and regional cerebral perfusion in neonates and infants with congenital heart disease: A prospective observational study *Paediatr Anaesth* *30*,984-989. DOI: 10.1111/pan.13977
- Dennhardt, N., Sümpelmann, R., Horke, A., Keil, O., Nickel, K., Heiderich, S., Boethig, D., Beck, C.E. (2020). Prevention of postoperative bleeding after complex pediatric cardiac surgery by early administration of fibrinogen, prothrombin complex and platelets: a prospective observational study. *BMC Anesthesiol* *20*,302. DOI: 10.1186/s12871-020-01217-1
- Derlin, K., Hellms, S., Gutberlet, M., Peperhove, M., Jang, M.S., Greite, R., Hartung, D., Derlin, T., Fegbeutel, C., Tudorache, I., Jüttner, B., Wiese, B., Lichtinghagen, R., Haller, H., Haverich, A., Wacker, F., Warnecke, G., Gueler, F. (2020). Application of MR diffusion imaging for non-invasive assessment of acute kidney injury after lung transplantation *Medicine (Baltimore)* *99*,e22445. DOI: 10.1097/MD.00000000000022445
- Esmailzadeh, M., Hong, B., Polemikos, M., Al-Afif, S., Hermann, E.J., Scheinichen, D., von Kaisenberg, C., Hillemanns, P., Krauss, J.K. (2020). Spinal emergency surgery during pregnancy: contemporary strategies and outcome. *World Neurosurg* *139*,e421-e427. DOI: 10.1016/j.wneu.2020.04.019
- Esmailzadeh, M., Uksul, N., Hong, B., von Kaisenberg, C., Scheinichen, D., Lang, J.M., Hermann, E.J., Hillemanns, P., Krauss, J.K. (2020). Intracranial emergencies during pregnancy requiring urgent neurosurgical treatment. *Clin Neurol Neurosurg* *195*,105905. DOI: 10.1016/j.clineuro.2020.105905
- Fleissner, F., Frank, P., Haverich, A., Ismail, I. (2020). Echocardiographic guided, transatrial closure of a patent foramen ovale *J Cardiothorac Surg* *15*,255. DOI: 10.1186/s13019-020-01289-7
- Fleissner, F., Timm, M.E., Lang, C.P., Lenarz, T., Kühn, C., Jaeger, D.B. (2020). Tracheal Transection-A Novel Airway Management *Thorac Cardiovasc Surg Rep* *9*,e24-e28. DOI: 10.1055/s-0040-1710586
- Flentje, M., Eismann, H., Holtje, M., Hagemann, V., Brodowski, L., von Kaisenberg, C. (2020). Transfer of an interprofessional emergency caesarean section training program: using questionnaire combined with outcome data of newborn. *Arch Gynecol Obstet* *303*,585-593. DOI: 10.1007/s00404-020-05617-z
- Flentje, M., Eismann, H., Sieg, L., Hagemann, V., Friedrich, L. (2020). Impact of Simulator-Based Crisis Resource Management Training on Collective Orientation in Anaesthesia: Pre-Post Survey Study With Interprofessional Anaesthesia Teams *J Med Educ Curric Dev* *7*,2382120520931773. DOI: 10.1177/2382120520931773
- Flentje, M., Fiedel, H., Eismann, H. (2020). Narkose im Rettungsdienst – mehr als nur eine erfolgreiche Intubation. *retten!* *9*,190-198. DOI: 10.1055/a-0962-1802
- Flentje, M., Friedrich, L., Eismann, H., Koppert, W., Ruschulte, H. (2020). Expectations, training and evaluation of intensive care staff to an interprofessional simulation course in Germany - Development of a relevant training concept *GMS J Med Educ* *37*,Doc9. DOI: 10.3205/zma001302
- Framme, C., Gottschling, J., Kuiper, T., Lobbes, W., Palmaers, T., Brockmann, D., Lagreze, W.A., Hufendiek, K. (2020). Kostenträgerrechnungen von strabologischen Operationen an einer Universitäts-Augenklinik *Ophthalmologe* *117*,1006-1014. DOI: 10.1007/s00347-020-01227-x
- Godmann, L., Bollmann, M., Korb-Pap, A., König, U., Sherwood, J., Beckmann, D., Mühlberg, K., Echtermeyer, F., Whiteford, J., De Rossi, G., Pap, T., Bertrand, J. (2020). Antibody-mediated inhibition of syndecan-4 dimerisation reduces interleukin (IL)-1 receptor trafficking and signalling *Ann Rheum Dis* *79*,481-489. DOI: 10.1136/annrheumdis-2019-216847
- Heiderich, S., Dennhardt, N., Hartmann, H., Kluger, G.J., Sümpelmann, R., Herberhold, T. (2020). Stability of 0.5% Glucose-Containing Balanced Electrolyte Solutions for Patients on Ketogenic Diets: A Laboratory Study *Neuropediatrics* *51*,397-400. DOI: 10.1055/s-0040-1715634
- Kamp, J.C., von Kaisenberg, C., Greve, S., Winter, L., Park, D.H., Fuge, J., Kühn, C., Hoepfer, M.M., Olsson, K.M. (2021). Pregnancy in pulmonary arterial hypertension: Midterm outcomes of mothers and offspring *J Heart Lung Transplant* *40*,229-233. DOI: 10.1016/j.healun.2020.12.002

Peñuelas, O., Muriel, A., Abaira, V., Frutos-Vivar, F., Mancebo, J., Raymondos, K., Du, B., Thille, A.W., Rios, F., González, M., Del-Sorbo, L., Ferguson, N.D., Del Carmen Marin, M., Pinheiro, B.V., Soares, M.A., Nin, N., Maggiore, S.M., Bersten, A., Amin, P., Cakar, N., Suh, G.Y., Abroug, F., Jibaja, M., Matamis, D., Zeggwagh, A.A., Sutherasan, Y., Anzueto, A., Esteban, A. (2020). Inter-country variability over time in the mortality of mechanically ventilated patients *Intensive Care Med* *46*,444-453. DOI: 10.1007/s00134-019-05867-9

Rakhit, S., Wang, L., Lindsell, C.J., Hosay, M.A., Stewart, J.W., Owen, G.D., Frutos-Vivar, F., Penuelas, O., Esteban, A., Anzueto, A.R., Raymondos, K., Rios, F., Thille, A.W., Gonzalez, M., Du, B., Maggiore, S.M., Matamis, D., Abroug, F., Amin, P., Zeggwagh, A.A., Ely, E.W., Vasilevskis, E.E., Patel, M.B. (2020). Multicenter International Cohort Validation of a Modified Sequential Organ Failure Assessment Score Using the Richmond Agitation-sedation Scale *Ann Surg* DOI: 10.1097/SLA.0000000000004484

Röttger, M., Hertel, H., Kaukemüller, L., Brodowski, L., Flentje, M., Hillemanns, P., Klapdor, R. (2020). Sentinel lymph node biopsy in vulvar cancer: status, level of knowledge, and counseling in outpatient setting. *Arch Gynecol Obstet* *302*,1001-1007. DOI: 10.1007/s00404-020-05701-4

Leitlinien von Fachgesellschaften

Rüffert, H., Bastian, B., Bendixen, D., Girard, T., Heiderich, S., Hellblom, A., Hopkins, P.M., Johannsen, S., Snoeck, M.M., Urwyler, A., Glahn, K.P.E., European Malignant Hyperthermia Group. (2021). Consensus guidelines on perioperative management of malignant hyperthermia suspected or susceptible patients from the European Malignant Hyperthermia Group. *Br J Anaesth* *126*,120-130. DOI: 10.1016/j.bja.2020.09.029

Übersichtsarbeiten

Sümpelmann, R., Beck, C., Dennhardt, N. (2020). Moderne Narkosekonzepte in der Kinderanästhesie. *Monatsschr Kinderheilkd* *168*,1099-1107. DOI: 10.1007/s00112-020-01039-y

Sümpelmann, R., Zander, R., Witt, L. (2020). Perioperative Infusionstherapie bei Kindern *Anesthesiol Intensivmed Notfallmed Schmerzther* *55*,324-333. DOI: 10.1055/a-1068-8566

Letter

Mommert, S., Schaper, J.T., Schaper-Gerhardt, K., Gutzmer, R., Werfel, T. (2021). Histamine down-regulates the FCER1 alpha-chain expression in human IL-4-activated M2 macrophages *Allergy* *76*,1250-1254. DOI: 10.1111/all.14576

Buchbeiträge, Monografien

Schiller, B., Eismann, H., Keil, O. (2020). SOAP-M und SBAR: Konzept zur Verbesserung der Patientensicherheit im interprofessionellen Team. In: *Jahrbuch Intensivmedizin 2020*, Böttiger B.W., eds. (Lengerich: Pabst Science Publishers) pp. 279-288

sonstiges

Bastian, B., Heiderich, S., Schuster, F., Johannsen, S., Klingler, W., Rüffert, H. (2020). Kommentar zur Leitlinie der European Malignant Hyperthermia Group zur Verfügbarkeit von Dantrolen für die Behandlung der Malignen Hyperthermie. *Anaesthesist* *69*,751-752. DOI: 10.1007/s00101-020-00839-x

Heiderich, S., Bastian, B., Johannsen, S., Klingler, W., Rüffert, H., Schuster, F. (2021). Konsensus-Leitlinie der Europäischen Malignen Hyperthermie Gruppe zum perioperativen Management von Patienten mit vermuteter oder nachgewiesener Veranlagung zur malignen Hyperthermie. *Anaesthesist* *70*,155-157. DOI: 10.1007/s00101-020-00893-5

Habilitationen

Eberhardt, M. (2020). Untersuchungen zur Aktivierung von TRP-Kanälen durch endogene Mediatoren und Analgetikametaboliten. *Kumulative Habilitationsschrift, Medizinische Hochschule Hannover, 2020*

Palmaers, T. (2020). Zur Modulation der Hämodynamik bei kardiopulmonaler Reanimation. *Kumulative Habilitationsschrift, Medizinische Hochschule Hannover, 2020*

Stüber, T. (2020). Untersuchungen zur Toxizität TRP-Kanal vermittelter analgetischer Strategien sowie tertiärer und quartärer Lokalanästhetika. *Habilitationsschrift, Medizinische Hochschule Hannover, 2020*

Promotionen

Büßcker, L. (2019). Metamizol als Risikofaktor für postoperatives akutes Nierenversagen bei Intensivpatienten: Eine retrospektive Analyse *Dissertation, Medizinische Hochschule Hannover, 2020*

Diegmann, O. (2020). Serummarker und Risikofaktoren des postoperativen Delirs bei großen abdominalchirurgischen Eingriffen im 7-Tage Follow-up. *Dissertation, Medizinische Hochschule Hannover, 2020*

Hadamitzky, C. (2019). Das Lidocainderivat QX-314 permeiert die humane Isoform von TRPV1 und vermittelt eine Inhibition spannungsabhängiger Natriumkanäle Dissertation, Medizinische Hochschule Hannover, 2020

Harms, E. (2019). Die Rolle eines schlecht konservierten extrazellulären Motivs für die Protonen-induzierte Inhibition spannungsabhängiger Natriumkanäle Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Hoppe, C.G. (2019). Quantitative Evaluation der Effizienz verschiedener Komponenten von Oberflächenanästhetika eine prospektiv randomisierte, doppelblinde, placebokontrollierte Studie. Dissertation, Medizinische Hochschule Hannover, 2020

Poffers, M. (2020). Regulation der Adhäsion, Transmigration und Chemotaxis von neutrophilen Granulozyten der Maus in vitro durch die Natriumkanal- α -Untereinheit Nav1.3 Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Schenk, S.A. (2019). Active metabolites of dipyrone induce a redox-dependent activation of the ion channels TRPA1 and TRPV1 Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Wagner, C. (2017). Interleukin-6 verursacht bei perioperativem Stress akutes Wachstum instabiler atherosklerotischer Plaques in Apolipoprotein-E-defizienten Mäusen Mechanismen und Therapieansätze. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Klinik für Rehabilitationsmedizin – 8300

Originalpublikationen

Andelic, N., Lu, J., Gutenbrunner, C., Nugraha, B., Gormley, M., Soberg, H.L., Sveen, U., Anke, A., Kirkevold, M., Roe, C. (2020). Description of health-related rehabilitation service provision and delivery in randomized controlled trials: A topic review. *J Rehabil Med* 52, DOI: 10.2340/16501977-2726

Baier, C., Ebadi, E., Mett, T.R., Stoll, M., Küther, G., Vogt, P.M., Bange, F.C. (2020). Epidemiologic and Molecular Investigation of a MRSA Outbreak Caused by a Contaminated Bath tub for Carbon Dioxide Hydrotherapy and Review of the Literature. *Can J Infect Dis Med Microbiol* 2020,1613903. DOI: 10.1155/2020/1613903

Bickenbach, J., Batistella, L., Gutenbrunner, C., Middleton, J., Post, M.W., InSCI, Stucki, G. (2020). The International Spinal Cord Injury Survey: The Way Forward. *Arch Phys Med Rehabil* 101,2227-2232. DOI: 10.1016/j.apmr.2020.06.011

Bökel, A., Dierks, M.L., Gutenbrunner, C., Weidner, N., Geng, V., Kalke, Y.B., Liebscher, T., Abel, F.R., Sturm, C. (2020). Perceived environmental barriers for people with spinal cord injury in Germany and their influence on quality of life *J Rehabil Med* 52, jrm00090. DOI: 10.2340/16501977-2717

Bökel, A., Egen, C., Gutenbrunner, C., Weidner, N., Moosburger, J., Abel, F.R., Rupp, R., Kalke, Y.B., Liebscher, T., Kurze, I., Sauer, M., Geng, V., Sturm, C. (2020). Querschnittlähmung in Deutschland - eine Befragung zur Lebens- und Versorgungssituation von Menschen mit Querschnittlähmung. *Rehabilitation (Stuttg)* 59,205-213. DOI: 10.1055/a-1071-5935

Bökel, A., Nowik, D., Sturm, C., Briest, J. (2021). Gefühle und Gedanken von Erwerbsminderungsberenteten zur Rückkehr ins Erwerbsleben. *Phys Med Rehab Kuror* 31,110-117. DOI: 10.1055/a-1315-0558

Ehrmann, C., Reinhardt, J.D., Joseph, C., Hasnan, N., Perrouin-Verbe, B., Tederko, P., Zampolini, M., InSCI, Stucki, G. (2020). Describing Functioning in People Living With Spinal Cord Injury Across 22 Countries: A Graphical Modeling Approach. *Arch Phys Med Rehabil* 101,2112-2143. DOI: 10.1016/j.apmr.2020.09.374

Fekete, C., Brach, M., Ehrmann, C., Post, M.W.M., InSCI, Stucki, G. (2020). Cohort Profile of the International Spinal Cord Injury Community Survey Implemented in 22 Countries. *Arch Phys Med Rehabil* 101,2103-2111. DOI: 10.1016/j.apmr.2020.01.022

Ghashang, S.K., Raha, S., Hamdan, I., Gutenbrunner, C., Nugraha, B. (2020). A prospective controlled study on Ramadan fasting in the healthy young males in summer in Germany: effect on cytokines. *J Complement Integr Med* DOI: 10.1515/jcim-2019-0209

Gutenbrunner, C., Best, N., Glaesener, J.J., Lange, U., Lemhöfer, C., Lichti, G., Liebl, M.E., Reißhauer, A., Schwarzkopf, S., Steinmetz, A., Sturm, C., Weigl, M., Winkelmann, A., Krischak, G. (2020). Warum der rehabilitativen Versorgung auch und gerade während der COVID-

19 Pandemie besondere Beachtung geschenkt werden muss: Ein Statement der Deutschen Gesellschaft für Physikalische und Rehabilitative Medizin (DGPRM). *Phys Med Rehab Kuror* 30,283-286. DOI: 10.1055/a-1207-0766

Gutenbrunner, C., Egen, C., Glaesener, J.J., Lange, U., Liebl, M.E., Reißhauer, A., Schwarzkopf, S., Steinmetz, A., Lemhöfer, C., Sturm, C., Weigl, M., Best, N., Krischak, G. (2021).Notwendigkeit der Verankerung der Physikalischen und Rehabilitativen Medizin an Universitäten – ein Positionspapier der Deutschen Gesellschaft für Physikalische und Rehabilitative Medizin (DGPRM). *Phys Med Rehab Kuror* 31,10-19. DOI: 10.1055/a-1266-7381

Gutenbrunner, C., Glaesener, J.J., Reißhauer, A., Schwarzkopf, S., Sturm, C. (2020).Empfehlungen der DGPRM zu Struktur und Ausstattung von Akutkrankenhäusern bezüglich Physikalisch-medizinischer/rehabilitativer Maßnahmen in Intensivmedizin und Intermediate Care. *Phys Med Rehab Kuror* 30,237-240. DOI: 10.1055/a-1126-4645

Gutenbrunner, C., Nugraha, B. (2020).Decision-Making in Evidence-Based Practice in Rehabilitation Medicine: Proposing a Fourth Factor. *Am J Phys Med Rehabil* 99,436-440. DOI: 10.1097/PHM.0000000000001394

Gutenbrunner, C., Stokes, E.K., Dreinhöfer, K., Monsbakken, J., Clarke, S., Cote, P., Urseau, I., Constantine, D., Tardif, C., Balakrishna, V., Nugraha, B. (2020).Why Rehabilitation must have priority during and after the COVID-19-pandemic: A position statement of the Global Rehabilitation Alliance. *J Rehabil Med* 52,jrm00081. DOI: 10.2340/16501977-2713

Heck, J., Ranker, A., Wranke, A., Kano, L., Macke, C., Rademacher, J., Stichtenoth, D.O., Krause, O. (2021).Die interdisziplinäre alterstrau-matologische Visite : Empfehlungen für den Klinikalltag Unfallchirurg 124,138-145. DOI: 10.1007/s00113-020-00833-3

Küther, G. (2020).Physikalische Therapie bei systemischer Sklerose (Sklerodermie). *Arthritis + Rheuma* 40,15-19. DOI: 10.1055/a-1075-6854

Liebl, M.E., Gutenbrunner, C., Glaesener, J.J., Schwarzkopf, S., Best, N., Lichti, G., Kraft, E., Krischak, G., Reißhauer, A. (2020).Frühe Rehabilitation bei COVID-19 – Best Practice Empfehlungen für die frühe Rehabilitation von Patient/innen mit COVID-19. *Phys Med Rehab Kuror* 30,129-134. DOI: 10.1055/a-1162-4919

Martini, L., Maus, U., Bökel, A., Geng, V., Kalke, Y.B., Liebscher, T., Weidner, N., Hoffmann, F. (2020).Utilization of Outpatient Physical and Occupational Therapy in People With Spinal Cord Injury in Germany: Results of the German Spinal Cord Injury Survey. *Am J Phys Med Rehabil* 99,532-539. DOI: 10.1097/PHM.0000000000001366

Mehl, A., Brauer, D., Didwizus, A., Gelin-Kröz, B., Pranga, D., Zerm, R., Gutenbrunner, C., Reif, M., Kröz, M. (2021).The Anthroposophic Art Therapy Assessment Paint (AART-ASSESS-P): A peer-report instrument to assess patients' pictorial expression during Anthroposophic Painting Therapy. *Explore (NY)* 17,541-548. DOI: 10.1016/j.explore.2020.07.007

Mehl, A., Reif, M., Zerm, R., Pranga, D., Friemel, D., Berger, B., Brinkhaus, B., Gutenbrunner, C., Büssing, A., Kröz, M. (2020).Impact of a Multimodal and Combination Therapy on Self-Regulation and Internal Coherence in German Breast Cancer Survivors With Chronic Cancer-Related Fatigue: A Mixed-Method Comprehensive Cohort Design Study. *Integr Cancer Ther* 19,DOI: 10.1177/1534735420935618

Negrini, S., Meyer, T., Arienti, C., Kiekens, C., Pollock, A., Selb, M., Stucki, G., 3rd Cochrane Rehabilitation Methodology Meeting participants. (2020).The 3rd Cochrane Rehabilitation Methodology Meeting: "Rehabilitation definition for scientific research purposes" *Eur J Phys Rehabil Med* 56,658-660. DOI: 10.23736/S1973-9087.20.06574-0

Nugraha, B., Anwar, S.L., Gutenbrunner, C., Korallus, C. (2020).Polymorphisms of brain-derived neurotrophic factor genes are associated with anxiety and body mass index in fibromyalgia syndrome patients. *BMC Res Notes* 13,402. DOI: 10.1186/s13104-020-05226-8

Nugraha, B., Gutenbrunner, C. (2021).Contribution of the scientific field of Physical and Rehabilitation Medicine to improvements in health-related rehabilitation at all levels of the healthcare system. *J Rehabil Med* 53,jrm00155. DOI: 10.2340/16501977-2773

Nugraha, B., Riat, A., Ghashang, S.K., Eljurnazi, L., Gutenbrunner, C. (2020).A Prospective Clinical Trial of Prolonged Fasting in Healthy Young Males and Females-Effect on Fatigue, Sleepiness, Mood and Body Composition. *Nutrients* 12,2281. DOI: 10.3390/nu12082281

Nugraha, B., Tani, K., Gutenbrunner, C. (2020).Rehabilitation Service Assessment and Workforce Capacity Building in Albania-A Civil Society Approach. *Int J Environ Res Public Health* 17,DOI: 10.3390/ijerph17197300

Nugraha, B., Wahyuni, L.K., Laswati, H., Kusumastuti, P., Tulaar, A.B., Gutenbrunner, C. (2020).COVID-19 pandemic in Indonesia: Situation and challenges of rehabilitation medicine in Indonesia. *Acta Med Indones* 52,299-305.

Örgel, M., Ranker, A., Harb, A., Krettek, C., Aschoff, H.H. (2021). Transkutane osseointegrierte Prothesensysteme (TOPS) nach Majoramputation der unteren Extremität : Eine retrospektive 3-Jahres-Analyse. *Orthopade* 50,4-13. DOI: 10.1007/s00132-020-04031-2

Pacheco Barzallo, D., Gross-Hemmi, M., Bickenbach, J., Juocevicus, A., Popa, D., Wahyuni, L.K., InSCI, Strom, V. (2020). Quality of Life and the Health System: A 22-Country Comparison of the Situation of People With Spinal Cord Injury. *Arch Phys Med Rehabil* 101,2167-2176. DOI: 10.1016/j.apmr.2020.04.030

Post, M.W., Reinhardt, J.D., Avellanet, M., Escorpizo, R., Engkasan, J.P., Schwegler, U., InSCI, Leiufrud, A.S. (2020). Employment Among People With Spinal Cord Injury in 22 Countries Across the World: Results From the International Spinal Cord Injury Community Survey. *Arch Phys Med Rehabil* 101,2157-2166. DOI: 10.1016/j.apmr.2020.05.027

Ranker, A., Husemeyer, O., Cabeza-Boeddinghaus, N., Mayer-Wagner, S., Crispin, A., Weigl, M.B. (2020). Microcurrent therapy in the treatment of knee osteoarthritis: could it be more than a placebo effect? A randomized controlled trial. *Eur J Phys Rehabil Med* 56,459-468. DOI: 10.23736/S1973-9087.20.05921-3

Ranker, A., Lemhöfer, C., Lehmann, J., Liebl, M. (2020). Übersicht der Heilmittel-Richtlinie einschließlich des Heilmittelkatalogs – unter besonderer Berücksichtigung der Änderungen (gültig ab 01.01.2021). *Phys Med Rehab Kuror* 30,388-400. DOI: 10.1055/a-1231-1104

Ranker, A., Örgel, M., Beck, J.P., Krettek, C., Aschoff, H.H. (2020). Transkutane osseointegrierte Prothesensysteme (TOPS) zur Versorgung Oberschenkelamputierter. *Rehabilitation (Stuttg)* 59,357-365. DOI: 10.1055/a-1223-3205

Ranker, A.H., Marquardt, J., Ranker, A., Schöttker-Königer, T. (2020). Die Übersetzung und kulturelle Adaptation des Locomotor Capabilities Index-5 (LCI-5) ins Deutsche. *physioscience* 16,149-157. DOI: 10.1055/a-1103-1086

Reinhardt, J.D., Middleton, J., Bökel, A., Kovindha, A., Kyriakides, A., Hajjioui, A., Kouda, K., InSCI, Kujawa, J. (2020). Environmental Barriers Experienced by People With Spinal Cord Injury Across 22 Countries: Results From a Cross-Sectional Survey. *Arch Phys Med Rehabil* 101,2144-2156. DOI: 10.1016/j.apmr.2020.04.027

Sire, A., Poudel, M., Agostini, F., Freitas, M., Ranker, A., Rosselin, C., Sobotová, K., Frontera, W., Gimigliano, F. (2020). Impact of the COVID-19 pandemic on European residency training programs in Physical and Rehabilitation Medicine: The point of -view of the International Society Of Physical and Rehabilitation Medicine World Youth Forum task force. *J Int Soc Phys Rehabil Med* 3,131-136. DOI: 10.4103/jisprm.jisprm_22_20

Stucki, G., Bickenbach, J., Kiekens, C., Negrini, S., Stam, H.J., The European Academy of Rehabilitation Medicine. (2020). Reflections of the European Academy of Rehabilitation Medicine on the first global estimates of the need for rehabilitation and the implications for physical and rehabilitation medicine *J Rehabil Med* 52, DOI: 10.2340/16501977-2784

Sturm, C., Bökel, A., Korallus, C., Geng, V., Kalke, Y.B., Abel, R., Kurze, I., Gutenbrunner, C.M. (2020). Promoting factors and barriers to participation in working life for people with spinal cord injury. *J Occup Med Toxicol* 15,37. DOI: 10.1186/s12995-020-00288-7

Sturm, C., Bökel, A., Korallus, C., Geng, V., Kalke, Y.B., Abel, R., Kurze, I., Gutenbrunner, C.M. (2020). Promoting factors and barriers to participation in working life for people with spinal cord injury. *J Occup Med Toxicol* 15,37. DOI: 10.1186/s12995-020-00288-7

Sturm, C., Glaesener, J.J., Korallus, C., Reißhauer, A., Schwarzkopf, S., Gutenbrunner, C. (2020). Hintergrundtext zu Empfehlungen der DGPRM zu Struktur und Ausstattung von Akutkrankenhäusern bezüglich Physikalisch-medizinischer/Rehabilitativer Maßnahmen in Intensivmedizin und Intermediate Care. *Phys Med Rehab Kuror* 30,241-247. DOI: 10.1055/a-1126-4676

Subadi, I., Nugraha, B., Suwandi, A., Sulastri, N., Susilo, I. (2020). Pain reduction after dry and wet cupping therapies: Roles of alpha 2 beta 1 integrin and mu-opioid receptor in animal model. *Int Journal of Psychosoc Rehabil* 24,4030-4035. DOI: 10.37200/IJPR/V24I2/PR200722

Zhang, L., Jiang, L., Cheng, K., Fu, J.H., Jian-Wu, S., Wang, K.J., Song, Y.J., Meng, X.Z., Xu, Z.X., Chen, L.H., Guo, M.M., Zhang, L.J., Zhang, L.L., Shi, D.Z. (2020). A Multicenter Randomized Controlled Pilot Trial Testing the Efficacy and Safety of Pterygopalatine Fossa Puncture Using One Acupuncture Needle for Moderate-to-Severe Persistent Allergic Rhinitis. *Evid Based Complement Alternat Med* 2020,2975974. DOI: 10.1155/2020/2975974

Übersichtsarbeiten

Egen, C., Ranker, A., Höpner, K., Sturm, C., Gutenbrunner, C., Fink, M., Banaschak, H., Lemke, S., Bethge, M., Schiller, J. (2020). Versorgungskonzept zur Schliessung der rehabilitativen Lücke nach Majoramputation der unteren Extremität. Praxisbericht aus einem Innovationsfondsprojekt des Gemeinsamen Bundesausschusses. *RP Reha* 27-37.

Egen, C., Schäfer, P., Gutenbrunner, C., Sturm, C. (2020).Therapeutische Versorgung in deutschen Universitätskliniken. Eine Analyse der Qualitätsberichte 2018. *Das Krankenhaus* 112,889-896.

Case reports

Bökel, A. (2020).Warum berufliche Teilhabe so schwierig ist. Ergebnisse aus der German Spinal Cord Injury Study (GerSCI). *PARAplegi-ker* 2,20-22.

Fuhr, H., Sturm, C. (2020).Ergotherapie bei rheumatischen Erkrankungen. *Arthritis + Rheuma* 40,20-24. DOI: 10.1055/a-1075-6809

Ranker, A. (2020).Kohlendioxid-Bäder (CO₂-Bäder). *Phys Med Rehab Kuror* 30,193-198. DOI: 10.1055/a-1198-1860

Ranker, A. (2020).Sensomotorische Schuheinlagen – Wirkprinzipien und Evidenz. *Man Therapie* 24,168-172. DOI: 10.1055/a-1213-0208

Schiller, J., Egen, C., Gutenbrunner, C., Presuhn, B., Seliger, B., Grisat, A., Sturm, C. (2020).Innovative Teamarbeit? Mobilisierungsroboter assistiert Physiotherapeutinnen in der stationären Versorgung eines Universitätsklinikums. *Phys Med Rehab Kuror* 30,382-387. DOI: 10.1055/a-1190-5205

Comments

Jiang, L., Li, Z., Liu, Y., Song, Y., Korallus, C. (2020).The Further of Unpowered Exoskeleton Assist Robot in Rehabilitation. *Am J Biomed Sci Res* 8,AJBSR.MS.ID.001229. DOI: 10.34297/AJBSR.2020.08.001229

Buchbeiträge, Monografien

Egen, C. (2020). Was ist Behinderung? Abwertung und Ausgrenzung von Menschen mit Funktionseinschränkungen vom Mittelalter bis zur Postmoderne (Bielefeld: Transcript).

Winkelmann, A., Bökel, A., Gutenbrunner, C. (2020). Rehabilitation im internationalen Vergleich. In: Erfolgreiches Rehabilitationsmanagement : ein Leitfaden für die Praxis, Dhein Y., eds. (Stuttgart: Verlag W. Kohlhammer) pp. 305-319

Abstracts

Bethge, M., Bassler, M., Gutenbrunner, C. (2020). Rehabilitation in den Mitgliedsgesellschaften der Arbeitsgemeinschaft der Wissenschaftlichen Medizinischen Fachgesellschaften. In: 29. Rehabilitationswissenschaftliches Kolloquium : Deutscher Kongress für Rehabilitationsforschung : Prävention und Rehabilitation - der Betrieb als Partner, vom 2. bis 4. März 2020 in Hannover, Deutsche Rentenversicherung Bund, eds. (Berlin: Deutsche Rentenversicherung Bund) pp. 518-519

Bökel, A., Sturm, C., Gutenbrunner, C. (2020). Wahrgenommene Umweltbarrieren von Menschen mit Querschnittlähmung in Deutschland. In: 29. Rehabilitationswissenschaftliches Kolloquium : Deutscher Kongress für Rehabilitationsforschung : Prävention und Rehabilitation - der Betrieb als Partner, vom 2. bis 4. März 2020 in Hannover, Deutsche Rentenversicherung Bund, eds. (Berlin: Deutsche Rentenversicherung Bund) pp. 87-88

Bökel, A., Sturm, C., Kalke, Y.B., Gutenbrunner, C., GerSCI-Study-Group. (2020).Labor market Participation of People with Spinal Cord Injury in Germany - Results of the German Spinal Cord Injury Survey. *Am J Phys Med Rehabil* 99,a74. DOI: 10.1097/PHM.0000000000001387

Gartmann, J., Geissler, N., Gutenbrunner, C., Andreeva, E. (2020). ArbeitsMarktbezogenes Assessment: Neues kriteriumsorientiertes Testsystem zur Quantifizierung des Leistungsvermögens bei Begutachtung auf körperlich leichte Erwerbstätigkeit. In: 29. Rehabilitationswissenschaftliches Kolloquium : Deutscher Kongress für Rehabilitationsforschung : Prävention und Rehabilitation - der Betrieb als Partner, vom 2. bis 4. März 2020 in Hannover, Deutsche Rentenversicherung Bund, eds. (Berlin: Deutsche Rentenversicherung Bund) pp. 314-316

Gutenbrunner, C., Corallus, C., Kahl, K., Tegtbur, U., Egen, C., Fuhr, H., Briest, J. (2020). Fit for Work and Life - Integrierte Prävention und Rehabilitation für Mitarbeiterinnen und Mitarbeiter eines Universitätsklinikums: Ergebnisse der Begleitevaluation. In: 29. Rehabilitationswissenschaftliches Kolloquium : Deutscher Kongress für Rehabilitationsforschung : Prävention und Rehabilitation - der Betrieb als Partner, vom 2. bis 4. März 2020 in Hannover, Deutsche Rentenversicherung Bund, eds. (Berlin: Deutsche Rentenversicherung Bund) pp. 124-125

Gutenbrunner, C., Nugraha, B., Kiekens, C., Gimigliano, F., Meyer, T. (2020). Die Internationale Klassifikation der Organisation von Rehabilitationseinrichtungen (ICSO-R 2.0) - Hintergrund und Anwendungsmöglichkeiten. In: 29. Rehabilitationswissenschaftliches Kolloquium : Deutscher Kongress für Rehabilitationsforschung : Prävention und Rehabilitation - der Betrieb als Partner, vom 2. bis 4. März 2020 in Hannover, Deutsche Rentenversicherung Bund, eds. (Berlin: Deutsche Rentenversicherung Bund) pp. 35-36

Kalke, Y.B., Bökel, A., Gutenbrunner, C., GerSCI-Study-Group. (2020).The German Spinal Cord Injury Survey leads to a policy brief to the Ministry of health in Berlin on the World SCI Day 2019. *Am J Phys Med Rehabil* 99,a362. DOI: 10.1097/PHM.0000000000001387

sonstiges

Geissler, N., Gartmann, J., Andreeva, E. (2020). AMA® : ein Projekt der Deutschen Rentenversicherung Braunschweig-Hannover ; Anwendermanual (Laaten: Deutsche Rentenversicherung Braunschweig-Hannover).

Geissler, N., Gartmann, J., Andreeva, E. (2020). Sapphire® Basistest : ein Projekt der Deutschen Rentenversicherung Braunschweig-Hannover : Anwendermanual (Laaten: Deutsche Rentenversicherung Braunschweig-Hannover).

Promotionen

Beverungen, H. (2019). Worldwide assessment of healthcare personnel dealing with lymphoedema Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Fernandes Almeida, C.M. (2019). Bedarf und Bedürfnis berufsbezogener Maßnahmen in der onkologischen Rehabilitation unter Berücksichtigung von sozialmedizinischer Leistungsbeurteilung und Krankheitsstatus. Dissertation, Medizinische Hochschule Hannover, 2020

Sturm, J. (2020). Beeinflussung der Muskelaktivität von Unterarm und Schultergürtel durch verschiedene Computer-Eingabegeräte am Arbeitsplatz. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Institut für Sportmedizin – 4250

Originalpublikationen

Bünemann, M., Bauer-Hohmann, M., Klewitz, F., Kyaw Tha Tun, E.M., Tegtbur, U., Pape, L., Schiffer, L., Schiffer, M., de Zwaan, M., Nöhre, M. (2020). Beliefs about immunosuppressant medication and correlates in a German kidney transplant population *J Psychosom Res* 132,109989. DOI: 10.1016/j.jpsychores.2020.109989

de Boer, S., Klewitz, F., Bauer-Hohmann, M., Schiffer, L., Tegtbur, U., Pape, L., Schiffer, M., de Zwaan, M., Nöhre, M. (2020). Knowledge About Immunosuppressant Medication and Its Correlates in a German Kidney Transplant Population - Results of a KTx360 degrees Substudy Patient Prefer Adherence 14,1699-1708. DOI: 10.2147/PPA.S269201

Frett, T., Green, D.A., Arz, M., Noppe, A., Petrat, G., Kramer, A., Kuemmel, J., Tegtbur, U., Jordan, J. (2020). Motion sickness symptoms during jumping exercise on a short-arm centrifuge *PLoS One* 15,e0234361. DOI: 10.1371/journal.pone.0234361

Frett, T., Green, D.A., Mulder, E., Noppe, A., Arz, M., Pustowalow, W., Petrat, G., Tegtbur, U., Jordan, J. (2020). Tolerability of daily intermittent or continuous short-arm centrifugation during 60-day 60 head down bed rest (AGBRESA study) *PLoS One* 15,e0239228. DOI: 10.1371/journal.pone.0239228

Hanke, A.A., Bartlau, J., Flöricke, F., Przemeczek, M., Horstmann, H., Weber-Spickschen, T.S., Sieg, L., Schumacher, C. (2020). Coagulation monitoring and transfusion in major non-emergency orthopaedic surgery - An observational study *J Orthop* 22,22-28. DOI: 10.1016/j.jor.2020.03.032

Hanke, A.A., Sundermeier, T., Boeck, H.T., Schieffer, E., Boyen, J., Braun, A.C., Rolff, S., Stein, L., Kück, M., Schiffer, M., Pape, L., de Zwaan, M., Haufe, S., Kerling, A., Tegtbur, U., Nöhre, M. (2020). Influence of Officially Ordered Restrictions During the First Wave of COVID-19 Pandemic on Physical Activity and Quality of Life in Patients after Kidney Transplantation in a Telemedicine Based Aftercare Program-A KTx360 degrees Sub Study *Int J Environ Res Public Health* 17,9144. DOI: 10.3390/ijerph17239144

Haufe, S., Kahl, K.G., Kerling, A., Protte, G., Bayerle, P., Stenner, H.T., Rolff, S., Sundermeier, T., Eigendorf, J., Kück, M., Hanke, A.A., Keller-Varady, K., Ensslen, R., Nachbar, L., Lauenstein, D., Böthig, D., Terkamp, C., Stiesch, M., Hilfiker-Kleiner, D., Haverich, A., Tegtbur, U. (2020). Employers With Metabolic Syndrome and Increased Depression/Anxiety Severity Profit Most From Structured Exercise Intervention for Work Ability and Quality of Life *Front Psychiatry* 11,562. DOI: 10.3389/fpsy.2020.00562

Hein, M., Chobanyan-Jürgens, K., Tegtbur, U., Engeli, S., Jordan, J., Haufe, S. (2021). Effect of normobaric hypoxic exercise on blood pressure in old individuals *Eur J Appl Physiol* 31,789-797. DOI: 10.1007/s00421-020-04572-6

Heinemann, N.C., Tischer-Zimmermann, S., Wittke, T.C., Eigendorf, J., Kerling, A., Framke, T., Melk, A., Heuft, H.G., Blasczyk, R., Maecker-Kolhoff, B., Eiz-Vesper, B. (2020). High-intensity interval training in allogeneic adoptive T-cell immunotherapy - a big HIT? *J Transl Med* 18,148. DOI: 10.1186/s12967-020-02301-3

Horstmann, H., Medico, P., Lasch, F., Krutsch, W., Weber-Spickschen, T.S. (2020).Simplified Measurement of Maximum Strength After Knee Surgery: Application-Based Knee-Training Device Compared to Isokinetic Testing Open Access J Sports Med 11,43-49. DOI: 10.2147/OAJSM.S214598

Maurus, I., Hasan, A., Schmitt, A., Roeh, A., Keeser, D., Malchow, B., Schneider-Axmann, T., Hellmich, M., Schmied, S., Lembeck, M., Keller-Varady, K., Papazova, I., Hirjak, D., Topor, C.E., Walter, H., Mohnke, S., Vogel, B.O., Wölwer, W., Schneider, F., Henkel, K., Meyer-Lindenberg, A., Falkai, P. (2021).Aerobic endurance training to improve cognition and enhance recovery in schizophrenia: design and methodology of a multicenter randomized controlled trial Eur Arch Psychiatry Clin Neurosci 277,315-324. DOI: 10.1007/s00406-020-01175-2

Maurus, I., Mantel, C., Keller-Varady, K., Schmitt, A., Lembeck, M., Röh, A., Papazova, I., Falkai, P., Schneider-Axmann, T., Hasan, A., Malchow, B. (2020).Resistance training in patients with schizophrenia: Concept and proof of principle trial J Psychiatr Res 120,72-82. DOI: 10.1016/j.jpsychires.2019.09.015

Mazhari, A.L., de Zwaan, M., Tegtbur, U., Pape, L., Schiffer, M. (2020).Die Versorgung von Patienten nach Nierentransplantation außerhalb der Regelversorgung: Herausforderungen und Chancen für die Nachsorge von Patienten im Projekt NTx360°. Nieren Hochdruck 49,381-389. DOI: 10.5414/NHX02133

Memaran, N., Schwalba, M., Borchert-Mörlins, B., von der Born, J., Markefke, S., Bauer, E., von Wick, A., Epping, J., von Maltzahn, N., Heyn-Schmidt, I., Grams, L., Homeyer, D., Kerling, A., Stiesch, M., Tegtbur, U., Haverich, A., Melk, A. (2020).Gesundheit und Fitness von deutschen Schulkindern. Monatsschr Kinderheilkd 168,597-607. DOI: 10.1007/s00112-020-00882-3

Nöhre, M., Schieffer, E., Hanke, A., Pape, L., Schiffer, L., Schiffer, M., de Zwaan, M. (2020).Obesity After Kidney Transplantation-Results of a KTx360 degrees Substudy Front Psychiatry 11,399. DOI: 10.3389/fpsy.2020.00399

Potthast, A.B., Nebl, J., Wasserfurth, P., Haufe, S., Eigendorf, J., Hahn, A., Das, A. (2020).Impact of Nutrition on Short-Term Exercise-Induced Sirtuin Regulation: Vegans Differ from Omnivores and Lacto-Ovo Vegetarians. Nutrients 12,1004. DOI: 10.3390/nu12041004

Rezvani, F., Heider, D., Härter, M., König, H.H., Bienert, F., Brinkmann, J., Herbarth, L., Kramer, E., Steinisch, P., Freudenstein, F., Terhalle, R., Grosse, Y., Bock, S., Posselt, J., Beutel, C., Reif, F., Kirchhoff, F., Neuschwander, C., Löffler, F., Brunner, L., Dickmeis, P., Heidenthal, T., Schmitz, L., Chase, D.P., Seelenmeyer, C., Alscher, M.D., Tegtbur, U., Dirmaier, J. (2020).Telephone health coaching with exercise monitoring using wearable activity trackers (TeGeCoach) for improving walking impairment in peripheral artery disease: study protocol for a randomised controlled trial and economic evaluation BMJ Open 10,e032146. DOI: 10.1136/bmjopen-2019-032146

Rolff, S., Korallus, C., Hanke, A.A. (2020).Rehabilitation mithilfe des "blood flow restriction training" Unfallchirurg 123,180-186. DOI: 10.1007/s00113-020-00770-1

Schwarze, M., Fieguth, V., Schuch, F., Sandner, P., Edelmann, E., Händel, A., Kettler, M., Hanke, A., Kück, M., Stein, L., Stille, C., Fellner, M., De Angelis, V., Touissant, S., Specker, C. (2021).Krankheitsbezogener Wissenserwerb durch strukturierte Patienteninformation bei Rheumatoider Arthritis (StruPI-RA) : Erste Ergebnisse der StruPI-RA-Studie in Deutschland Z Rheumatol 80,364-372. DOI: 10.1007/s00393-020-00871-7

Stenner, H.T., Boyen, J., Hein, M., Protte, G., Kück, M., Finkel, A., Hanke, A.A., Tegtbur, U. (2020).Everyday Pedelec Use and Its Effect on Meeting Physical Activity Guidelines Int J Environ Res Public Health 17,DOI: 10.3390/ijerph17134807

Stenner, H.T., Eigendorf, J., Kerling, A., Kueck, M., Hanke, A.A., Boyen, J., Nelius, A.K., Melk, A., Boethig, D., Bara, C., Hilfiker, A., Berliner, D., Bauersachs, J., Hilfiker-Kleiner, D., Eberhard, J., Stiesch, M., Schippert, C., Haverich, A., Tegtbur, U., Haufe, S. (2020).Effects of six month personalized endurance training on work ability in middle-aged sedentary women: a secondary analysis of a randomized controlled trial. J Occup Med Toxicol 15,8. DOI: 10.1186/s12995-020-00261-4

Tegtbur, U., Haufe, S., Busse, M.W. (2020).Anwendung und Effekte des "blood flow restriction training" Unfallchirurg 123,170-175. DOI: 10.1007/s00113-020-00774-x

Übersichtsarbeiten

Hanke, A.A., Wiechmann, K., Suckow, P., Rolff, S. (2020).Effektivität des "blood flow restriction training" im Leistungssport Unfallchirurg 123,176-179. DOI: 10.1007/s00113-020-00779-6

Editorials

Tegtbur, U. (2020). "Blood flow restriction training" Unfallchirurg 123,169. DOI: 10.1007/s00113-020-00769-8

Buchbeiträge, Monografien

Pape, L., Mazhari, A.L., Nolting, H.D., Wolff, J.K., Gertges, R., Hartleib-Otto, M., de Zwaan, M., Tegtbur, U., Lonnemann, G., Kliem, V.,

Feldhaus, F., Hellrung, N., Schiffer, M. (2020). NTx360° - ein klinik- und sektorenübergreifendes koordiniertes, multimodales, telemedizin-basiertes Nachsorgemodell nach Nierentransplantation. In: Market Access im Gesundheitswesen : Hürden und Zugangswege zur Gesundheitsversorgung, Pfannstiel M.A., eds. (Wiesbaden, Heidelberg: Springer Gabler) pp. 269-286

Abstracts

Gutenbrunner, C., Corallus, C., Kahl, K., Tegtbur, U., Egen, C., Fuhr, H., Briest, J. (2020). Fit for Work and Life - Integrierte Prävention und Rehabilitation für Mitarbeiterinnen und Mitarbeiter eines Universitätsklinikums: Ergebnisse der Begleitevaluation. In: 29. Rehabilitationswissenschaftliches Kolloquium : Deutscher Kongress für Rehabilitationsforschung : Prävention und Rehabilitation - der Betrieb als Partner, vom 2. bis 4. März 2020 in Hannover, Deutsche Rentenversicherung Bund, eds. (Berlin: Deutsche Rentenversicherung Bund) pp. 124-125

Habilitationen

Kerling, A.P.M. (2020). Trainingstherapie bei stationären Patientinnen und Patienten mit einer Major Depression - Auswirkungen auf körperliche Leistungsfähigkeit, physiologische und psychologische Parameter. Kumulative Habilitationsschrift, Medizinische Hochschule Hannover, 20XX

Promotionen

Fahlbusch, H. (2019). Steuerung des Glukosetransports bei hochintensiver, intermittierender Arbeit mit einer kleinen Muskelgruppe Dissertation, Medizinische Hochschule Hannover, 2020

Sieg, L.D. (2019). Einfluss mikroporöser Polysaccharid-Hämostyptika auf die viskoelastischen Eigenschaften der Blutgerinnung im Modell der Dilution. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Institut für Allgemeinmedizin – 5440

Originalpublikationen

Afshar, K., Herbst, F.A., Tetzlaff, F., Stiel, S., Schneider, N., Müller-Mundt, G. (2020). Hausärztliche Begleitung in der letzten Lebensphase (HA-Bel): Systematische Entwicklung und Anpassung der deutschsprachigen Version des General Practice End of Life Care Index Z Evid Fortbild Qual Gesundhwes 153-154,84-96. DOI: 10.1016/j.zefq.2020.05.011

Afshar, K., Matthias, K., Paulmann, V., Engel, B., Stiel, S., Schneider, N. (2020). Ärztliche Ausbildung im Fach Palliativmedizin an der Medizinischen Hochschule Hannover – Weiterentwicklung der interdisziplinären und sektorenübergreifenden Lehre im Querschnittsbereich Q13 (WEISE-Q13). Schmerz 34,140-147. DOI: 10.1007/s00482-019-00442-z

Afshar, K., Wiese, B., Schneider, N., Müller-Mundt, G. (2020). Systematic identification of critically ill and dying patients in primary care using the German version of the Supportive and Palliative Care Indicators Tool (SPIC-DE). Ger Med Sci 18,Doc02. DOI: 10.3205/000278

Biesewig-Siebenmorgen, J., Diederichs-Egidi, H., Egidi, G., Engel, B., Heim, S., Schmiemann, G. (2020). Wir wollen die Weiterbildung verbessern – aber was wollen eigentlich die ÄiW? ZFA 96,246-250. DOI: 10.3238/zfa.2020.0246-0250

Buczak-Stec, E., Hajek, A., van den Bussche, H., Eisele, M., Wiese, B., Mamone, S., Weyerer, S., Werle, J., Fuchs, A., Pentzek, M., Röhr, S., Welzel, F., Weeg, D., Mösch, E., Hesel, K., Wagner, M., Riedel-Heller, S.G., Maier, W., Scherer, M., König, H.H. (2020). Frequent attendance in primary care in the oldest old: evidence from the AgeCoDe-AgeQualiDe study Aging Clin Exp Res 32,2629-2638. DOI: 10.1007/s40520-020-01495-2

Derlin, K., Hellms, S., Gutberlet, M., Peperhove, M., Jang, M.S., Greite, R., Hartung, D., Derlin, T., Fegbeutel, C., Tudorache, I., Jüttner, B., Wiese, B., Lichtiginghagen, R., Haller, H., Haverich, A., Wacker, F., Warnecke, G., Gueler, F. (2020). Application of MR diffusion imaging for non-invasive assessment of acute kidney injury after lung transplantation Medicine (Baltimore) 99,e22445. DOI: 10.1097/MD.00000000000022445

Dettmer, S., Schneidewind, S., Fischer, V., Derlin, K., Schneider, N., Wacker, F., Afshar, K. (2020). Training zur strukturierten Befundung von Radiographien des Thorax mit OSCE-Prüfung : Ergebnisse einer Machbarkeitsstudie und Follow-up-Befragung. Radiologe 60,839-849. DOI: 10.1007/s00117-020-00684-4

Engel, B., Bleidorn, J., Scheider, N., Afshar, K. (2020). Implementierung von Exkursionen in die studentische Lehre im Fach Allgemeinmedizin. ZFA 96,176-182.

- Ewertowski, H., Hesse, A.K., Schneider, N., Stiel, S. (2019).Allgemeine Palliativversorgung in der hausärztlichen Praxis: Entwicklung von Strategien zur Verbesserung struktureller, rechtlicher und finanzieller Rahmenbedingungen Z Evid Fortbild Qual Gesundh wesen (ZEFQ) *149*,32-39. DOI: 10.1016/j.zefq.2019.12.003
- Freihoff, S., Tetzlaff, F., Schneider, N., Stiel, S., Müller-Mundt, G. (2020).„Das ist auch unser Ziel, dass wir diese Patienten in ruhigem Fahrwasser behandeln“ – Palliativversorgung älterer Menschen mit lebensbegrenzenden Erkrankungen in der hausärztlichen Praxis: Eine qualitative Studie. Z Palliativmed *21*,260-266. DOI: 10.1055/a-1223-3252
- Gawinski, L., Stiel, S., Schneider, N., Zimmermann, T., Herbst, F.A. (2021).Methodological Reflections on the Recruitment of Adult Child-Parent Dyads for End-of-Life Research in Germany: Experiences From the Dy@EoL Study J Pain Symptom Manage *61*,1196-1204.e1. DOI: 10.1016/j.jpainsymman.2020.10.016
- Gerlach, N., Michiels-Corsten, M., Viniol, A., Schleef, T., Junius-Walker, U., Krause, O., Donner-Banzhoff, N. (2020).Professional roles of general practitioners, community pharmacists and specialist providers in collaborative medication deprescribing - a qualitative study BMC Fam Pract *21*,183. DOI: 10.1186/s12875-020-01255-1
- Greten, S., Müller-Funogea, J.I., Wegner, F., Höglinger, G.U., Simon, N., Junius-Walker, U., Gerbel, S., Krause, O., Klietz, M. (2020).Drug safety profiles in geriatric patients with Parkinson's disease using the FORTA (Fit FOR The Aged) classification: results from a mono-centric retrospective analysis J Neural Transm (Vienna) DOI: 10.1007/s00702-020-02276-x
- Hajek, A., Bretschneider, C., Lühmann, D., van den Bussche, H., Oey, A., Wiese, B., Weyerer, S., Werle, J., Fuchs, A., Pentzek, M., Gühne, U., Riedel-Heller, S.G., Weeg, D., Bickel, H., Hesel, K., Wagner, M., Maier, W., Scherer, M., Röhr, S., König, H.H. (2020).Führt eine Zunahme depressiver Symptome zu einer Zunahme funktioneller Einschränkungen oder vice versa? Ergebnisse der AgeCoDe/AgeQualiDe-Studie Psychiatr Prax *47*,148-153. DOI: 10.1055/a-1089-3935
- Hajek, A., Bretschneider, C., Lühmann, D., van den Bussche, H., Wiese, B., Mamone, S., Weyerer, S., Werle, J., Leve, V., Fuchs, A., Röhr, S., Stein, J., Bickel, H., Mösch, E., Hesel, K., Wagner, M., Scherer, M., Maier, W., Riedel-Heller, S.G., Pentzek, M., König, H.H. (2020).Driving status and health-related quality of life among the oldest old: a population-based examination using data from the AgeCoDe-AgeQualiDe prospective cohort study Aging Clin Exp Res DOI: 10.1007/s40520-020-01482-7
- Hajek, A., Bretschneider, C., Mallon, T., Lühmann, D., Oey, A., Wiese, B., Weyerer, S., Werle, J., Fuchs, A., Pentzek, M., Röhr, S., Lippa, M., Mösch, E., Weeg, D., Hesel, K., Wagner, M., Scherer, M., Maier, W., Riedel-Heller, S.G., König, H.H. (2020).Depressive Symptoms and Frailty Among the Oldest Old: Evidence From the Multicenter Prospective AgeCoDe-AgeQualiDe Study J Am Med Dir Assoc DOI: 10.1016/j.jamda.2020.10.008
- Hajek, A., Bretschneider, C., Röhr, S., Gühne, U., van der Leeden, C., Lühmann, D., Mamone, S., Wiese, B., Weyerer, S., Werle, J., Fuchs, A., Pentzek, M., Weeg, D., Mösch, E., Hesel, K., Wagner, M., Maier, W., Riedel-Heller, S.G., Scherer, M., König, H.H. (2020).Which Factors Contribute to Frailty among the Oldest Old? Results of the Multicentre Prospective AgeCoDe and AgeQualiDe Study Gerontology *66*,460-466. DOI: 10.1159/000508723
- Hajek, A., Bretschneider, C., van der Leeden, C., Lühmann, D., Oey, A., Wiese, B., Weyerer, S., Werle, J., Fuchs, A., Pentzek, M., Röhr, S., Löbner, M., Mösch, E., Bickel, H., Hesel, K., Wagner, M., Scherer, M., Maier, W., Riedel-Heller, S.G., König, H.H. (2020).Prevalence and factors associated with obesity among the oldest old Arch Gerontol Geriatr *89*DOI: 10.1016/j.archger.2020.104069
- Heck, J., Ranker, A., Wranke, A., Kano, L., Macke, C., Rademacher, J., Stichtenoth, D.O., Krause, O. (2021).Die interdisziplinäre alterstraumatologische Visite : Empfehlungen für den Klinikalltag Unfallchirurg *124*,138-145. DOI: 10.1007/s00113-020-00833-3
- Heckel, M., Vogt, A.R., Stiel, S., Radon, J., Kurkowski, S., Goebel, S., Christoph, O., Weber, M. (2020).The quality of care of the dying in hospital-next-of-kin perspectives. Support Care Cancer *28*,4527-4537. DOI: 10.1007/s00520-020-05465-2
- Herbst, F.A., Stiel, S., Wiese, B., Rothmund, A., Yilmaz, M., Schneider, N. (2020).Wo versterben die Menschen in der Region Hannover? Eine Analyse von Todesbescheinigungen. ZFA *96*,457-462. DOI: 10.3238/zfa.2020.0457-0462
- Hesel, K., Kleineidam, L., Pabst, A., Wiese, B., Roehr, S., Löbner, M., Hajek, A., van der Leeden, C., Angermeyer, M.C., Scherer, M., König, H.H., Maier, W., Riedel-Heller, S.G., Wagner, M. (2020).Sex-Specific Associations Between Depressive Symptoms and Risk for Subsequent Dementia J Alzheimers Dis *74*,151-161. DOI: 10.3233/JAD-190770
- Hussenoeder, F.S., Conrad, I., Roehr, S., Fuchs, A., Pentzek, M., Bickel, H., Moesch, E., Weyerer, S., Werle, J., Wiese, B., Mamone, S., Bretschneider, C., Hesel, K., Kleineidam, L., Kaduszkiewicz, H., Eisele, M., Maier, W., Wagner, M., Scherer, M., König, H.H., Riedel-Heller, S.G. (2020).Mild cognitive impairment and quality of life in the oldest old: a closer look Qual Life Res *29*,1675-1683. DOI: 10.1007/s11136-020-02425-5

- Jessen, F., Kleineidam, L., Wolfgruber, S., Bickel, H., Brettschneider, C., Fuchs, A., Kaduszkiewicz, H., König, H.H., Mallon, T., Mamone, S., Pabst, A., Pentzek, M., Roehr, S., Weeg, D., Jochen, W., Weyerer, S., Wiese, B., Maier, W., Scherer, M., Riedel-Heller, S., Wagner, M. (2020). Prediction of dementia of Alzheimer type by different types of subjective cognitive decline. *Alzheimers Dement* 16,1745-1749. DOI: 10.1002/alz.12163
- Kirsch, C., Doyle, I.M., Krause, O., Junius-Walker, U., Wiese, B., Thürmann, P., Sparenberg, L.C., Wollny, A., Fuchs, A., Wilm, S., Joos, S., Stolz, R., Haumann, H. (2020). "Lessons learned" - Herausforderungen im Rekrutierungsprozess in der cluster-randomisierten Pflegeheimstudie "HIOPP-3 iTBX". *Z Evid Fortbild Qual Gesundheitswes* 30,1548-1553. DOI: 10.1016/j.zefq.2020.07.002
- Klietz, M., Berndt, J.M., Wegner, F., Schneider, N., Höglinger, G.U., Eggers, C., Stiel, S. (2020). Consensus-Based Recommendations for Advance Directives of People with Parkinson's Disease in Regard to Typical Complications by German Movement Disorder Specialists. *J Clin Med* 9, E449 [pii]. DOI: 10.3390/jcm9020449
- König, H.H., Brettschneider, C., Lühmann, D., Kaduszkiewicz, H., Oey, A., Wiese, B., Werle, J., Weyerer, S., Fuchs, A., Pentzek, M., Conrad, I., Röhr, S., Weeg, D., Bickel, H., Hesel, K., Wagner, M., Scherer, M., Maier, W., Riedel-Heller, S.G., Hajek, A. (2020). EQ-5D-3L health status and health state utilities of the oldest-old (85+) in Germany: results from the AgeCoDe-AgeQualiDe study. *Qual Life Res* 29,3223-3232. DOI: 10.1007/s11136-020-02597-0
- Kurkowski, S., Radon, J., Vogt, A.R., Weber, M., Stiel, S., Ostgathe, C., Heckel, M. (2021). Hospital end-of-life care: families' free-text notes. *BMJ Support Palliat Care* 28,637-652.e8. DOI: 10.1136/bmjspcare-2020-00239
- Ludwig, A., Doyle, I.M., Löffler, A., Breckenkamp, J., Spallek, J., Razum, O., Miani, C. (2020). The impact of psychosocial factors on breastfeeding duration in the BaBi-Study. Analysis of a birth cohort study in Germany. *Midwifery* 86,102688. DOI: 10.1016/j.midw.2020.102688
- Ludwig, A., Miani, C., Breckenkamp, J., Sauzet, O., Borde, T., Doyle, I.M., Brenne, S., Höller-Holtrichter, C., David, M., Spallek, J., Razum, O. (2020). Are Social Status and Migration Background Associated with Utilization of Non-medical Antenatal Care? Analyses from Two German Studies. *Matern Child Health J* 24,943-952. DOI: 10.1007/s10995-020-02937-z
- Marchesi, A., Silva, J.A., Wiese, B., Nader-Macias, M.E.F. (2020). Survival of Beneficial Vaginal Lactobacilli (BVL) to Different Gastrointestinal Tract Conditions. *Curr Pharm Des* 26,3608-3618. DOI: 10.2174/1381612826666200218093607
- Mortsiefer, A., Wilm, S., Santos, S., Löscher, S., Wollny, A., Drewelow, E., Ritzke, M., Thürmann, P., Mann, N.K., Meyer, G., Abraham, J., Icks, A., Montalbo, J., Wiese, B., Altiner, A., COFRAIL study group. (2020). Family conferences and shared prioritisation to improve patient safety in the frail elderly (COFRAIL): study protocol of a cluster randomised intervention trial in primary care. *Trials* 27,285. DOI: 10.1186/s13063-020-4182-x
- Razaeian, S., Wiese, B., Zhang, D., Harb, A., Krettek, C., Hawi, N. (2020). Nonsensus in the treatment of proximal humerus fractures: uncontrolled, blinded, comparative behavioural analysis between *Homo chirurgicus accidentus* and *Macaca sylvanus*. *BMJ* 371,m4429. DOI: 10.1136/bmj.m4429
- Razaeian, S., Wiese, B., Zhang, D., Krettek, C., Meller, R., Hawi, N. (2020). Correlation between Oxford Elbow Score and Single Assessment Numeric Evaluation: Is one simple question enough? *J Shoulder Elbow Surg* 29,1223-1229. DOI: 10.1016/j.jse.2020.01.067
- Rodriguez, F.S., Roehr, S., Pabst, A., Kleineidam, L., Fuchs, A., Wiese, B., Lühmann, D., Brettschneider, C., Wolfgruber, S., Pentzek, M., van den Bussche, H., König, H.H., Weyerer, S., Werle, J., Bickel, H., Weeg, D., Maier, W., Scherer, M., Wagner, M., Riedel-Heller, S.G. (2021). Effects of APOE e4-allele and mental work demands on cognitive decline in old age: Results from the German Study on Ageing, Cognition, and Dementia in Primary Care Patients (AgeCoDe). *Int J Geriatr Psychiatry* 36,152-162. DOI: 10.1002/gps.5409
- Röhr, S., Löbner, M., Gühne, U., Hesel, K., Kleineidam, L., Pentzek, M., Fuchs, A., Eisele, M., Kaduszkiewicz, H., König, H.H., Brettschneider, C., Wiese, B., Mamone, S., Weyerer, S., Werle, J., Bickel, H., Weeg, D., Maier, W., Scherer, M., Wagner, M., Riedel-Heller, S.G. (2020). Changes in Social Network Size Are Associated With Cognitive Changes in the Oldest-Old. *Front Psychiatry* 11,330. DOI: 10.3389/fpsy.2020.00330
- Roller-Wirnsberger, R., Lindner, S., Liew, A., O'Caioimh, R., Koula, M.L., Moody, D., Espinosa, J.M., van Durme, T., Dimitrov, P., Benjak, T., Nicolaidou, E., Hammar, T., Vanhecke, E., Junius-Walker, U., Csizmadia, P., Galluzzo, L., Macijauskiene, J., Salem, M., Rietman, L., Ranhoff, A.H., Targowski, T., de Arriaga, M.T., Bozdog, E., Gabrovec, B., Hendry, A., Martin, F.C., Rodriguez-Manas, L. (2020). European Collaborative and Interprofessional Capability Framework for Prevention and Management of Frailty—a consensus process supported by the Joint Action for Frailty Prevention (ADVANTAGE) and the European Geriatric Medicine Society (EuGMS). *Aging Clin Exp Res* 32,561-570. DOI: 10.1007/s40520-019-01455-5

- Safieddine, B., Sperlich, S., Beller, J., Lange, K., Epping, J., Tetzlaff, J., Tetzlaff, F., Geyer, S. (2020). Socioeconomic inequalities in type 2 diabetes in employed individuals, nonworking spouses and pensioners. *SSM - Population Health* 11,100596. DOI: 10.1016/j.ssmph.2020.100596
- Schnakenberg, R., Silies, K., Berg, A., Kirchner, A., Langner, H., Chuvayaran, Y., Köberlein-Neu, J., Haastert, B., Wiese, B., Meyer, G., Köpke, S., Hoffmann, F. (2020). Study on advance care planning in care dependent community-dwelling older persons in Germany (STADPLAN): protocol of a cluster-randomised controlled trial *BMC Geriatr* 20,142. DOI: 10.1186/s12877-020-01537-4
- Schrader, S., van Baal, K., Schleef, T., Schneider, N., Afshar, K., Müller-Mundt, G. (2020). „... das klassische Problem ist zu sagen, man ist ja jetzt palliativ“ – Versorgung am Lebensende an den Schnittstellen zur hausärztlichen Versorgung in ländlich geprägten Regionen – eine qualitative multiperspektivische Studie. *Z Palliativmed* 27,309-315. DOI: 10.1055/a-1228-6556
- Schulte, P., Ritter, S.M., Schneider, N., Stiel, S. (2020). Wie zufrieden sind Landärzte? Eine quantitative Analyse in zwei Landkreisen in Niedersachsen. *ZFA* 96,270-275. DOI: 10.3238/zfa.2020.0270-0275
- Silva, J.A., Marchesi, A., Wiese, B., Nader-Macias, M.E.F. (2020). Screening of autochthonous vaginal beneficial lactobacilli strains by their growth at high temperatures for technological applications *Antonie Van Leeuwenhoek* 113,1393-1409. DOI: 10.1007/s10482-020-01431-4
- Stähl, A., Stiel, S., Paal, P., Lorenz, S., Elsner, F. (2020). Postgraduate palliative care education and curricular issues in Central Asia, Eastern and South-Eastern Europe: Results from a quantitative study. *Palliative Medicine in Practice* 14,81-88. DOI: 10.5603/PMPI.2020.0008
- Stiel, S., Ewertowski, H., Krause, O., Schneider, N. (2020). What do positive and negative experiences of patients, relatives, general practitioners, medical assistants, and nurses tell us about barriers and supporting factors in outpatient palliative care? A critical incident interview study. *GMS Ger Med Sci* 18,Doc 08. DOI: 10.3205/000284
- Tetzlaff, F., Epping, J., Golpon, H., Tetzlaff, J. (2020). Compression, expansion, or maybe both? Growing inequalities in lung cancer in Germany *PLoS One* 15,e0242433. DOI: 10.1371/journal.pone.0242433
- Tetzlaff, F., Epping, J., Sperlich, S., Tetzlaff, J. (2020). Widening income inequalities in life expectancy? Analysing time trends based on German health insurance data. *J Epidemiol Community Health* 74,592-597. DOI: 10.1136/jech-2019-212966
- Tetzlaff, J., Geyer, S., Tetzlaff, F., Epping, J. (2020). Income inequalities in stroke incidence and mortality: Trends in stroke-free and stroke-affected life years based on German health insurance data *PLoS One* 15,e0227541. DOI: 10.1371/journal.pone.0227541
- van Baal, K., Allofs, J., Ehrenbrusthoff, K., Grüneberg, C., Hering, T., Kopkow, C., Thiel, C. (2020). Effects of a movement control and tactile acuity training in patients with nonspecific chronic low back pain and control impairment - a randomised controlled pilot study *BMC Musculoskelet Disord* 21,794. DOI: 10.1186/s12891-020-03727-y
- van Baal, K., Schrader, S., Schneider, N., Wiese, B., Stahmeyer, J.T., Eberhard, S., Geyer, S., Stiel, S., Afshar, K. (2020). Quality indicators for the evaluation of end-of-life care in Germany - a retrospective cross-sectional analysis of statutory health insurance data *BMC Palliat Care* 19,187. DOI: 10.1186/s12904-020-00679-x
- van Baal, K., Schrader, S., Wiese, B., Geyer, S., Stiel, S., Schneider, N., Müller-Mundt, G., Afshar, K. (2020). GPs' perspective on End-of-Life Care – an evaluation based on the German version of the General Practice End of Life Care Index. *Ger Med Sci* 18,Doc10. DOI: 10.3205/000286
- Verdonk, P., Gawinski, L., Herbst, F.A., Ewertowski, H., van Baal, K., Schrader, S., Zimansky, M., Afshar, K., Schneider, N., Stiel, S. (2020). Reflexionen und Analysen zu Geschlecht, Gender und Diversität in der Palliativmedizinischen Forschung – Wie können wir Intersektionalität in unserer wissenschaftlichen Praxis umsetzen? *Z Palliativmed* 27,129-135. DOI: 10.1055/a-1134-6922
- Vogt, A., Stiel, S., Heckel, M., Goebel, S., Mai, S.S., Seifert, A., Gerlach, C., Ostgathe, C., Weber, M. (2020). Assessment of the quality of end-of-life care: translation and validation of the German version of the "Care of the Dying Evaluation" (CODE-GER) - a questionnaire for bereaved relatives. *Health Qual Life Outcomes* 18,311. DOI: 10.1186/s12955-020-01473-2
- von Lengerke, T., Afshar, K., Just, I., Lange, K. (2020). Classroom teaching with simulated patients during COVID-19: the communication skills course in the second year of the model medical curriculum Hannibal. *GMS J Med Educ* 37,Doc81. DOI: 10.3205/zma001374
- von Lengerke, T., Afshar, K., Just, I., Lange, K. (2020). Präsenzlehre mit Simulationspersonen in Zeiten von COVID-19: Das Gesprächsführungspraktikum im 2. Studienjahr des Modellstudiengangs Hannibal. *GMS J Med Educ* 37,Doc81. DOI: 10.3205/zma001374

Werner, M., Krause, O., Macke, C., Herold, L., Ranker, A., Krettek, C., Liodakis, E. (2020). Orthogeriatric co-management for proximal femoral fractures. Can two additions make a big difference? *BMC Musculoskelet Disord* 21,371. DOI: 10.1186/s12891-020-03392-1

Zimansky, M., Gerdes, A., Schneider, N., Stiel, S. (2020). Maßnahmen zur Verbesserung der allgemeinen ambulanten Palliativversorgung aus Sicht hausärztlicher Praxisteams. *Z Palliativmed* 22,41-46. DOI: 10.1055/a-1310-6865

Übersichtsarbeiten

Michiels-Corsten, M., Gerlach, N., Schleaf, T., Junius-Walker, U., Donner-Banzhoff, N., Viniol, A. (2020). Generic instruments for drug discontinuation in primary care: A systematic review *Br J Clin Pharmacol* 86,1251-1266. DOI: 10.1111/bcp.14287

Case reports

Heck, J., Groh, A., Stichtenoth, D.O., Bleich, S., Krause, O. (2020). Look-alikes, sound-alikes: Three cases of insidious medication errors. *Clin Case Rep* 8,3284-3287. DOI: 10.1002/ccr3.3409

Herausgeberschaften

Herbst, F.A., Gawinski, L., Stiel, S., Schneider, N. eds. (2020). Zum Umgang mit Belastungen am Lebensende - Empfehlungen für psychosoziale Unterstützungsmaßnahmen für Eltern und erwachsene Kinder (Hannover: MHH, Institut für Allgemeinmedizin, Projektgruppe Dy@EoL)

sonstiges

Afshar, K., Laskowski, N.M., Schleaf, T., Steffens, S. (2020). Arztberuf: Selbstfürsorge schon im Studium. *Dtsch Arztebl International* 117,A-2405-A-2407.

Heckel, M., Kremeike, K., Stiel, S., Herbst, F.A. (2020). Gemischt-methodische Studiendesigns in der Palliativforschung. *Z Palliativmed* 27,169-172. DOI: 10.1055/a-1174-8056

Junius-Walker, U., Krause, O. (2020). Screening auf Frailty in der Hausarztpraxis. *Allgemeinarzt* 42,44-48.

Krause, O., Hager, K., Afshar, K. (2020). Daumen hoch - 79-jähriger Mann mit schmerzhaften Hautveränderungen. *Dtsch Med*

Habilitationen

Krause, O. (2020). Polypharmazie und Arzneimitteltherapiesicherheit bei alten Menschen in Hausarztpraxis, Altenheim und Krankenhaus - Probleme und Lösungsansätze. *Habilitationsschrift, Medizinische Hochschule Hannover, 2020*

Promotionen

Martens, F. (2020). Strukturierte Identifikation von Patient_innen, die von einer Palliativversorgung profitieren können eine Erprobung des Supportive and Palliative Care Indicators Tool (SPICT) im Krankenhaus. *Dissertation, Medizinische Hochschule Hannover, 2020*

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Originalpublikationen

Bailey, M.H., Meyerson, W.U., Dursi, L.J., Wang, L.B., Dong, G., Liang, W.W., Weerasinghe, A., Li, S., Li, Y., Kelso, S., MC3 Working Group, PCAWG novel somatic mutation calling methods working group, Saksena, G., Ellrott, K., Wendl, M.C., Wheeler, D.A., Getz, G., Simpson, J.T., Gerstein, M.B., Ding, L., PCAWG Consortium. (2020). Retrospective evaluation of whole exome and genome mutation calls in 746 cancer samples. *Nat Commun* 11,4748-020-18151-y. DOI: 10.1038/s41467-020-18151-y

Barnes, D.R., Rookus, M.A., McGuffog, L., Leslie, G., Mooij, T.M., Dennis, J., Mavaddat, N., Adlard, J., Ahmed, M., Aittomäki, K., Andrieu, N., Andrulis, I.L., Arnold, N., Arun, B.K., Azzollini, J., Balmana, J., Barkardottir, R.B., Barrowdale, D., Benitez, J., Berthet, P., Bialkowska,

K., Blanco, A.M., Blok, M.J., Bonanni, B., Boonen, S.E., Borg, A., Bozsik, A., Bradbury, A.R., Brennan, P., Brewer, C., Brunet, J., Buys, S.S., Caldes, T., Caligo, M.A., Campbell, I., Christensen, L.L., Chung, W.K., Claes, K.B.M., Colas, C., GEMO Study Collaborators, EMBRACE Collaborators, Collonge-Rame, M.A., Cook, J., Daly, M.B., Davidson, R., de la Hoya, M., de Putter, R., Delnatte, C., Devilee, P., Diez, O., Ding, Y.C., Domchek, S.M., Dorfling, C.M., Dumont, M., Eeles, R., Ejlertsen, B., Engel, C., Evans, D.G., Faivre, L., Foretova, L., Fostira, F., Friedlander, M., Friedman, E., Frost, D., Ganz, P.A., Garber, J., Gehrig, A., Gerdes, A.M., Gesta, P., Giraud, S., Glendon, G., Godwin, A.K., Goldgar, D.E., Gonzalez-Neira, A., Greene, M.H., Gschwantler-Kaulich, D., Hahnen, E., Hamann, U., Hanson, H., Hentschel, J., Hogervorst, F.B.L., Hoening, M.J., Horvath, J., Hu, C., Hulick, P.J., Imyanitov, E.N., kConFab Investigators, HEBON Investigators, GENEPSO Investigators, Isaacs, C., Izatt, L., Izquierdo, A., Jakubowska, A., James, P.A., Janavicius, R., John, E.M., Joseph, V., Karlan, B.Y., Kast, K., Koudijs, M., Kruse, T.A., Kwong, A., Laitman, Y., Lasset, C., Lazaro, C., Lester, J., Lesueur, F., Liljegren, A., Loud, J.T., Lubinski, J., Mai, P.L., Manoukian, S., Mari, V., Mebirouk, N., Meijers-Heijboer, H.E.J., Meindl, A., Mensenkamp, A.R., Miller, A., Montagna, M., Mouret-Fourme, E., Mukherjee, S., Mulligan, A.M., Nathanson, K.L., Neuhausen, S.L., Nevanlinna, H., Niederacher, D., Nielsen, F.C., Nikitina-Zake, L., Nogues, C., Olah, E., Olopade, O.I., Ong, K.R., O'Shaughnessy-Kirwan, A., Osorio, A., Ott, C.E., Papi, L., Park, S.K., Parsons, M.T., Pedersen, I.S., Peissel, B., Peixoto, A., Peterlongo, P., Pfeiler, G., Phillips, K.A., Prajzandanc, K., Pujana, M.A., Radice, P., Ramser, J., Ramus, S.J., Rantala, J., Rennert, G., Risch, H.A., Robson, M., Ronlund, K., Salani, R., Schuster, H., Senter, L., Shah, P.D., Sharma, P., Side, L.E., Singer, C.F., Slavin, T.P., Soucy, P., Southey, M.C., Spurdle, A.B., Steinemann, D., Steinsnyder, Z., Stoppa-Lyonnet, D., Sutter, C., Tan, Y.Y., Teixeira, M.R., Teo, S.H., Thull, D.L., Tischkowitz, M., Tognazzo, S., Toland, A.E., Trainer, A.H., Tung, N., van Engelen, K., van Rensburg, E.J., Vega, A., Vierstraete, J., Wagner, G., Walker, L., Wang-Gohrke, S., Wappenschmidt, B., Weitzel, J.N., Yadav, S., Yang, X., Yan-noukakos, D., Zimbalatti, D., Offit, K., Thomassen, M., Couch, F.J., Schmutzler, R.K., Simard, J., Easton, D.F., Chenevix-Trench, G., Antoniou, A.C., Consortium of Investigators of Modifiers of BRCA and BRCA2. (2020). Polygenic risk scores and breast and epithelial ovarian cancer risks for carriers of BRCA1 and BRCA2 pathogenic variants *Genet Med* *22*,1653-1666. DOI: 10.1038/s41436-020-0862-x

Berking, A.C., Thiel, C., Schiele, M.A., Baumann, C., Kalisch, R., Notzen, S., Zwanzger, P., Pane-Farre, C.A., Hamm, A., Alpers, G.W., Fydrich, T., Fehm, L., Gerlach, A.L., Straube, B., Kircher, T., Rief, W., Plag, J., Ströhle, A., Lang, T., Wittchen, H.U., Arolt, V., Romanos, M., Pauli, P., Reif, A., Deckert, J., Domschke, K., Weber, H. (2020). An investigation of genetic variability of DNA methyltransferases DNMT3A and 3B does not provide evidence for a major role in the pathogenesis of panic disorder and dimensional anxiety phenotypes *J Neural Transm (Vienna)* *127*,1527-1537. DOI: 10.1007/s00702-020-02206-x

Bertho, L., Schmidt, K., Schmidtke, J., Brants, I., Canton, R.F., Novillo, C., Head, G. (2020). Results from ten years of post-market environmental monitoring of genetically modified MON 810 maize in the European Union *PLoS One* *15*,e0217272. DOI: 10.1371/journal.pone.0217272

Bhat, J., Bergmann, A.K., Waschina, S., Nerl, C., Kaleta, C., Siebert, R., Ammerpohl, O., Kabelitz, D. (2021). DNA methylation profile of a hepatosplenic gamma/delta T-cell lymphoma patient associated with response to interferon-alpha therapy *Cell Mol Immunol* *18*,1332-1335. DOI: 10.1038/s41423-020-0518-4

Christgen, M., Bartels, S., van Luttikhuisen, J.L., Bublitz, J., Rieger, L.U., Christgen, H., Stark, H., Sander, B., Lehmann, U., Steinemann, D., Derksen, P.W.B., Kreipe, H. (2020). E-cadherin to P-cadherin switching in lobular breast cancer with tubular elements *Mod Pathol* *33*,2483-2498. DOI: 10.1038/s41379-020-0591-3

Christians, A., Weiss, A.C., Martens, H., Klopff, M.G., Hennies, I., Haffner, D., Kispert, A., Weber, R.G. (2020). Inflammation-like changes in the urothelium of Lifr-deficient mice and LIFR-haploinsufficient humans with urinary tract anomalies *Hum Mol Genet* *29*,1192-1204. DOI: 10.1093/hmg/ddaa048

Dahlmann, J., Sahabian, A., Drick, N., Haase, A., Göhring, G., Lachmann, N., Ringshausen, F.C., Welte, T., Martin, U., Olmer, R. (2020). Generation of two hiPSC lines (MHHi016-A, MHHi016-B) from a primary ciliary dyskinesia patient carrying a homozygous 5 bp duplication (c.248_252dup (p.Gly85Cysfs*11)) in exon 1 of the CCNO gene. *Stem Cell Res* *46*,101850. DOI: 10.1016/j.scr.2020.101850

Dominguez-Valentin, M., Crosbie, E.J., Engel, C., Aretz, S., Macrae, F., Winship, I., Capella, G., Thomas, H., Nakken, S., Hovig, E., Nielsen, M., Sijmons, R.H., Bertario, L., Bonanni, B., Tibiletti, M.G., Cavestro, G.M., Mints, M., Gluck, N., Katz, L., Heinemann, K., Vaccaro, C.A., Green, K., Lalloo, F., Hill, J., Schmiegel, W., Vangala, D., Perne, C., Strauss, H.G., Tecklenburg, J., Holinski-Feder, E., Steinke-Lange, V., Mecklin, J.P., Plazzer, J.P., Pineda, M., Navarro, M., Vidal, J.B., Kariv, R., Rosner, G., Pinerio, T.A., Gonzalez, M.L., Kalfayan, P., Ryan, N., Ten Broeke, S.W., Jenkins, M.A., Sunde, L., Bernstein, I., Burn, J., Greenblatt, M., de Vos Tot Nederveen Cappel, W.H., Della Valle, A., Lopez-Koestner, F., Alvarez, K., Büttner, R., Görgens, H., Morak, M., Holzapfel, S., Hüneburg, R., von Knebel Doeberitz, M., Loeffler, M., Rahner, N., Weitz, J., Pylvänäinen, K., Renkonen-Sinisalo, L., Lepistö, A., Auranen, A., Hopper, J.L., Win, A.K., Haile, R.W., Lindor, N.M., Gallinger, S., Le Marchand, L., Newcomb, P.A., Figueiredo, J.C., Thibodeau, S.N., Therkildsen, C., Okkels, H., Ketabi, Z., Denton, O.G., Rodland, E.A., Vasen, H., Neffa, F., Esperon, P., Tjandra, D., Möslin, G., Sampson, J.R., Evans, D.G., Seppälä, T.T., Moller, P. (2021). Risk-reducing hysterectomy and bilateral salpingo-oophorectomy in female heterozygotes of pathogenic mismatch repair variants: a Prospective Lynch Syndrome Database report *Genet Med* *23*,705-712. DOI: 10.1038/s41436-020-01029-1

Dominguez-Valentin, M., Seppälä, T.T., Engel, C., Aretz, S., Macrae, F., Winship, I., Capella, G., Thomas, H., Hovig, E., Nielsen, M., Sijmons, R.H., Bertario, L., Bonanni, B., Tibiletti, M.G., Cavestro, G.M., Mints, M., Gluck, N., Katz, L., Heinemann, K., Vaccaro, C.A., Green, K., Lalloo, F., Hill, J., Schmiegel, W., Vangala, D., Perne, C., Strauss, H.G., Tecklenburg, J., Holinski-Feder, E., Steinke-Lange, V., Mecklin, J.P., Plazzer, J.P., Pineda, M., Navarro, M., Vidal, J.B., Kariv, R., Rosner, G., Pinerio, T.A., Gonzalez, M.L., Kalfayan, P., Sampson, J.R.,

Ryan, N.A.J., Evans, D.G., Moller, P., Crosbie, E.J. (2020). Risk-Reducing Gynecological Surgery in Lynch Syndrome: Results of an International Survey from the Prospective Lynch Syndrome Database *J Clin Med* 9. DOI: 10.3390/jcm9072290

Fachal, L., Aschard, H., Beesley, J., Barnes, D.R., Allen, J., Kar, S., Pooley, K.A., Dennis, J., Michailidou, K., Turman, C., Soucy, P., Lemaccon, A., Lush, M., Tyrer, J.P., Ghousaini, M., Moradi Marjaneh, M., Jiang, X., Agata, S., Aittomaki, K., Alonso, M.R., Andrulis, I.L., Anton-Culver, H., Antonenkova, N.N., Arason, A., Arndt, V., Aronson, K.J., Arun, B.K., Auber, B., Auer, P.L., Azzollini, J., Balmana, J., Barkardottir, R.B., Barrowdale, D., Beeghly-Fadiel, A., Benitez, J., Bermisheva, M., Bialkowska, K., Blanco, A.M., Blomqvist, C., Blot, W., Bogdanova, N.V., Bojesen, S.E., Bolla, M.K., Bonanni, B., Borg, A., Bosse, K., Brauch, H., Brenner, H., Briceno, I., Brock, I.W., Brooks-Wilson, A., Bruning, T., Burwinkel, B., Buys, S.S., Cai, Q., Caldes, T., Caligo, M.A., Camp, N.J., Campbell, I., Canzian, F., Carroll, J.S., Carter, B.D., Castelao, J.E., Chiquette, J., Christiansen, H., Chung, W.K., Claes, K.B.M., Clarke, C.L., GEMO Study Collaborators, EMBRACE Collaborators, Collee, J.M., Cornelissen, S., Couch, F.J., Cox, A., Cross, S.S., Cybulski, C., Czene, K., Daly, M.B., de la Hoya, M., Devilee, P., Diez, O., Ding, Y.C., Dite, G.S., Domchek, S.M., Dörk, T., Dos-Santos-Silva, I., Droit, A., Dubois, S., Dumont, M., Duran, M., Durcan, L., Dwek, M., Eccles, D.M., Engel, C., Eriksson, M., Evans, D.G., Fasching, P.A., Fletcher, O., Floris, G., Flyger, H., Foretova, L., Foulkes, W.D., Friedman, E., Fritschi, L., Frost, D., Gabrielson, M., Gago-Dominguez, M., Gambino, G., Ganz, P.A., Gapstur, S.M., Garber, J., Garcia-Saenz, J.A., Gaudet, M.M., Georgoulas, V., Giles, G.G., Glendon, G., Godwin, A.K., Goldberg, M.S., Goldgar, D.E., Gonzalez-Neira, A., Tibiletti, M.G., Greene, M.H., Grip, M., Gronwald, J., Grundy, A., Guenel, P., Hahnen, E., Haiman, C.A., Hakansson, N., Hall, P., Hamann, U., Harrington, P.A., Hartikainen, J.M., Hartman, M., He, W., Healey, C.S., Heemskerk-Gerritsen, B.A.M., Heyworth, J., Hillemanns, P., Hogervorst, F.B.L., Hollestelle, A., Hooning, M.J., Hopper, J.L., Howell, A., Huang, G., Hulick, P.J., Imyanitov, E.N., KConFab Investigators, HEbON Investigators, ABCTB Investigators, Isaacs, C., Iwasaki, M., Jager, A., Jakimovska, M., Jakubowska, A., James, P.A., Janavicius, R., Jankowitz, R.C., John, E.M., Johnson, N., Jones, M.E., Jukkola-Vuorinen, A., Jung, A., Kaaks, R., Kang, D., Kapoor, P.M., Karlan, B.Y., Keeman, R., Kerin, M.J., Khusnutdinova, E., Kiiski, J.I., Kirk, J., Kitahara, C.M., Ko, Y.D., Konstantopoulou, I., Kosma, V.M., Koutros, S., Kubelka-Sabit, K., Kwong, A., Kyriacou, K., Laitman, Y., Lambrechts, D., Lee, E., Leslie, G., Lester, J., Lesueur, F., Lindblom, A., Lo, W.Y., Long, J., Lophatananon, A., Loud, J.T., Lubinski, J., MacInnis, R.J., Maishman, T., Makalic, E., Mannermaa, A., Manoochhehi, M., Manoukian, S., Margolin, S., Martinez, M.E., Matsuo, K., Maurer, T., Mavroudis, D., Mayes, R., McGuffog, L., McLean, C., Mebirouk, N., Meindl, A., Miller, A., Miller, N., Montagna, M., Moreno, F., Muir, K., Mulligan, A.M., Munoz-Garzon, V.M., Muranen, T.A., Narod, S.A., Nassir, R., Nathanson, K.L., Neuhausen, S.L., Nevanlinna, H., Neven, P., Nielsen, F.C., Nikitina-Zake, L., Norman, A., Offit, K., Olah, E., Olopade, O.I., Olsson, H., Orr, N., Osorio, A., Pankratz, V.S., Papp, J., Park, S.K., Park-Simon, T.W., Parsons, M.T., Paul, J., Pedersen, I.S., Peissel, B., Peshkin, B., Peterlongo, P., Peto, J., Plaseska-Karanfilska, D., Prajzandanc, K., Prentice, R., Presneau, N., Prokofyeva, D., Pujana, M.A., Pylkas, K., Radice, P., Ramus, S.J., Rantala, J., Rau-Murthy, R., Rennert, G., Risch, H.A., Robson, M., Romero, A., Rossing, M., Saloustros, E., Sanchez-Herrero, E., Sandler, D.P., Santamarina, M., Saunders, C., Sawyer, E.J., Scheuner, M.T., Schmidt, D.F., Schmutzler, R.K., Schneeweiss, A., Schoemaker, M.J., Schottker, B., Schurmann, P., Scott, C., Scott, R.J., Senter, L., Seynaeve, C.M., Shah, M., Sharma, P., Shen, C.Y., Shu, X.O., Singer, C.F., Slavin, T.P., Smichkoska, S., Southey, M.C., Spinelli, J.J., Spurdle, A.B., Stone, J., Stoppa-Lyonnet, D., Sutter, C., Swerdlow, A.J., Tamimi, R.M., Tan, Y.Y., Tapper, W.J., Taylor, J.A., Teixeira, M.R., Tengstrom, M., Teo, S.H., Terry, M.B., Teule, A., Thomassen, M., Thull, D.L., Tischkowitz, M., Toland, A.E., Tollenaar, R.A.E.M., Tomlinson, I., Torres, D., Torres-Mejia, G., Troester, M.A., Truong, T., Tung, N., Tzardi, M., Ulmer, H.U., Vachon, C.M., van Asperen, C.J., van der Kolk, L.E., van Rensburg, E.J., Vega, A., Viel, A., Vijai, J., Vogel, M.J., Wang, Q., Wappenschmidt, B., Weinberg, C.R., Weitzel, J.N., Wendt, C., Wildiers, H., Winqvist, R., Wolk, A., Wu, A.H., Yannoukakis, D., Zhang, Y., Zheng, W., Hunter, D., Pharoah, P.D.P., Chang-Claude, J., Garcia-Closas, M., Schmidt, M.K., Milne, R.L., Kristensen, V.N., French, J.D., Edwards, S.L., Antoniou, A.C., Chenevix-Trench, G., Simard, J., Easton, D.F., Kraft, P., Dunning, A.M. (2020). Fine-mapping of 150 breast cancer risk regions identifies 191 likely target genes. *Nat Genet* 52,56-73. DOI: 10.1038/s41588-019-0537-1

Ganapathi, M., Argyriou, L., Martinez-Azorin, F., Morlot, S., Yigit, G., Lee, T.M., Auber, B., von Gise, A., Petrey, D.S., Thiele, H., Cyganek, L., Sabater-Molina, M., Ahimaz, P., Cabezas-Herrera, J., Sorli-Garcia, M., Zibat, A., Siegelin, M.D., Burfeind, P., Buchovecky, C.M., Hasenfuss, G., Honig, B., Li, Y., Iglesias, A.D., Wollnik, B. (2020). Bi-allelic missense disease-causing variants in RPL3L associate neonatal dilated cardiomyopathy with muscle-specific ribosome biogenesis *Hum Genet* 139,1443-1454. DOI: 10.1007/s00439-020-02188-6

Haake, K., Wüstefeld, T., Merkert, S., Lüttge, D., Göhring, G., Auber, B., Baumann, U., Lachmann, N. (2020). Human STAT1 gain-of-function iPSC line from a patient suffering from chronic mucocutaneous candidiasis *Stem Cell Res* 43,101713. DOI: 10.1016/j.scr.2020.101713

Hehlmann, R., Voskanyan, A., Lauseker, M., Pfirrmann, M., Kalmanti, L., Rinaldetti, S., Kohlbrenner, K., Haferlach, C., Schlegelberger, B., Fabarius, A., Seifarth, W., Spiess, B., Wuchter, P., Krause, S., Kolb, H.J., Neubauer, A., Hossfeld, D.K., Nerl, C., Gratwohl, A., Baerlocher, G.M., Burchert, A., Brümmendorf, T.H., Hasford, J., Hochhaus, A., Saussele, S., Baccarani, M., SAKK and the German CML Study Group. (2020). High-risk additional chromosomal abnormalities at low blast counts herald death by CML Leukemia 34,2074-2086. DOI: 10.1038/s41375-020-0826-9

Hoffmann, D., Kuehle, J., Lenz, D., Philipp, F., Zychlinski, D., Lachmann, N., Moritz, T., Steinemann, D., Morgan, M., Skokowa, J., Klein, C., Schambach, A. (2020). Lentiviral gene therapy and vitamin B3 treatment enable granulocytic differentiation of G6PC3-deficient induced pluripotent stem cells *Gene Ther* 27,297-306. DOI: 10.1038/s41434-020-0127-y

ICGC/TCGA Pan-Cancer Analysis of Whole Genomes Consortium. (2020). Pan-cancer analysis of whole genomes. *Nature* 578,82-93. DOI: 10.1038/s41586-020-1969-6

- Johansson, P., Dierichs, L., Klein-Hitpass, L., Bergmann, A.K., Möllmann, M., Menninger, S., Habenberger, P., Klebl, B., Siveke, J.T., Dührsen, U., Choidas, A., Dürig, J. (2020). Anti-leukemic effect of CDK9 inhibition in T-cell prolymphocytic leukemia *Ther Adv Hematol* 11, DOI: 10.1177/2040620720933761
- Jung, M., Schieck, M., Hofmann, W., Tauscher, M., Lentjes, J., Bergmann, A., Stelter, M., Mörcke, A., Alten, J., Schlegelberger, B., Schrappe, M., Zimmermann, M., Stanulla, M., Cario, G., Steinemann, D. (2020). Frequency and prognostic impact of PAX5 p.P80R in pediatric acute lymphoblastic leukemia patients treated on an AIEOP-BFM acute lymphoblastic leukemia protocol *Genes Chromosomes Cancer* 59,667-671. DOI: 10.1002/gcc.22882
- Kalasova, I., Hailstone, R., Bublitz, J., Bogantes, J., Hofmann, W., Leal, A., Hanzlikova, H., Caldecott, K.W. (2020). Pathological mutations in PNKP trigger defects in DNA single-strand break repair but not DNA double-strand break repair *Nucleic Acids Res* 48,6672-6684. DOI: 10.1093/nar/gkaa489
- Kapp-Schwoerer, S., Weber, D., Corbacioglu, A., Gaidzik, V.I., Paschka, P., Kronke, J., Theis, F., Rucker, F.G., Teleanu, M.V., Panina, E., Jahn, N., Herzig, J., Kubanek, L., Schrade, A., Göhring, G., Fiedler, W., Kindler, T., Schroeder, T., Mayer, K.T., Lübbert, M., Wattad, M., Gotze, K.S., Horst, H.A., Koller, E., Wulf, G., Schleicher, J., Bentz, M., Krauter, J., Bullinger, L., Krzykalla, J., Benner, A., Schlenk, R.F., Thol, F., Heuser, M., Ganser, A., Döhner, H., Döhner, K. (2020). Impact of gemtuzumab ozogamicin on MRD and relapse risk in patients with NPM1-mutated AML: results from the AMLSG 09-09 trial *Blood* 136,3041-3050. DOI: 10.1182/blood.2020005998
- Kattih, B., Shirvani, A., Klement, P., Garrido, A.M., Gabdoulline, R., Liebich, A., Brandes, M., Chaturvedi, A., Seeger, T., Thol, F., Göhring, G., Schlegelberger, B., Geffers, R., John, D., Bavendiek, U., Bauersachs, J., Ganser, A., Heineke, J., Heuser, M. (2021). IDH1/2 mutations in acute myeloid leukemia patients and risk of coronary artery disease and cardiac dysfunction—a retrospective propensity score analysis *Leukemia* 35,1301-1316. DOI: 10.1038/s41375-020-01043-x
- Kozyra, E.J., Pastor, V.B., Lefkopoulos, S., Sahoo, S.S., Busch, H., Voss, R.K., Erlacher, M., Lebrecht, D., Szvetnik, E.A., Hirabayashi, S., Pasauliene, R., Pedace, L., Tartaglia, M., Klemann, C., Metzger, P., Boerries, M., Catala, A., Hasle, H., de Haas, V., Kallay, K., Masetti, R., De Moerloose, B., Dworzak, M., Schmugge, M., Smith, O., Stary, J., Mejstrikova, E., Ussowicz, M., Morris, E., Singh, P., Collin, M., Derecka, M., Göhring, G., Flotho, C., Strahm, B., Locatelli, F., Niemeyer, C.M., Trompouki, E., Wlodarski, M.W., European Working Group of MDS in Childhood (EWOG-MDS). (2020). Synonymous GATA2 mutations result in selective loss of mutated RNA and are common in patients with GATA2 deficiency Leukemia 34,2673-2687. DOI: 10.1038/s41375-020-0899-5
- Li, C.H., Prokopec, S.D., Sun, R.X., Yousif, F., Schmitz, N., PCAWG Tumour Subtypes and Clinical Translation, Boutros, P.C., PCAWG Consortium. (2020). Sex differences in oncogenic mutational processes. *Nat Commun* 11,4330-020-17359-2. DOI: 10.1038/s41467-020-17359-2
- Martens, H., Hennies, I., Getwan, M., Christians, A., Weiss, A.C., Brand, F., Gjerstad, A.C., Christians, A., Gucev, Z., Geffers, R., Seeman, T., Kispert, A., Tasic, V., Bjerre, A., Lienkamp, S.S., Haffner, D., Weber, R.G. (2020). Rare heterozygous GDF6 variants in patients with renal anomalies *Eur J Hum Genet* 28,1681-1693. DOI: 10.1038/s41431-020-0678-9
- Merkert, S., Jaboreck, M.C., Engels, L., Malik, M.N.H., Göhring, G., Pessler, F., Martin, U., Olmer, R. (2021). Generation of two human ISG15 knockout iPSC clones using CRISPR/Cas9 editing *Stem Cell Res* 50,102135. DOI: 10.1016/j.scr.2020.102135
- Merkert, S., Schubert, M., Haase, A., Janssens, H.M., Scholte, B., Lachmann, N., Göhring, G., Martin, U. (2020). Generation of an induced pluripotent stem cell line (MHHi018-A) from a patient with Cystic Fibrosis carrying p.Asn1303Lys (N1303K) mutation. *Stem Cell Res* 44,101744. DOI: 10.1016/j.scr.2020.101744
- Nowak-Imialek, M., Wunderlich, S., Herrmann, D., Breitschuh-Leibling, S., Göhring, G., Petersen, B., Klein, S., Baulain, U., Lucas-Hahn, A., Martin, U., Niemann, H. (2020). In Vitro and In Vivo Interspecies Chimera Assay Using Early Pig Embryos Cell Reprogram 22,118-133. DOI: 10.1089/cell.2019.0107
- Osmanovic, A., Widjaja, M., Förster, A., Weder, J., Wattjes, M.P., Lange, I., Sarikidi, A., Auber, B., Raab, P., Christians, A., Preller, M., Petri, S., Weber, R.G. (2020). SPG7 mutations in amyotrophic lateral sclerosis: a genetic link to hereditary spastic paraplegia *J Neurol* 267,2732-2743. DOI: 10.1007/s00415-020-09861-w
- Radner, M., van Luttikhuisen, J.L., Bartels, S., Bublitz, J., Grote, I., Rieger, L., Christgen, H., Stark, H., Werlein, C., Lafos, M., Steinemann, D., Lehmann, U., Christgen, M., Kreipe, H. (2021). Chromosome 2q gain and epigenetic silencing of GATA3 in microglandular adenosis of the breast. *J Pathol Clin Res* 7,220-232. DOI: 10.1002/cjp.2.195
- Rio-Machin, A., Vulliamy, T., Hug, N., Walne, A., Tawana, K., Cardoso, S., Ellison, A., Pontikos, N., Wang, J., Tummala, H., Al Seraihi, A.F.H., Alnajar, J., Bewicke-Copley, F., Armes, H., Barnett, M., Bloor, A., Bödör, C., Bowen, D., Fenaux, P., Green, A., Hallahan, A., Hjorth-Hansen, H., Hossain, U., Killick, S., Lawson, S., Layton, M., Male, A.M., Marsh, J., Mehta, P., Mous, R., Nomdedeu, J.F., Owen, C., Pavlu, J., Payne, E.M., Protheroe, R.E., Preudhomme, C., Pujol-Moix, N., Renneville, A., Russell, N., Saggarr, A., Sciuccati, G., Taussig, D., Toze,

C.L., Uyttebroeck, A., Vandenbergh, P., Schlegelberger, B., Ripperger, T., Steinemann, D., Wu, J., Mason, J., Page, P., Akiki, S., Reay, K., Cavenagh, J.D., Plagnol, V., Caceres, J.F., Fitzgibbon, J., Dokal, I. (2020). The complex genetic landscape of familial MDS and AML reveals pathogenic germline variants *Nat Commun* 11,1044. DOI: 10.1038/s41467-020-14829-5

Sahabian, A., von Schlehdorn, L., Drick, N., Pink, I., Dahmann, J., Haase, A., Göhring, G., Welte, T., Martin, U., Ringshausen, F.C., Olmer, R. (2020). Generation of two hiPSC clones (MHHi019-A, MHHi019-B) from a primary ciliary dyskinesia patient carrying a homozygous deletion in the NME5 gene (c.415delA (p.Ile139Tyrfs*8)). *Stem Cell Res* 48,101988. DOI: 10.1016/j.scr.2020.101988

Schieck, M., Lentjes, J., Thomay, K., Hofmann, W., Behrens, Y.L., Hagedorn, M., Ebersold, J., Davenport, C.F., Fazio, G., Möricke, A., Buchmann, S., Alten, J., Cario, G., Schrappe, M., Bergmann, A.K., Stanulla, M., Steinemann, D., Schlegelberger, B., Cazzaniga, G., Göhring, G. (2020). Implementation of RNA sequencing and array CGH in the diagnostic workflow of the AIEOP-BFM ALL 2017 trial on acute lymphoblastic leukemia *Ann Hematol* 99,809-818. DOI: 10.1007/s00277-020-03953-3

Schleicher, S., Grote, S., Malenke, E., Chan, K.C., Schaller, M., Fehrenbacher, B., Riester, R., Kluba, T., Frauenfeld, L., Boesmueller, H., Göhring, G., Schlegelberger, B., Handgretinger, R., Kopp, H.G., Traub, F., Boehme, K.A. (2020). Establishment and Characterization of a Sclerosing Spindle Cell Rhabdomyosarcoma Cell Line with a Complex Genomic Profile *Cells* 9,DOI: 10.3390/cells9122668

Yang, X., Song, H., Leslie, G., Engel, C., Hahnen, E., Auber, B., Horvath, J., Kast, K., Niederacher, D., Turnbull, C., Houlston, R., Hanson, H., Loveday, C., Dolinsky, J.S., LaDuca, H., Ramus, S.J., Menon, U., Rosenthal, A.N., Jacobs, I., Gayther, S.A., Dicks, E., Nevanlinna, H., Aittomäki, K., Peltari, L.M., Ehrencrona, H., Borg, A., Kvist, A., Rivera, B., Hansen, T.V.O., Djursby, M., Lee, A., Dennis, J., Bowtell, D.D., Traficante, N., Diez, O., Balmana, J., Gruber, S.B., Chenevix-Trench, G., Investigators, K., Jensen, A., Kjaer, S.K., Hogdall, E., Castera, L., Garber, J., Janavicius, R., Osorio, A., Golmard, L., Vega, A., Couch, F.J., Robson, M., Gronwald, J., Domchek, S.M., Culver, J.O., de la Hoya, M., Easton, D.F., Foulkes, W.D., Tischkowitz, M., Meindl, A., Schmutzler, R.K., Pharoah, P.D.P., Antoniou, A.C. (2020). Ovarian and Breast Cancer Risks Associated With Pathogenic Variants in RAD51C and RAD51D *J Natl Cancer Inst* 112,1242-1250. DOI: 10.1093/jnci/djaa030

Leitlinien von Fachgesellschaften

Wappenschmidt, B., Hauke, J., Faust, U., Niederacher, D., Wiesmüller, L., Schmidt, G., Gross, E., Gehrig, A., Sutter, C., Ramser, J., Rump, A., Arnold, N., Meindl, A. (2020). Criteria of the German Consortium for Hereditary Breast and Ovarian Cancer for the Classification of Germline Sequence Variants in Risk Genes for Hereditary Breast and Ovarian Cancer *Geburtshilfe Frauenheilkd* 80,410-429. DOI: 10.1055/a-1110-0909

Übersichtsarbeiten

Hettmer, S., Dachy, G., Seitz, G., Agaimy, A., Duncan, C., Jongmans, M., Hirsch, S., Kventsel, I., Kordes, U., de Krijger, R.R., Metzler, M., Michaeli, O., Nemes, K., Poluha, A., Ripperger, T., Russo, A., Smetsers, S., Sparber-Sauer, M., Stutz, E., Bourdeaut, F., Kratz, C.P., Demoulin, J.B. (2021). Genetic testing and surveillance in infantile myofibromatosis: a report from the SIOPE Host Genome Working Group *Fam Cancer* 20,327-336. DOI: 10.1007/s10689-020-00204-2

Letter

von Hardenberg, S., Richter, M.F., Hethey, S., Yaspo, M.L., Auber, B., Schlegelberger, B., Illig, T., Guthmann, F., Christen, H.J., Ripperger, T., Bergmann, A.K. (2020). Rational therapy with vigabatrin and a ketogenic diet in a patient with GAD1 deficiency *Brain* 143,e91. DOI: 10.1093/brain/awaa289

Case reports

Pongpamorn, P., Dahmann, J., Haase, A., Ebeling, C.T., Merkert, S., Göhring, G., Lachmann, N., Martens, A., Haverich, A., Martin, U., Olmer, R. (2020). Generation of three induced pluripotent stem cell lines (MHHi012-A, MHHi013-A, MHHi014-A) from a family with Loey-Dietz syndrome carrying a heterozygous p.M253I (c.759G>A) mutation in the TGFBR1 gene. *Stem Cell Res* 43,101707. DOI: 10.1016/j.scr.2020.101707

Schünemann, C., Göhring, G., Behrens, Y.L., Kreipe, H.H., Ganser, A., Thol, F. (2020). Histiocytic sarcoma progressing from follicular lymphoma and mimicking acquired hemophagocytic lymphohistiocytosis *Ann Hematol* 99,2441-2443. DOI: 10.1007/s00277-020-04190-4

Buchbeiträge, Monografien

Glowacka, I. (2020). Flaviviren. In: *Medizinische Mikrobiologie und Infektiologie*, Suerbaum S., eds. (Berlin: Springer) pp. 607-616

Glowacka, I., Müller, T. (2020). Tollwutvirus. In: *Medizinische Mikrobiologie und Infektiologie*, Suerbaum S., eds. (Berlin: Springer) pp. 647-651

Abstracts

Landgraf, C., von Hardenberg, S., Lesinski-Schiedat, A., Büchner, A., Schlegelberger, B., Auber, B. (2020). Causes of congenital hearing loss and cochlear implant outcome. *Eur J Hum Genet* 28,188-189.

Promotionen

Huge, N. (2019). Funktionelle Konsequenzen der veränderten microRNA-Expression nach HDAC-Inhibition durch Vorinostat und Romidepsin im hepatozellulären Karzinom Dissertation, Medizinische Hochschule Hannover, 2020

Martens, J.H. (2020). Identifizierung von neuen mit Fehlbildungen der Nieren und ableitenden Harnwege assoziierten Genen mittels Exomsequenzierung und Charakterisierung im Zell- und Tiermodell. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Penkert, J.R. (2019). Pathogenic germline aberrations in TP53 and BRCA12-negative breast cancer patients suggestive of Li-Fraumeni syndrome. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Rangnau, I. (2020). Analyse und Validierung von Next Generation Sequencing Daten zur Identifikation und Translation genetischer Risikofaktoren der Amyotrophen Lateralsklerose. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

van Luttkhuizen, J.L. (2020). Genetics of breast cancer the identification of germline and somatic variants driving tumorigenesis. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Institut für Pathologie – 5110

Originalpublikationen

Ackermann, M., Haake, K., Kempf, H., Kaschutnig, P., Weiss, A.C., Nguyen, A.H.H., Abeln, M., Merkert, S., Kühnel, M.P., Hartmann, D., Jonigk, D., Thum, T., Kispert, A., Milsom, M.D., Lachmann, N. (2021). A 3D iPSC-differentiation model identifies interleukin-3 as a regulator of early human hematopoietic specification *Haematologica* 106,1354-1367. DOI: 10.3324/haematol.2019.228064

Ackermann, M., Verleden, S.E., Kuehnel, M., Haverich, A., Welte, T., Laenger, F., Vanstapel, A., Werlein, C., Stark, H., Tzankov, A., Li, W.W., Li, V.W., Mentzer, S.J., Jonigk, D. (2020). Pulmonary Vascular Endothelialitis, Thrombosis, and Angiogenesis in Covid-19. *N Engl J Med* 383,120-128. DOI: 10.1056/NEJMoa2015432

Adam, B.A., Kikic, Z., Wagner, S., Bouatou, Y., Gueguen, J., Drieux, F., Reid, G., Du, K., Bräsen, J.H., D'Agati, V.D., Drachenberg, C.B., Farkash, E.A., Brad Farris, A., Geldenhuys, L., Loupy, A., Nickleit, V., Rabant, M., Randhawa, P., Regele, H., Mengel, M. (2020). Intragraft gene expression in native kidney BK virus nephropathy versus T cell-mediated rejection: Prospects for molecular diagnosis and risk prediction. *Am J Transplant* 20,3486-3501. DOI: 10.1111/ajt.15980

Banan, R., Stichel, D., Bleck, A., Hong, B., Lehmann, U., Suwala, A., Reinhardt, A., Schrimpf, D., Buslei, R., Stadelmann, C., Ehlert, K., Prinz, M., Acker, T., Schittenhelm, J., Kaul, D., Schweizer, L., Capper, D., Harter, P.N., Etminan, N., Jones, D.T.W., Pfister, S.M., Herold-Mende, C., Wick, W., Sahm, F., von Deimling, A., Hartmann, C., Reuss, D.E. (2020). Infratentorial IDH-mutant astrocytoma is a distinct subtype *Acta Neuropathol* 140,569-581. DOI: 10.1007/s00401-020-02194-y

Bartels, S., Hasemeier, B., Vogtmann, J., Schipper, E., Büsche, G., Schlue, J., Kreipe, H., Lehmann, U. (2020). Feasibility of Combined Detection of Gene Mutations and Fusion Transcripts in Bone Marrow Trepshines from Leukemic Neoplasms *J Mol Diagn* 22,591-598. DOI: 10.1016/j.jmoldx.2020.01.004

Behling, F., Barrantes-Freer, A., Behnes, C.L., Stockhammer, F., Rohde, V., Adel-Horowski, A., Rodriguez-Villagra, O.A., Barboza, M.A., Brück, W., Lehmann, U., Stadelmann, C., Hartmann, C. (2020). Expression of Olig2, Nestin, NogoA and AQP4 have no impact on overall survival in IDH-wildtype glioblastoma *PLoS One* 15,e0229274. DOI: 10.1371/journal.pone.0229274

Bojkova, D., Bechtel, M., McLaughlin, K.M., McGreig, J.E., Klann, K., Bellinghausen, C., Rohde, G., Jonigk, D., Braubach, P., Ciesek, S., Münch, C., Wass, M.N., Michaelis, M., Cinatl, J., Jr. (2020). Aprotinin Inhibits SARS-CoV-2 Replication *Cells* 9,2377. DOI: 10.3390/cells9112377

Bormann, T., Maus, R., Stolper, J., Jonigk, D., Welte, T., Gaudie, J., Kolb, M.R., Maus, U.A. (2021). Role of the COX2-PGE2 axis in S. pneumoniae induced exacerbation of experimental fibrosis. *Am J Physiol Lung Cell Mol Physiol* 320,L377-L392. DOI: 10.1152/ajplung.00024.2020

Buitrago-Molina, L.E., Pietrek, J., Noyan, F., Schlue, J., Manns, M.P., Wedemeyer, H., Hardtke-Wolenski, M., Jaeckel, E. (2020). Treg-specific IL-2 therapy can reestablish intrahepatic immune regulation in autoimmune hepatitis. *J Autoimmun* 117,DOI: 10.1016/j.jaut.2020.102591

- Calabrese, F., Schiavon, M., Perissinotto, E., Lunardi, F., Marulli, G., Di Gregorio, G., Pezzuto, F., Edith Vuljan, S., Forin, E., Wiegmann, B., Jonigk, D., Warnecke, G., Rea, F. (2020). Organ Care System Lung resulted in lower apoptosis and iNOS expression in donor lungs. *Am J Transplant* *20*,3639-3648. DOI: 10.1111/ajt.16187
- Christgen, M., Bartels, S., van Luttkhuizen, J.L., Bublitz, J., Rieger, L.U., Christgen, H., Stark, H., Sander, B., Lehmann, U., Steinemann, D., Derksen, P.W.B., Kreipe, H. (2020). E-cadherin to P-cadherin switching in lobular breast cancer with tubular elements *Mod Pathol* *33*,2483-2498. DOI: 10.1038/s41379-020-0591-3
- Christgen, M., Gluz, O., Harbeck, N., Kates, R.E., Raap, M., Christgen, H., Clemens, M., Malter, W., Nuding, B., Aktas, B., Kuemmel, S., Reimer, T., Stefek, A., Krabisch, P., Just, M., Augustin, D., Graeser, M., Baehner, F., Wuerstlein, R., Nitz, U., Kreipe, H., West German Study Group PlanB Investigators. (2020). Differential impact of prognostic parameters in hormone receptor-positive lobular breast cancer *Cancer* *126*,4847-4858. DOI: 10.1002/cncr.33104
- Danov, O., Wolff, M., Bartel, S., Böhlen, S., Obernolte, H., Wronski, S., Jonigk, D., Hammer, B., Kovacevic, D., Reuter, S., Krauss-Etschmann, S., Sewald, K. (2020). Cigarette Smoke Affects Dendritic Cell Populations, Epithelial Barrier Function, and the Immune Response to Viral Infection With H1N1 *Front Med (Lausanne)* *7*,571003. DOI: 10.3389/fmed.2020.571003
- Derlin, T., Jaeger, B., Jonigk, D., Apel, R., Freise, J., Shin, H.O., Weiberg, D., Warnecke, G., Ross, T.L., Wester, H.J., Seeliger, B., Welte, T., Bengel, F.M., Prasse, A. (2021). Clinical Molecular Imaging of Pulmonary CXCR4 Expression to Predict Outcome of Pirfenidone Treatment in Idiopathic Pulmonary Fibrosis *Chest* *159*,1094-1106. DOI: 10.1016/j.chest.2020.08.2043
- Derlin, T., Werner, R.A., Lafos, M., Henkenberens, C., von Klot, C.A.J., Sommerlath Sohns, J.M., Ross, T.L., Bengel, F.M. (2020). Neuroendocrine Differentiation and Response to PSMA-Targeted Radioligand Therapy in Advanced Metastatic Castration-Resistant Prostate Cancer: A Single-Center Retrospective Study *J Nucl Med* *61*,1602-1606. DOI: 10.2967/jnumed.120.241588
- Donnerstag, F., Götz, F., Dadak, M., Raab, P., Iglesias, E.C., Werlein, C., Lanfermann, H., Jonigk, D. (2021). Interventional stroke treatment - Is it also safe for arteries? Looking at thrombectomy wall damage through clot histology. *Interv Neuroradiol* *27*,404-410. DOI: 10.1177/1591019920976673
- Donnert, M., Elsheikh, S., Arce-Rodriguez, A., Pawar, V., Braubach, P., Jonigk, D., Haverich, A., Weiss, S., Müsken, M., Häussler, S. (2020). Targeting bioenergetics is key to counteracting the drug-tolerant state of biofilm-grown bacteria *PLoS Pathog* *16*,e1009126. DOI: 10.1371/journal.ppat.1009126
- Eckermann, M., Frohn, J., Reichardt, M., Osterhoff, M., Sprung, M., Westermeier, F., Tzankov, A., Werlein, C., Kuhnel, M., Jonigk, D., Sal-ditt, T. (2020). 3D virtual pathohistology of lung tissue from Covid-19 patients based on phase contrast X-ray tomography. *Elife* *9*,eLife.60408. DOI: 10.7554/eLife.60408
- Feist, H., Hussein, K., Stucki-Koch, A., Wohlschlaeger, J., Hager, T., Blöcker, T., Heim, A. (2020). Villitis of unknown etiology and chronic deciduitis are not associated with human papilloma virus and enterovirus infection. *Virchows Arch* *477*,73-81. DOI: 10.1007/s00428-020-02765-0
- Gleitz, H.F.E., Dugourd, A.J.F., Leimkühler, N.B., Snoeren, I.A.M., Fuchs, S.N.R., Menzel, S., Ziegler, S., Kröger, N., Trivai, I., Büsche, G., Kreipe, H., Banjanin, B., Pritchard, J.E., Hoogenboezem, R., Bindels, E.M., Schumacher, N., Rose-John, S., Elf, S., Saez-Rodriguez, J., Kra-mann, R., Schneider, R.K. (2020). Increased CXCL4 expression in hematopoietic cells links inflammation and progression of bone marrow fibrosis in MPN *Blood* *136*,2051-2064. DOI: 10.1182/blood.2019004095
- Greite, R., Derlin, K., Hensen, B., Thorenz, A., Rong, S., Chen, R., Hellms, S., Jang, M.S., Bräsen, J.H., Meier, M., Willenberg, I., Im-menschuh, S., Haller, H., Luft, F.C., Panigrahy, D., Hwang, S.H., Hammock, B.D., Schebb, N.H., Gueler, F. (2020). Early antihypertensive treatment and ischemia-induced acute kidney injury. *Am J Physiol Renal Physiol* *319*,F563-F570. DOI: 10.1152/ajprenal.00078.2020
- Greunz, E.M., Lemberger, K., Catinaud, J., Chenet, B., Linke, R.P., Bräsen, J.H., Schmitz, J., Bertelsen, M.F. (2020). Amyloidosis in Caracals (Caracal Caracal). *J Zoo Wildl Med* *51*,202-209. DOI: 10.1638/2019-0005
- Haake, K., Neehus, A.L., Buchegger, T., Kühnel, M.P., Blank, P., Philipp, F., Oleaga-Quintas, C., Schulz, A., Grimley, M., Goethe, R., Jo-nigk, D., Kalinke, U., Boisson-Dupuis, S., Casanova, J.L., Bustamante, J., Lachmann, N. (2020). Patient iPSC-Derived Macrophages to Study Inborn Errors of the IFN-gamma Responsive Pathway Cells *9*. DOI: 10.3390/cells9020483
- Hack, T., Bertram, S., Blair, H., Börger, V., Büsche, G., Denson, L., Fruth, E., Giebel, B., Heidenreich, O., Klein-Hitpass, L., Kollipara, L., Sendker, S., Sickmann, A., Walter, C., von Neuhoff, N., Hanenberg, H., Reinhardt, D., Schneider, M., Rasche, M. (2020). Exposure of Pa-tient-Derived Mesenchymal Stromal Cells to TGFβ1 Supports Fibrosis Induction in a Pediatric Acute Megakaryoblastic Leukemia Model *Mol Cancer Res* *18*,1603-1612. DOI: 10.1158/1541-7786.MCR-20-0091

- Hacker, K.S., Jansson, K., Pichler, J., Salman, J., Avsar, M., Siemeni, T., Knöfel, A.K., Hoffler, K., Gottlieb, J., Frühauf, J., Werner, M., Poyanmehr, R., Jonigk, D., Balzer, M.S., Hewicker-Trautwein, M., Haverich, A., Sommer, W., Warnecke, G. (2021). Delayed non-myeloablative irradiation to induce long-term allograft acceptance in a large animal lung transplantation model. *Transpl Immunol* *65*,101350. DOI: 10.1016/j.trim.2020.101350
- Hagner, M., Albrecht, M., Guerra, M., Braubach, P., Halle, O., Zhou-Suckow, Z., Butz, S., Jonigk, D., Hansen, G., Schultz, C., Dittrich, A.M., Mall, M.A. (2021). IL-17A from innate and adaptive lymphocytes contributes to inflammation and damage in cystic fibrosis lung disease. *Eur Respir J* *57*,1900716. DOI: 10.1183/13993003.00716-2019
- Höfer, A., Jonigk, D., Hartleben, B., Verboom, M., Hallensleben, M., Manns, M.P., Jaeckel, E., Taubert, R. (2020). Non-invasive screening for subclinical liver graft injury in adults via donor-specific anti-HLA antibodies. *Sci Rep* *10*,14242. DOI: 10.1038/s41598-020-70938-7
- Hofman, P., Ilie, M., Chamorey, E., Brest, P., Schiappa, R., Nakache, V., Antoine, M., Barberis, M., Begueret, H., Bibeau, F., Bonnetaud, C., Bostrom, P., Brousset, P., Bubendorf, L., Carvalho, L., Cathomas, G., Cazes, A., Chalabreysse, L., Chenard, M.P., Copin, M.C., Cote, J.F., Damotte, D., de Leval, L., Delongova, P., Thomas de Montpreville, V., de Muret, A., Dema, A., Dietmaier, W., Evert, M., Fabre, A., Forest, F., Foulet, A., Garcia, S., Garcia-Martos, M., Gibault, L., Gorkiewicz, G., Jonigk, D., Gosney, J., Hofman, A., Kern, I., Kerr, K., Kossai, M., Kriegsmann, M., Lassalle, S., Long-Mira, E., Lupo, A., Mamilos, A., Matej, R., Meilleroux, J., Ortiz-Villalon, C., Panico, L., Panizo, A., Papotti, M., Pauwels, P., Pelosi, G., Penault-Llorca, F., Pop, O., Pote, N., Cajal, S.R.Y., Sabourin, J.C., Salmon, I., Sajin, M., Savic-Prince, S., Schildhaus, H.U., Schirmacher, P., Serre, I., Shaw, E., Sizaret, D., Stenzinger, A., Stojisic, J., Thunnissen, E., Timens, W., Troncone, G., Werlein, C., Wolff, H., Berthet, J.P., Benzaquen, J., Marquette, C.H., Hofman, V., Calabrese, F. (2021). Clinical and molecular practice of European thoracic pathology laboratories during the COVID-19 pandemic. The past and the near future. *ESMO Open* *6*,100024. DOI: 10.1016/j.esmoop.2020.100024
- Jayaprakash, S., Le, L.T.M., Sander, B., Golas, M.M. (2021). Expression of the Neural REST/NRSF-SIN3 Transcriptional Corepressor Complex as a Target for Small-Molecule Inhibitors. *Mol Biotechnol* *63*,53-62. DOI: 10.1007/s12033-020-00283-7
- Kanzelmeyer, N.K., Lerch, C., Ahlenstiel-Grunow, T., Bräsen, J.H., Haffner, D., Pape, L. (2020). The role of protocol biopsies after pediatric kidney transplantation *Medicine (Baltimore)* *99*,e20522. DOI: 10.1097/MD.00000000000020522
- Kim, E.L., Sorokin, M., Kantelhardt, S.R., Kalasauskas, D., Sprang, B., Fauss, J., Ringel, F., Garazha, A., Albert, E., Gaifullin, N., Hartmann, C., Naumann, N., Bikar, S.E., Giese, A., Buzdin, A. (2020). Intratumoral Heterogeneity and Longitudinal Changes in Gene Expression Predict Differential Drug Sensitivity in Newly Diagnosed and Recurrent Glioblastoma Cancers (Basel) *12*,DOI: 10.3390/cancers12020520
- Kirchner, M., Glade, J., Lehmann, U., Merkelbach-Bruse, S., Hummel, M., Lehmann, A., Trautmann, M., Kumbrink, J., Jung, A., Dietmaier, W., Endris, V., Kazdal, D., Ploeger, C., Evert, M., Horst, D., Kreipe, H., Kirchner, T., Wardelmann, E., Büttner, R., Weichert, W., Dietel, M., Schirmacher, P., Stenzinger, A., Pfarr, N. (2020). NTRK testing: First results of the QuiP-EQA scheme and a comprehensive map of NTRK fusion variants and their diagnostic coverage by targeted RNA-based NGS assays *Genes Chromosomes Cancer* *59*,445-453. DOI: 10.1002/gcc.22853
- Kolberg-Liedtke, C., Gluz, O., Heinisch, F., Feuerhake, F., Kreipe, H., Clemens, M., Nuding, B., Malter, W., Reimer, T., Wuerstlein, R., Graeser, M., Shak, S., Nitz, U., Kates, R., Christgen, M., Harbeck, N. (2020). Association of TILs with clinical parameters, Recurrence Score(R) results, and prognosis in patients with early HER2-negative breast cancer (BC)-a translational analysis of the prospective WSG PlanB trial *Breast Cancer Res* *22*,47. DOI: 10.1186/s13058-020-01283-w
- Kommos, F.K.F., Schwab, C., Tavernar, L., Schreck, J., Wagner, W.L., Merle, U., Jonigk, D., Schirmacher, P., Longerich, T. (2020). The Pathology of Severe COVID-19-Related Lung Damage *Dtsch Arztebl Int* *117*,500-506. DOI: 10.3238/arztebl.2020.0500
- Kreimann, K., Jang, M.S., Rong, S., Greite, R., von Vietinghoff, S., Schmitt, R., Bräsen, J.H., Schiffer, L., Gerstenberg, J., Vijayan, V., Dittrich-Breiholz, O., Wang, L., Karsten, C.M., Gwinner, W., Haller, H., Immenschuh, S., Gueler, F. (2020). Ischemia Reperfusion Injury Triggers CXCL13 Release and B-Cell Recruitment After Allogenic Kidney Transplantation *Front Immunol* *11*,DOI: 10.3389/fimmu.2020.01204
- Leimkühler, N.B., Gleitz, H.F.E., Ronghui, L., Snoeren, I.A.M., Fuchs, S.N.R., Nagai, J.S., Banjanin, B., Lam, K.H., Vogl, T., Kuppe, C., Stalman, U.S.A., Büsche, G., Kreipe, H., Gütgemann, I., Krebs, P., Banz, Y., Boor, P., Tai, E.W., Brümmendorf, T.H., Koschmieder, S., Crysandt, M., Bindels, E., Kramann, R., Costa, I.G., Schneider, R.K. (2021). Heterogeneous bone-marrow stromal progenitors drive myelofibrosis via a druggable alarmin axis *Cell Stem Cell* *28*,637-652.e8. DOI: 10.1016/j.stem.2020.11.004
- Mayer, U., Schmitz, J., Bräsen, J.H., Pape, L. (2020). Crescentic glomerulonephritis in children. *Pediatr Nephrol* *35*,829-842. DOI: 10.1007/s00467-019-04436-y
- Mederacke, Y.S., Nienen, M., Jarek, M., Geffers, R., Hupa-Breier, K., Babel, N., Reinke, P., Mederacke, I., Rudolf Vondran, F.W., Jonigk, D., Wedemeyer, H., Jaeckel, E. (2021). T cell receptor repertoires within liver allografts are different to those in the peripheral blood *J Hepatol* *74*,1167-1175. DOI: 10.1016/j.jhep.2020.12.014

Mund, E., Salem, J., Kreipe, H.H., Hussein, K. (2020).Clinically latent and autopsy-verified inflammatory disorders and malignant tumours in transplant patients. *J Clin Pathol* DOI: 10.1136/jclinpath-2020-207080

Mynarek, M., von Hoff, K., Pietsch, T., Ottensmeier, H., Warmuth-Metz, M., Bison, B., Pfister, S., Korshunov, A., Sharma, T., Jaeger, N., Ryzhova, M., Zheludkova, O., Golanov, A., Rushing, E.J., Hasselblatt, M., Koch, A., Schüller, U., von Deimling, A., Sahm, F., Sill, M., Riemenschneider, M.J., Dohmen, H., Monoranu, C.M., Sommer, C., Staszewski, O., Mawrin, C., Schittenhelm, J., Brück, W., Filipiński, K., Hartmann, C., Meinhardt, M., Pietschmann, K., Haberler, C., Slavc, I., Gerber, N.U., Grotzer, M., Benesch, M., Schlegel, P.G., Deinlein, F., von Bueren, A.O., Friedrich, C., Juhnke, B.O., Obrecht, D., Fleischhack, G., Kwicień, R., Faldum, A., Kortmann, R.D., Kool, M., Rutkowski, S. (2020).Nonmetastatic Medulloblastoma of Early Childhood: Results From the Prospective Clinical Trial HIT-2000 and An Extended Validation Cohort *J Clin Oncol* 38:2028-2040. DOI: 10.1200/JCO.19.03057

Neubert, L., Borchert, P., Stark, H., Hoefler, A., Vogel-Claussen, J., Warnecke, G., Eubel, H., Kuenzler, P., Kreipe, H.H., Hoepfer, M.M., Kuehnel, M., Jonigk, D. (2020).Molecular Profiling of Vascular Remodeling in Chronic Pulmonary Disease. *Am J Pathol* 190:1382-1396. DOI: 10.1016/j.ajpath.2020.03.008

Nitz, U., Gluz, O., Kreipe, H.H., Christgen, M., Kuemmel, S., Baehner, F.L., Shak, S., Aktas, B., Braun, M., Lüdtke-Heckenkamp, K., Forstbauer, H., Grischke, E.M., Nuding, B., Darsow, M., Schumacher, C., Krauss, K., Malter, W., Thill, M., Warm, M., Wuerstlein, R., Kates, R.E., Harbeck, N. (2020).The run-in phase of the prospective WSG-ADAPT HR+/HER2- trial demonstrates the feasibility of a study design combining static and dynamic biomarker assessments for individualized therapy in early breast cancer *Ther Adv Med Oncol* 12:DOI: 10.1177/1758835920973130

Noske, A., Ammann, J.U., Wagner, D.C., Denkert, C., Lebeau, A., Sinn, P., Kreipe, H.H., Sommer, U., Baretton, G., Steiger, K., Kiechle, M., Hieke-Schulz, S., Flores, M., Roth, W., Weichert, W. (2021).A multicentre analytical comparison study of inter-reader and inter-assay agreement of four programmed death-ligand 1 immunohistochemistry assays for scoring in triple-negative breast cancer *Histopathology* 78:567-577. DOI: 10.1111/his.14254

Radner, M., van Luttikhuisen, J.L., Bartels, S., Bubltz, J., Grote, I., Rieger, L., Christgen, H., Stark, H., Werlein, C., Lafos, M., Steinemann, D., Lehmann, U., Christgen, M., Kreipe, H. (2021).Chromosome 2q gain and epigenetic silencing of GATA3 in microglandular adenosis of the breast. *J Pathol Clin Res* 7:220-232. DOI: 10.1002/cjp2.195

Reifenrath, J., Janssen, H.C., Warwas, D.P., Kietzmann, M., Behrens, P., Willbold, E., Fedchenko, M., Angrisani, N. (2020).Implant-based direction of magnetic nanoporous silica nanoparticles - influence of macrophage depletion and infection *Nanomedicine* 30:102289. DOI: 10.1016/j.nano.2020.102289

Roy-Chowdhury, E., Brauns, N., Helmke, A., Nordlohne, J., Bräsen, J.H., Schmitz, J., Volkmann, J., Fleig, S.V., Kusche-Vihrog, K., Haller, H., von Vietinghoff, S. (2020).Human CD16+ monocytes promote a pro-atherosclerotic endothelial cell phenotype via CX3CR1-CX3CL1 interaction. *Cardiovasc Res* cvaa234. DOI: 10.1093/cvr/cvaa234

Schaadt, N.S., Schönmeier, R., Forestier, G., Brieu, N., Braubach, P., Nekolla, K., Meyer-Hermann, M., Feuerhake, F. (2020).Graph-based description of tertiary lymphoid organs at single-cell level. *PLoS Comput Biol* 16:e1007385. DOI: 10.1371/journal.pcbi.1007385

Schimmel, K., Jung, M., Foinquinos, A., Jose, G.S., Beaumont, J., Bock, K., Grote-Levi, L., Xiao, K., Bär, C., Pfanne, A., Just, A., Zimmer, K., Ngoy, S., Lopez, B., Ravassa, S., Samolovac, S., Janssen-Peters, H., Remke, J., Scherf, K., Dangwal, S., Piccoli, M.T., Kleemiss, F., Kreutzer, F.P., Kenneweg, F., Leonardy, J., Hobuss, L., Santer, L., Do, Q.T., Geffers, R., Braesen, J.H., Schmitz, J., Brandenberger, C., Muller, D.N., Wilck, N., Kaever, V., Bahre, H., Batkai, S., Fiedler, J., Alexander, K.M., Wertheim, B.M., Fisch, S., Liao, R., Diez, J., Gonzalez, A., Thum, T. (2020).Natural Compound Library Screening Identifies New Molecules for the Treatment of Cardiac Fibrosis and Diastolic Dysfunction. *Circulation* 141:751-767. DOI: 10.1161/CIRCULATIONAHA.119.042559

Schirmer, B., Rother, T., Bruesch, I., Bleich, A., Werlein, C., Jonigk, D., Seifert, R., Neumann, D. (2020).Genetic Deficiency of the Histamine H4-Receptor Reduces Experimental Colorectal Carcinogenesis in Mice. *Cancers (Basel)* 12:E912 [pii]. DOI: 10.3390/cancers12040912

Schweizer, L., Thierfelder, F., Thomas, C., Soschinski, P., Suwala, A., Stichel, D., Wefers, A.K., Wessels, L., Misch, M., Kim, H.Y., Jödicke, R., Teichmann, D., Kaul, D., Kahn, J., Bockmayr, M., Hasselblatt, M., Younsi, A., Unterberg, A., Knie, B., Walter, J., Al Safatli, D., May, S.A., Jödicke, A., Ntoulas, G., Moskopp, D., Vajkoczy, P., Heppner, F.L., Capper, D., Hartmann, W., Hartmann, C., von Deimling, A., Reuss, D.E., Schöler, A., Koch, A. (2020).Molecular characterization of CNS paragangliomas identifies cauda equina paragangliomas as a distinct tumor entity *Acta Neuropathol* 140:893-906. DOI: 10.1007/s00401-020-02218-7

Sen, P., Helmke, A., Liao, C.M., Sorensen-Zender, I., Rong, S., Bräsen, J.H., Melk, A., Haller, H., von Vietinghoff, S., Schmitt, R. (2020).SerpinB2 Regulates Immune Response in Kidney Injury and Aging. *J Am Soc Nephrol* 31:983-995. DOI: 10.1681/ASN.2019101085

- Serth, J., Peters, I., Dubrowinskaja, N., Reese, C., Albrecht, K., Klintschar, M., Lafos, M., Grote, A., Becker, A., Hennenlotter, J., Stenzl, A., Tezval, H., Kuczyk, M.A. (2020). Age-, tumor-, and metastatic tissue-associated DNA hypermethylation of a T-box brain 1 locus in human kidney tissue. *Clin Epigenetics* *12*,33. DOI: 10.1186/s13148-020-0823-x
- Sievers, P., Sill, M., Blume, C., Tauziède-Espariat, A., Schrimpf, D., Stichel, D., Reuss, D.E., Dogan, H., Hartmann, C., Mawrin, C., Hasselblatt, M., Stummer, W., Schick, U., Hench, J., Frank, S., Ketter, R., Schweizer, L., Schittenhelm, J., Puget, S., Brandner, S., Jaunmuktane, Z., Küsters, B., Abdullaev, Z., Pekmezci, M., Snuderl, M., Ratliff, M., Herold-Mende, C., Unterberg, A., Aldape, K., Ellison, D.W., Wesseling, P., Reifenberger, G., Wick, W., Perry, A., Varlet, P., Pfister, S.M., Jones, D.T.W., von Deimling, A., Sahm, F., German Consortium "Aggressive Meningiomas". (2021). Clear cell meningiomas are defined by a highly distinct DNA methylation profile and mutations in SMARCE1 *Acta Neuropathol* *141*,281-290. DOI: 10.1007/s00401-020-02247-2
- Sieweke, J.T., Akin, M., Stetskamp, S., Riehle, C., Jonigk, D., Flierl, U., Pfeffer, T.J., Hirsch, V., Dutzmann, J., Hoepfer, M.M., Kühn, C., Bauersachs, J., Schäfer, A. (2020). Mechanical circulatory support in refractory cardiogenic shock due to influenza virus-related myocarditis *Eur Respir J* *56*,2000925. DOI: 10.1183/13993003.00925-2020
- Slabik, C., Kalbarczyk, M., Danisch, S., Zeidler, R., Klawonn, F., Volk, V., Krönke, N., Feuerhake, F., Ferreira de Figueiredo, C., Blasczyk, R., Olbrich, H., Theobald, S.J., Schneider, A., Ganser, A., von Kaisenberg, C., Lienenklaus, S., Bleich, A., Hammerschmidt, W., Stripecke, R. (2020). CAR-T Cells Targeting Epstein-Barr Virus gp350 Validated in a Humanized Mouse Model of EBV Infection and Lymphoproliferative Disease *Mol Ther Oncolytics* *18*,504-524. DOI: 10.1016/j.omto.2020.08.005
- Stauss, R.D., Grosse, G.M., Neubert, L., Falk, C.S., Jonigk, D., Kühnel, M.P., Gabriel, M.M., Schuppner, R., Lichtinghagen, R., Wilhelmi, M., Weissenborn, K., Schrimpf, C. (2020). Distinct systemic cytokine networks in symptomatic and asymptomatic carotid stenosis. *Sci Rep* *10*,21963. DOI: 10.1038/s41598-020-78941-8
- Struck, A.K., Klotz, D., Hülskötter, K., Wohlsein, P., Schmitz, J., Bräsen, J.H., Distl, O. (2020). Complex segregation analysis of familial amyloidosis in Oriental shorthair cats. *Vet J* *265*,105552. DOI: 10.1016/j.tvjl.2020.105552
- Struck, J.P., Kramer, M.W., Katzendorn, O., Hupe, M.C., Ozimek, T., Hennig, M.J.P., Wiessmeyer, J.R., von Klot, C.A.J., Kuczyk, M.A., Kreipe, H.H., Merseburger, A.S., Perner, S., Dressler, F.F. (2021). Bicentric Retrospective Analysis of en Bloc Resection and Muscularis Mucosae Detection Rate in Non-Muscle Invasive Bladder Tumors: A Real-World Scenario *Adv Ther* *38*,258-267. DOI: 10.1007/s12325-020-01529-1
- Suwala, A.K., Stichel, D., Schrimpf, D., Kloor, M., Wefers, A.K., Reinhardt, A., Maas, S.L.N., Kratz, C.P., Schweizer, L., Hasselblatt, M., Snuderl, M., Abedalthagafi, M.S.J., Abdullaev, Z., Monoranu, C.M., Bergmann, M., Pekrun, A., Freyschlag, C., Aronica, E., Kramm, C.M., Hinz, F., Sievers, P., Korshunov, A., Kool, M., Pfister, S.M., Sturm, D., Jones, D.T.W., Wick, W., Unterberg, A., Hartmann, C., Dodgshun, A., Tabori, U., Wesseling, P., Sahm, F., von Deimling, A., Reuss, D.E. (2021). Primary mismatch repair deficient IDH-mutant astrocytoma (PMMRDIA) is a distinct type with a poor prognosis *Acta Neuropathol* *141*,85-100. DOI: 10.1007/s00401-020-02243-6
- Szepes, M., Melchert, A., Dahlmann, J., Hegermann, J., Werlein, C., Jonigk, D., Haverich, A., Martin, U., Olmer, R., Gruh, I. (2020). Dual Function of iPSC-Derived Pericyte-Like Cells in Vascularization and Fibrosis-Related Cardiac Tissue Remodeling *In Vitro*. *Int J Mol Sci* *21*,8947. DOI: 10.3390/ijms21238947
- Tumpara, S., Martinez-Delgado, B., Gomez-Mariano, G., Liu, B., DeLuca, D.S., Korenbaum, E., Jonigk, D., Jugert, F., Wurm, F.M., Wurm, M.J., Welte, T., Janciauskiene, S. (2020). The Delivery of alpha1-Antitrypsin Therapy Through Transepidermal Route: Worthwhile to Explore *Front Pharmacol* *11*,983. DOI: 10.3389/fphar.2020.00983
- Uecker, M., Lehmann, U., Braubach, P., Schukfeh, N., Madadi-Sanjani, O., Ure, B.M., Petersen, C., Kuebler, J.F. (2021). Choledochal Cysts Resected during Childhood Show No Mutations of KRAS and BRAF as Early Markers of Malignancy in Cholangiocytes *Eur J Pediatr Surg* *37*,20-24. DOI: 10.1055/s-0040-1715610
- Verleden, S.E., Kirby, M., Everaerts, S., Vanstapel, A., McDonough, J.E., Verbeken, E.K., Braubach, P., Boone, M.N., Aslam, D., Verschakelen, J., Ceulemans, L.J., Neyrinck, A.P., Van Raemdonck, D.E., Vos, R., Decramer, M., Hackett, T.L., Hogg, J.C., Janssens, W., Verleden, G.M., Vanaudenaerde, B.M. (2021). Small airway loss in the physiologically ageing lung: a cross-sectional study in unused donor lungs *Lancet Respir Med* *9*,167-174. DOI: 10.1016/S2213-2600(20)30324-6
- Verleden, S.E., Vanstapel, A., De Sadeleer, L., Weynand, B., Boone, M., Verbeken, E., Piloni, D., Van Raemdonck, D., Ackermann, M., Jonigk, D.D., Verschakelen, J., Wuyts, W.A. (2020). Quantitative analysis of airway obstruction in lymphangioleiomyomatosis *Eur Respir J* *56*,DOI: 10.1183/13993003.01965-2019
- Viereck, J., Bührke, A., Foinquinos, A., Chatterjee, S., Kleeberger, J.A., Xiao, K., Janssen-Peters, H., Batkai, S., Ramanujam, D., Kraft, T., Cebotari, S., Gueler, F., Beyer, A.M., Schmitz, J., Bräsen, J.H., Schmitto, J.D., Gyöngyösi, M., Löser, A., Hirt, M.N., Eschenhagen, T.,

Engelhardt, S., Bär, C., Thum, T. (2020). Targeting muscle-enriched long non-coding RNA H19 reverses pathological cardiac hypertrophy. *Eur Heart J* 41,3462-3474. DOI: 10.1093/eurheartj/ehaa519

Volk, V., Theobald, S.J., Danisch, S., Khailaie, S., Kalbarczyk, M., Schneider, A., Bialek-Waldmann, J., Krönke, N., Deng, Y., Eiz-Vesper, B., Dragon, A.C., von Kaisenberg, C., Lienenklaus, S., Bleich, A., Keck, J., Meyer-Hermann, M., Klawonn, F., Hammerschmidt, W., Delecluse, H.J., Münz, C., Feuerhake, F., Stripecke, R. (2021). PD-1 Blockade Aggravates Epstein-Barr Virus(+) Post-Transplant Lymphoproliferative Disorder in Humanized Mice Resulting in Central Nervous System Involvement and CD4(+) T Cell Dysregulations *Front Oncol* 10,614876. DOI: 10.3389/fonc.2020.614876

Watermann, C., Pasternack, H., Idel, C., Ribbat-Idel, J., Brägelmann, J., Kuppler, P., Offermann, A., Jonigk, D., Kühnel, M.P., Schröck, A., Dreyer, E., Rosero, C., Nathansen, J., Dubrowska, A., Tharun, L., Kirfel, J., Wollenberg, B., Perner, S., Krupar, R. (2021). Recurrent HNSCC Harbor an Immunosuppressive Tumor Immune Microenvironment Suggesting Successful Tumor Immune Evasion *Clin Cancer Res* 27,632-644. DOI: 10.1158/1078-0432.CCR-20-0197

Weissinger, E.M., Metzger, J., Schleuning, M., Schmid, C., Messinger, D., Beutel, G., Wagner-Drouet, E.M., Schetelig, J., Baurmann, H., Rank, A., Stolzl, F., Schäfer-Eckart, K., Westphal, K., Bethge, W., von Harsdorf, S., Bunjes, D.W., Heidenreich, D., Klein, S., Holler, E., Kreipe, H.H., Jonigk, D., Türüchanow, I., Raad, J., Papkalla, A., von der Leyen, H., Hambach, L., Hamwi, I., Ehrlich, S., Krauter, J., Stadler, M., Ganser, A. (2021). A multicenter prospective, randomized, placebo-controlled phase II/III trial for preemptive acute graft-versus-host disease therapy *Leukemia* 35,1763-1772. DOI: 10.1038/s41375-020-01059-3

Willers, M., Ulas, T., Völlger, L., Vogl, T., Heinemann, A.S., Pirr, S., Pagel, J., Fehlhaber, B., Halle, O., Schöning, J., Schreek, S., Löber, U., Essex, M., Hombach, P., Graspentner, S., Basic, M., Bleich, A., Cloppenburg-Schmidt, K., Künzel, S., Jonigk, D., Rupp, J., Hansen, G., Förster, R., Baines, J.F., Härtel, C., Schultze, J.L., Forslund, S.K., Roth, J., Viemann, D. (2020). S100A8 and S100A9 are Important for Post-natal Development of Gut Microbiota and Immune System in Mice and Infants *Gastroenterology* 159,2130-2145.e5. DOI: 10.1053/j.gastro.2020.08.019

Yerabolu, D., Weiss, A., Kojonazarov, B., Boehm, M., Schlueter, B.C., Ruppert, C., Günther, A., Jonigk, D., Grimminger, F., Ghofrani, H.A., Seeger, W., Weissmann, N., Schermuly, R.T. (2021). Targeting Jak-Stat Signaling in Experimental Pulmonary Hypertension *Am J Respir Cell Mol Biol* 64,100-114. DOI: 10.1165/rcmb.2019-0431OC

Yuzefovych, Y., Valdivia, E., Rong, S., Hack, F., Rother, T., Schmitz, J., Bräsen, J.H., Wedekind, D., Moers, C., Wenzel, N., Gueler, F., Blasczyk, R., Figueiredo, C. (2020). Genetic Engineering of the Kidney to Permanently Silence MHC Transcripts During ex vivo Organ Perfusion *Front Immunol* 11,265. DOI: 10.3389/fimmu.2020.00265

Leitlinien von Fachgesellschaften

Behr, J., Günther, A., Bonella, F., Dinkel, J., Fink, L., Geiser, T., Geissler, K., Gläser, S., Handzhiev, S., Jonigk, D., Koschel, D., Kreuter, M., Leuschner, G., Markart, P., Prasse, A., Schönfeld, N., Schupp, J.C., Sitter, H., Müller-Quernheim, J., Costabel, U. (2020). S2K-Leitlinie zur Diagnostik der idiopathischen Lungenfibrose. *Pneumologie* 74,263-293. DOI: 10.1055/a-1120-3531

Ditsch, N., Untch, M., Kolberg-Liedtke, C., Jackisch, C., Krug, D., Friedrich, M., Janni, W., Müller, V., Albert, U.S., Banys-Paluchowski, M., Bauerfeind, I., Blohmer, J.U., Budach, W., Dall, P., Diel, I., Fallenberg, E.M., Fasching, P.A., Fehm, T., Gerber, B., Gluz, O., Hanf, V., Harbeck, N., Heil, J., Huober, J., Kreipe, H.H., Kuhn, T., Kümmel, S., Loibl, S., Lüftner, D., Lux, M., Maass, N., Moebus, V., Mundhenke, C., Park-Simon, T.W., Reimer, T., Rhiem, K., Rody, A., Schmidt, M., Schneeweiss, A., Solbach, C., Solomayer, E.F., Stickeler, E., Thomssen, C., Witzel, I., Wockel, A., Thill, M. (2020). AGO Recommendations for the Diagnosis and Treatment of Patients with Locally Advanced and Metastatic Breast Cancer: Update 2020. *Breast Care (Basel)* 15,294-309. DOI: 10.1159/000508736

Dowsett, M., Ellis, M.J., Dixon, J.M., Gluz, O., Robertson, J., Kates, R., Suman, V.J., Turnbull, A.K., Nitz, U., Christgen, M., Kreipe, H., Kuemmel, S., Bliss, J.M., Barry, P., Johnston, S.R., Jacobs, S.A., Ma, C.X., Smith, I.E., Harbeck, N. (2020). Evidence-based guidelines for managing patients with primary ER+ HER2- breast cancer deferred from surgery due to the COVID-19 pandemic *NPJ Breast Cancer* 6,21. DOI: 10.1038/s41523-020-0168-9

Übersichtsarbeiten

Saborowski, A., Lehmann, U., Vogel, A. (2020). FGFR inhibitors in cholangiocarcinoma: what's now and what's next? *Ther Adv Med Oncol* 12,DOI: 10.1177/1758835920953293

Verleden, S.E., Braubach, P., Kuehnel, M., Dickgreber, N., Brouwer, E., Tittmann, P., Laenger, F., Jonigk, D. (2021). Molecular approach to the classification of chronic fibrosing lung disease-there and back again *Virchows Arch* 478,89-99. DOI: 10.1007/s00428-020-02964-9

Case reports

Fleissner, F., Tudorache, I., Christgen, M., Cebotari, S. (2020). Cardiac Phlegmon: Infectious Endocarditis Causing Ventricular Wall Rupture *Thorac Cardiovasc Surg Rep* 9,e51-e54. DOI: 10.1055/s-0040-1716391

Niehues, T., Özgür, T.T., Bickes, M., Waldmann, R., Schöning, J., Bräsen, J., Hagel, C., Ballmaier, M., Klusmann, J.H., Niedermayer, A., Pannicke, U., Enders, A., Dückers, G., Siepermann, K., Hempel, J., Schwarz, K., Viemann, D. (2020). Mutations of the gene FNIP1 associated with a syndromic autosomal recessive immunodeficiency with cardiomyopathy and pre-excitation syndrome. *Eur J Immunol* 50,1078-1080. DOI: 10.1002/eji.201948504

Schaumann, N., Hussein, K. (2020). Hepatic and Adrenocortical Choristomas in the Placenta Fetal *Pediatr Pathol* 1-10. DOI: 10.1080/15513815.2020.1792594

Stahl, K., Bräsen, J.H., Hoepfer, M.M., David, S. (2020). Direct evidence of SARS-CoV-2 in gut endothelium *Intensive Care Med* 46,2081-2082. DOI: 10.1007/s00134-020-06237-6

Thiele, T., Seeliger, T., Witte, T., Sander, B., Skripuletz, T., Ernst, D. (2020). Schwere Polyneuropathie bei primärem Sjogren-Syndrom : Bei Patienten mit motorischen Neuropathien auch an Sjogren-Syndrom denken! *Z Rheumatol* 79,707-709. DOI: 10.1007/s00393-020-00821-3

Editorials

Ackermann, M., Mentzer, S.J., Kolb, M., Jonigk, D. (2020). Inflammation and intussusceptive angiogenesis in COVID-19: everything in and out of flow *Eur Respir J* 56, DOI: 10.1183/13993003.03147-2020

Jonigk, D., Märkl, B., Helms, J. (2021). COVID-19: what the clinician should know about post-mortem findings *Intensive Care Med* 47,86-89. DOI: 10.1007/s00134-020-06302-0

Griguolo, G., Braso-Maristany, F., Gonzalez-Farre, B., Pascual, T., Chic, N., Sauri, T., Kates, R., Gluz, O., Martinez, D., Pare, L., Tsvetkova, V., Pesantez, D., Vidal, M., Adamo, B., Munoz, M., Galvan, P., Barbera, L., Cuatrecasas, M., Christgen, M., Kreipe, H., Monge-Escartin, I., Villagrasa, P., Soy, D., Giarratano, T., Dieci, M.V., Conte, P., Harbeck, N., Guarneri, V., Prat, A. (2020). ERBB2 mRNA Expression and Response to Ado-Trastuzumab Emtansine (T-DM1) in HER2-Positive Breast Cancer *Cancers (Basel)* 12,1902. DOI: 10.3390/cancers12071902

Abstracts

Bellmàs Sanz, R., Hitz, A., Wiegmann, B., Bläsing, K., Sommer, W., Ius, F., Kühne, J., Knöfel, A., Horn, L., Tudorache, I., Haverich, A., Jonigk, D., Warnecke, G., Falk, C. (2020). Donor T and NK Cells with a Special Tissue-Resident Memory Phenotype Migrate into the Periphery of Lung Transplant Recipients - A Potential Feature for Tolerance Development. *J Heart Lung Transplant* 39,5198. DOI: 10.1016/j.healun.2020.01.801

Promotionen

Abbetmeier-Basse, M. (2019). ZNS-Invasion durch Meningeome als prognostischer Marker. Dissertation, Medizinische Hochschule Hannover, 2020

Abraham, L.M. (2020). Retrospektive Auswertung von Obduktionsbefunden bei Patienten mit lymphoiden Neoplasien. Dissertation, Medizinische Hochschule Hannover, 2020

Lippmann, T. (2019). Fluoreszenz in situ Hybridisierung in der Infektionsdiagnostik an Formalin-fixiertem Gewebe Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Persing, S. (2019). Nachweis resistenzvermittelnder Mutationen in Metastasen und im Blut von Bronchial- und Mammakarzinompatienten Dissertation, Medizinische Hochschule Hannover, 2020

Salim, M. (2017). Distribution, frequency and function of mutations in the *TET2* gene in myeloid neoplasms. Dissertation, Medizinische Hochschule Hannover, 2020

Schaumann, N.M. (2020). Untersuchungen zur Interobserver-Konkordanz bei der histologischen Graduierung lobulärer Läsionen der Mamma. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Schenk, M.K. (2019). Fluoreszenz-in-situ-Hybridisierung (FISH) zur Untersuchung von Wachstumsrezeptor-Genen in Speicheldrüsenkarzinomen. Dissertation Medizinische Hochschule Hannover 2020

Schulze Westhoff, M.L. (2020). Subtypisierung und Analyse der räumlichen Verteilung von Makrophagen und Mikroglia im Gewebekontext von IDH1 (R132H) mutierten Glioblastomen. Dissertation, Medizinische Hochschule Hannover 2020

Wehling, J. (2017). Vergleichende Analyse von in CRISTAL und Paraffin eingebetteten Proben für die histologische und molekularpathologische Untersuchung von humanen Lungenproben Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Institut für Rechtsmedizin – 5500

Originalpublikationen

Bolte, K., Dziadosz, M., Kono, N., Vennemann, B., Klintschar, M., Teske, J. (2021). Determination of drugs in exhumed liver and brain tissue after over 9 years of burial by liquid chromatography-tandem mass spectrometry-Part 1: Cardiovascular drugs *Drug Test Anal* 13,595-603. DOI: 10.1002/dta.2940

Kerbacher, S., Pfeifer, M., Riener-Hofer, R., Berzlanovich, A., Eogan, M., Galic Mihic, A., Haring, G., Hejna, P., Höller, J., Hostiuc, S., Klintschar, M., Kovac, P., Krauskopf, A., Leski, S., Malacka, M., Schwark, T., Sprenger, H., Verzeletti, A., Vieira, D.N., Wolf, S., Yen, K. (2019). Overview of clinical forensic services in various countries of the European Union. *Forensic Sci Res* 5,74-84. DOI: 10.1080/20961790.2019.1656881

Meissner, L., Schürmann, P., Dörk, T., Hagemeyer, L., Klintschar, M. (2021). Genetic association study of fatal pulmonary embolism *Int J Legal Med* 135,143-151. DOI: 10.1007/s00414-020-02441-7

Rosenberger, W., Schuchardt, S., Hebisch, R., Hartwig, A., MAK Commission. (2020). Triphenylphosphat, isopropyliert (isopropylierte Phenylphosphate, IPPHP) – Bestimmung von isopropylierten Phenylphosphaten in der Luft am Arbeitsplatz mittels Gaschromatographie (GC-MS). *MAK Collect Occup Health Saf* 5,Doc063. DOI: 10.34865/am6893741d5_3or

Savov, P., Budde, S., Tsamassiotis, S., Windhagen, H., Klintschar, M., Ettinger, M. (2020). Three-dimensional templating in hip arthroplasty: the basis for template-directed instrumentation? *Arch Orthop Trauma Surg* 140,827-833. DOI: 10.1007/s00402-020-03394-7

Schmidt, N., Schücker, K., Krause, I., Dörk, T., Klintschar, M., Hummel, S. (2020). Genome-wide SNP typing of ancient DNA: Determination of hair and eye color of Bronze Age humans from their skeletal remains *Am J Phys Anthropol* 172,99-109. DOI: 10.1002/ajpa.23996

Serth, J., Peters, I., Dubrowinskaja, N., Reese, C., Albrecht, K., Klintschar, M., Lafos, M., Grote, A., Becker, A., Hennenlotter, J., Stenzl, A., Tezval, H., Kuczyk, M.A. (2020). Age-, tumor-, and metastatic tissue-associated DNA hypermethylation of a T-box brain 1 locus in human kidney tissue. *Clin Epigenetics* 12,33. DOI: 10.1186/s13148-020-0823-x

Case reports

Albers, A., Gies, U., Raatschen, H.J., Klintschar, M. (2020). Another umbrella murder? - A rare case of Minamata disease. *Forensic Sci Med Pathol* 16,504-509. DOI: 10.1007/s12024-020-00247-y

Preuss, V., Vennemann, B., Klintschar, M. (2020). Just another railway fatality. *Int J Legal Med* 134,1785-1790. DOI: 10.1007/s00414-020-02247-7

Qu, D., Qiao, D.F., Klintschar, M., Qu, Z., Yue, X. (2021). High-throughput 16S rDNA sequencing assisting in the detection of bacterial pathogen candidates: a fatal case of necrotizing fasciitis in a child *Int J Legal Med* 135,399-407. DOI: 10.1007/s00414-020-02421-x

Promotionen

Kiunka, I.E.C. (2017). Retrospektive Analyse privat veranlasster Obduktionen am Institut für Rechtsmedizin der Medizinischen Hochschule Hannover der Jahre 1978 – 2012 Dissertation, Medizinische Hochschule Hannover, 2020

Strampe, H. (2019). Tödliche Verkehrsunfälle im Sektionsgut des Instituts für Rechtsmedizin der Medizinischen Hochschule Hannover im Untersuchungszeitraum 2006–2010. Dissertation, Medizinische Hochschule Hannover, 2020

Supernak, V.I.S. (2019). Retrospektive Analyse iatrogenen Todesfälle im Sektionsgut des Instituts für Rechtsmedizin der Medizinischen Hochschule Hannover von 2006-2010 [Auftraggeber StA Hannover] Dissertation, Medizinische Hochschule Hannover, 2020

Zentrum Pharmakologie und Toxikologie

Institut für Pharmako- und Toxikogenomikforschung – 9646

Originalpublikationen

Selvaraj, S., Oh, J.H., Borlak, J. (2020). An adverse outcome pathway for immune-mediated and allergic hepatitis: a case study with the NSAID diclofenac. *Arch Toxicol* 94,2733-2748. DOI: 10.1007/s00204-020-02767-6

Zhu, J., Muskelishvili, L., Tong, W., Borlak, J., Chen, M. (2020). Cancer genomics predicts disease relapse and therapeutic response to neoadjuvant chemotherapy of hormone sensitive breast cancers. *Sci Rep* 10,8188. DOI: 10.1038/s41598-020-65055-4

Übersichtsarbeiten

Zhong, S., Golpon, H., Zardo, P., Borlak, J. (2021). miRNAs in lung cancer. A systematic review identifies predictive and prognostic miRNA candidates for precision medicine in lung cancer. *Transl Res* 230,164-196. DOI: 10.1016/j.trsl.2020.11.012

Promotionen

Marienhagen, U.D.K. (2019). Treatment of cyclosporine induced hypertension: results from a long-term observational study using different antihypertensive medications. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Masterarbeiten

Steinhoff, A. (2020). Identification of enantioselective metabolites of Ketoconazole in different biological matrices by HPLC-MS. Masterarbeit, University of Potsdam, 2020

Institut für Klinische Pharmakologie – 5350

Originalpublikationen

Ahlenstiel-Grunow, T., Liu, X., Schild, R., Oh, J., Taylan, C., Weber, L.T., Staude, H., Verboom, M., Schröder, C., Sabau, R., Grosshennig, A., Pape, L. (2021). Steering Transplant Immunosuppression by Measuring Virus-Specific T Cell Levels: The Randomized, Controlled IVIST Trial *J Am Soc Nephrol* 32,502-516. DOI: 10.1681/ASN.2020050645

Heck, J., Ranker, A., Wranke, A., Kano, L., Macke, C., Rademacher, J., Stichtenoth, D.O., Krause, O. (2021). Die interdisziplinäre alterstraumatologische Visite : Empfehlungen für den Klinikalltag *Unfallchirurg* 124,138-145. DOI: 10.1007/s00113-020-00833-3

Hein, M., Chobanyan-Jürgens, K., Tegtbur, U., Engeli, S., Jordan, J., Haufe, S. (2021). Effect of normobaric hypoxic exercise on blood pressure in old individuals *Eur J Appl Physiol* 37,789-797. DOI: 10.1007/s00421-020-04572-6

Schulte, B., Wübbolding, M., Marra, F., Port, K., Manns, M.P., Back, D., Cornberg, M., Stichtenoth, D.O., Höner Zu Siederdisen, C., Maasoumy, B. (2020). Frequency of Potential Drug-Drug Interactions in the Changing Field of HCV Therapy *Open Forum Infect Dis* 7,ofaa040. DOI: 10.1093/ofid/ofaa040

Übersichtsarbeiten

May, M., Schindler, C., Engeli, S. (2020). Modern pharmacological treatment of obese patients *Ther Adv Endocrinol Metab* 11,DOI: 10.1177/2042018819897527

Seifert, J., Heck, J., Eckermann, G., Singer, M., Bleich, S., Grohmann, R., Toto, S. (2020). Psychopharmakotherapie in Zeiten der COVID-19-Pandemie *Nervenarzt* 91,604-610. DOI: 10.1007/s00115-020-00939-4

Letter

Heck, J., Stichtenoth, D.O., Mettin, R., Jöckel, J., Bickel, C., Krichevsky, B. (2021). Remdesivir-induced symmetrical drug-related intertriginous and flexural exanthema (SDRIFE)? A case report with review of the literature *Eur J Clin Pharmacol* 77,141-144. DOI: 10.1007/s00228-020-02955-4

Case reports

Heck, J., Burda, K., Hillemacher, T., Bleich, S., Stichtenoth, D.O., Groh, A. (2020). Naltrexone-induced drug eruption. *Clin Case Rep* 8,2049-2050. DOI: 10.1002/ccr3.3055

Heck, J., Groh, A., Stichtenoth, D.O., Bleich, S., Krause, O. (2020). Look-alikes, sound-alikes: Three cases of insidious medication errors. *Clin Case Rep* 8,3284-3287. DOI: 10.1002/ccr3.3409

Heck, J., Seifert, J., Stichtenoth, D.O., Bleich, S., Degner, D., Rütger, E., Stübner, S., Grohmann, R., Toto, S. (2020). Pisa-Syndrom nach der Einnahme von Olanzapin. Fallbericht mit Literaturübersicht. *PPT* 27,206-209.

Promotionen

Hansen, A.B. (2018). Auswirkungen gewichtsreduzierender Operationen auf adipositasassoziierte Erkrankungen und deren Pharmakotherapie. Dissertation Medizinische Hochschule Hannover 2020

Institut für Pharmakologie – 5320

Originalpublikationen

Chaturvedi, A., Goparaju, R., Gupta, C., Weder, J., Klünemann, T., Araujo Cruz, M.M., Kloos, A., Goerlich, K., Schottmann, R., Othman, B., Struys, E.A., Bähre, H., Grote-Koska, D., Brand, K., Ganser, A., Preller, M., Heuser, M. (2020). In vivo efficacy of mutant IDH1 inhibitor HMS-101 and structural resolution of distinct binding site. *Leukemia* 34,416-426. DOI: 10.1038/s41375-019-0582-x

Costamagna, D., Duellen, R., Penna, F., Neumann, D., Costelli, P., Sampaolesi, M. (2020). Interleukin-4 administration improves muscle function, adult myogenesis, and lifespan of colon carcinoma-bearing mice. *J Cachexia Sarcopenia Muscle* 11,783-801. DOI: 10.1002/jcsm.12539

de Araujo, L.S., Pessler, K., Sühs, K.W., Novoselova, N., Klawonn, F., Kuhn, M., Kaefer, V., Müller-Vahl, K., Trebst, C., Skripuletz, T., Stangel, M., Pessler, F. (2020). Phosphatidylcholine PC ae C44:6 in cerebrospinal fluid is a sensitive biomarker for bacterial meningitis. *J Transl Med* 18,9. DOI: 10.1186/s12967-019-02179-w

Gibhardt, J., Heidemann, J.L., Bremenkamp, R., Rosenberg, J., Seifert, R., Kaefer, V., Ficner, R., Commichau, F.M. (2020). An extracytoplasmic protein and a moonlighting enzyme modulate synthesis of c-di-AMP in *Listeria monocytogenes*. *Environ Microbiol* 22,2771-2791. DOI: 10.1111/1462-2920.15008

Latoscha, A., Drexler, D.J., Al-Bassam, M.M., Bandera, A.M., Kaefer, V., Findlay, K.C., Witte, G., Tschowri, N. (2020). c-di-AMP hydrolysis by the phosphodiesterase AtaC promotes differentiation of multicellular bacteria. *Proc Natl Acad Sci U S A* 117,7392-7400. DOI: 10.1073/pnas.1917080117

Liu, Y., Lee, C., Li, F., Trcek, J., Bähre, H., Guo, R.T., Chen, C.C., Chernobrovkin, A., Zubarev, R., Römling, U. (2020). A Cyclic di-GMP Network Is Present in Gram-Positive *Streptococcus* and Gram-Negative *Proteus* Species. *ACS Infect Dis* 6,2672-2687. DOI: 10.1021/acscinfdis.0c00314

Schäfer, H., Beckert, B., Frese, C.K., Steinchen, W., Nuss, A.M., Beckstette, M., Hantke, I., Driller, K., Sudzinova, P., Krasny, L., Kaefer, V., Dersch, P., Bange, G., Wilson, D.N., Turgay, K. (2020). The alarmones (p)ppGpp are part of the heat shock response of *Bacillus subtilis*. *PLoS Genet* 16,e1008275. DOI: 10.1371/journal.pgen.1008275

Schimmel, K., Jung, M., Foinquinos, A., Jose, G.S., Beaumont, J., Bock, K., Grote-Levi, L., Xiao, K., Bär, C., Pfanne, A., Just, A., Zimmer, K., Ngoy, S., Lopez, B., Ravassa, S., Samolovac, S., Janssen-Peters, H., Remke, J., Scherf, K., Dangwal, S., Piccoli, M.T., Kleemiss, F., Kreutzer, F.P., Kenneweg, F., Leonardy, J., Hobuss, L., Santer, L., Do, Q.T., Geffers, R., Braesen, J.H., Schmitz, J., Brandenberger, C., Müller, D.N., Wilck, N., Kaefer, V., Bähre, H., Batkai, S., Fiedler, J., Alexander, K.M., Wertheim, B.M., Fisch, S., Liao, R., Diez, J., Gonzalez, A., Thum, T. (2020). Natural Compound Library Screening Identifies New Molecules for the Treatment of Cardiac Fibrosis and Diastolic Dysfunction. *Circulation* 141,751-767. DOI: 10.1161/CIRCULATIONAHA.119.042559

Schirmer, B., Lindemann, L., Bittkau, K.S., Isaev, R., Bösche, D., Juchem, M., Seifert, R., Neumann, D. (2020). Mouse Colonic Epithelial Cells Functionally Express the Histamine H4 Receptor. *J Pharmacol Exp Ther* 373,167-174. DOI: 10.1124/jpet.119.264408

Schirmer, B., Rother, T., Bruesch, I., Bleich, A., Werlein, C., Jonigk, D., Seifert, R., Neumann, D. (2020). Genetic Deficiency of the Histamine H4-Receptor Reduces Experimental Colorectal Carcinogenesis in Mice. *Cancers (Basel)* 12,E912 [pii]. DOI: 10.3390/cancers12040912

Schneider, E.H., Hofmeister, O., Kälble, S., Seifert, R. (2020). Apoptotic and anti-proliferative effect of guanosine and guanosine derivatives in HuT-78 T lymphoma cells. *Naunyn Schmiedeberg's Arch Pharmacol* 393,1251-1267. DOI: 10.1007/s00210-020-01864-8

Thibeaux, R., Soupe-Gilbert, M.E., Kainiu, M., Girault, D., Bierque, E., Fernandes, J., Bahre, H., Douyere, A., Eskenazi, N., Vinh, J., Picardeau, M., Goarant, C. (2020). The zoonotic pathogen *Leptospira interrogans* mitigates environmental stress through cyclic-di-GMP-controlled biofilm production. *NPJ Biofilms Microbiomes* 6,24. DOI: 10.1038/s41522-020-0134-1

Thöming, J.G., Tomasch, J., Preusse, M., Koska, M., Grahl, N., Pohl, S., Willger, S.D., Kaefer, V., Müsken, M., Häussler, S. (2020). Parallel evolutionary paths to produce more than one *Pseudomonas aeruginosa* biofilm phenotype *NPJ Biofilms Microbiomes* 6,2. DOI: 10.1038/s41522-019-0113-6

Wallner, T., Pedroza, L., Voigt, K., Kaefer, V., Wilde, A. (2020). The cyanobacterial phytochrome 2 regulates the expression of motility-related genes through the second messenger cyclic di-GMP. *Photochem Photobiol Sci* 19,631-643. DOI: 10.1039/c9pp00489k

Übersichtsarbeiten

Seifert, R., Schirmer, B. (2020). A simple mechanistic terminology of psychoactive drugs: a proposal. *Naunyn Schmiedeberg's Arch Pharmacol* 393,1331-1339. DOI: 10.1007/s00210-020-01918-x

Buchbeiträge, Monografien

Schirmer, B., Neumann, D. (2019). Cytokines. In: Nijkamp and Parnham's Principles of Immunopharmacology, Parnham M., eds. (Cham: Springer) pp. 69-91

sonstiges

Schirmer, B., Giehl, K., Kubatzky, K.F. (2020). Report of the 23rd Meeting on Signal Transduction 2019-Trends in Cancer and Infection. *Int J Mol Sci* 21,E2728 [pii]. DOI: 10.3390/ijms21082728

Promotionen

Golly, F. (2019). Phosphodiesterase 3B-vermittelter 3',5'-cUMP-Abbau: Enzymkinetische Charakterisierung und biologische Funktion in Adipozyten Dissertation, Medizinische Hochschule Hannover, 2020

Koenig, T. (2018). Charakterisierung von Calnexin, Myomegalin und AKAP9 als potentielle Bindungspartner der zyklischen Nucleotide cCMP und cUMP. Dissertation, Medizinische Hochschule Hannover, 2020

Neumann, M. (2018). Identifizierung cUMP-bindender Proteine Dissertation, Medizinische Hochschule Hannover, 2020

Masterarbeiten

Bahr, F. (2020). Untersuchung zur pharmakologischen Beeinflussung der Barrierefunktion von humanem Kolonepithel im 3-dimensionalen Zellkulturmodell. Masterarbeit, Medizinische Hochschule Hannover, 2020

Brömsen, T. (2020). Analyse molekularer Mechanismen von zyklischen Pyrimidin- und Purinnucleotiden an Mammakarzinomzelllinien. Masterarbeit, Medizinische Hochschule Hannover, 2020

Gretenkort, L. (2020). Identifikation von CD8 β Homodimeren in B-Zellen. Masterarbeit, Medizinische Hochschule Hannover, 2020

König, M. (2020). Analyse des Effekts von Histamin auf Viabilität, Proliferation und Metabolismus von humanen Kolonkarzinom Zelllinien. Masterarbeit, Medizinische Hochschule Hannover, 2020

Sharifi, S. (2020). Analysis of molecular mechanisms of cyclic purine and pyrimidine nucleotides in mammary carcinoma cell lines. Masterarbeit, Medizinische Hochschule Hannover, 2020

Wolf, N. (2020). Charakterisierung des Effekts von 3',5'-zyklischen Pyrimidinnucleotiden auf die Proliferation menschlicher T-Zellen. Masterarbeit, Medizinische Hochschule Hannover, 2020

Bachelorarbeiten

Boog, J. (2020). Enzymatische Analyse ausgewählter Mutanten von ExoY. Bachelorarbeit, Medizinische Hochschule Hannover, 2020

Institut für Toxikologie – 5340

Originalpublikationen

Adolf, A., Turko, P., Rohrbeck, A., Just, I., Vida, I., Ahnert-Hilger, G., Höltje, M. (2020). The Higher Sensitivity of GABAergic Compared to Glutamatergic Neurons to Growth-Promoting C3bot Treatment Is Mediated by Vimentin Front Cell Neurosci 14,596072. DOI: 10.3389/fncel.2020.596072

Alberts, A., Klingberg, A., Hoffmeister, L., Wessig, A.K., Brand, K., Pich, A., Neumann, K. (2020). Binding of Macrophage Receptor MARCO, LDL, and LDLR to Disease-Associated Crystalline Structures. Front Immunol 11,596103. DOI: 10.3389/fimmu.2020.596103

Alberts, A., Klingberg, A., Wessig, A.K., Combes, C., Witte, T., Brand, K., Pich, A., Neumann, K. (2020). C-reactive protein (CRP) recognizes uric acid crystals and recruits proteases C1 and MASP1. Sci Rep 10,6391. DOI: 10.1038/s41598-020-63318-8

Becker, T., Pich, A., Tamm, S., Hedtfeld, S., Ibrahim, M., Altmüller, J., Dalibor, N., Toliat, M.R., Janciauskiene, S., Tümmler, B., Stanke, F. (2020). Genetic information from discordant sibling pairs points to ESRP2 as a candidate trans-acting regulator of the CF modifier gene SCNN1B Sci Rep 10,22447. DOI: 10.1038/s41598-020-79804-y

Begou, O., Drabert, K., Theodoridis, G., Tsikas, D. (2020). GC-NICI-MS analysis of acetazolamide and other sulfonamide (R-SO₂-NH₂) drugs as pentafluorobenzyl derivatives [R-SO₂-N(PFB)₂] and quantification of pharmacological acetazolamide in human urine J Pharm Anal 10,49-59. DOI: 10.1016/j.jpha.2019.11.006

Bollenbach, A., Gambaryan, S., Mindukshev, I., Pich, A., Tsikas, D. (2020). GC-MS and LC-MS/MS pilot studies on the guanidine (N(G))-dimethylation in native, asymmetrically and symmetrically N(G)-dimethylated arginine-vasopressin peptides and proteins in human red blood cells. J Chromatogr B Analyt Technol Biomed Life Sci 1141,122024. DOI: 10.1016/j.jchromb.2020.122024

Bollenbach, A., Schutte, A.E., Kruger, R., Tsikas, D. (2020). An Ethnic Comparison of Arginine Dimethylation and Cardiometabolic Factors in Healthy Black and White Youth: The ASOS and African-PREDICT Studies J Clin Med 9,844. DOI: 10.3390/jcm9030844

Bollenbach, A., Tsikas, D. (2020). Measurement of the tripeptides glutathione and ophthalmic acid by gas chromatography-mass spectrometry. Anal Biochem DOI: 10.1016/j.ab.2020.113841

Brinkmann, F., Hanusch, B., Ballmann, M., Mayorandan, S., Bollenbach, A., Chobanyan-Jürgens, K., Jansen, K., Schmidt-Choudhury, A., Derichs, N., Tsikas, D., Lücke, T. (2020). Activated L-Arginine/Nitric Oxide Pathway in Pediatric Cystic Fibrosis and Its Association with Pancreatic Insufficiency, Liver Involvement and Nourishment: An Overview and New Results. J Clin Med 9,E2012 [pii]. DOI: 10.3390/jcm9062012

Craig, A., M C Mels, C., Tsikas, D., Boeger, R.H., Schwedhelm, E., Schutte, A.E., Kruger, R. (2021). Central systolic blood pressure relates inversely to nitric oxide synthesis in young black adults: the African-PREDICT study J Hum Hypertens 35,985-993. DOI: 10.1038/s41371-020-00453-9

Craig, A., Mels, C.M.C., Schutte, A.E., Bollenbach, A., Tsikas, D., Schwedhelm, E., Kruger, R. (2021). Urinary albumin-to-creatinine ratio is inversely related to nitric oxide synthesis in young black adults: the African-PREDICT study. Hypertens Res 44,71-79. DOI: 10.1038/s41440-020-0514-1

Craig, A., Mels, C.M.C., Schutte, A.E., Tsikas, D., Kruger, R. (2020). Nitric oxide-related markers link inversely to blood pressure in black boys and men: the ASOS and African-PREDICT studies. Amino Acids 52,639-648. DOI: 10.1007/s00726-020-02842-3

Cseko, K., Pecs, D., Kajtar, B., Hegedus, I., Bollenbach, A., Tsikas, D., Szabo, I.L., Szabo, S., Helyes, Z. (2020). Upregulation of the TRPA1 Ion Channel in the Gastric Mucosa after Iodoacetamide-Induced Gastritis in Rats: A Potential New Therapeutic Target. Int J Mol Sci 21,E5591 [pii]. DOI: 10.3390/ijms21165591

Deppe, J., Weisemann, J., Mahrhold, S., Rummel, A. (2020). The 25 kDa HCN Domain of Clostridial Neurotoxins Is Indispensable for Their Neurotoxicity Toxins (Basel) 12,DOI: 10.3390/toxins12120743

Hanusch, B., Brinkmann, F., Mayorandan, S., Chobanyan-Jürgens, K., Wiemers, A., Jansen, K., Ballmann, M., Schmidt-Choudhury, A., Bollenbach, A., Derichs, N., Tsikas, D., Lücke, T. (2020). Local and Systemic Alterations of the L-Arginine/Nitric Oxide Pathway in Sputum, Blood, and Urine of Pediatric Cystic Fibrosis Patients and Effects of Antibiotic Treatment J Clin Med 9,E3802. DOI: 10.3390/jcm9123802

Henkel, D., Tatge, H., Schötteleindreier, D., Tao, L., Dong, M., Gerhard, R. (2020). Receptor Binding Domains of TcdB from Clostridioides difficile for Chondroitin Sulfate Proteoglycan-4 and Frizzled Proteins Are Functionally Independent and Additive Toxins (Basel) 12,DOI: 10.3390/toxins12120736

- Hensel, N., Raker, V., Förthmann, B., Buch, A., Sodeik, B., Pich, A., Claus, P. (2020).The Proteome and Secretome of Cortical Brain Cells Infected With Herpes Simplex Virus. *Front Neurol* 11,844. DOI: 10.3389/fneur.2020.00844
- Herk, M., Foinquinos, A., Batkai, S., Thum, T., Pich, A. (2020).Pharmacokinetic Studies of Antisense Oligonucleotides Using MALDI-TOF Mass Spectrometry *Front Pharmacol* 11,220. DOI: 10.3389/fphar.2020.00220
- Ho, G.T., Hiemisch, W., Pich, A., Behrens, G.M.N., Blasczyk, R., Bade-Doeding, C. (2020).The Loss of HLA-F/KIR3DS1 Ligation Is Mediated by Hemoglobin Peptides *Int J Mol Sci* 21,DOI: 10.3390/ijms21218012
- Hobuss, L., Foinquinos, A., Jung, M., Kenneweg, F., Xiao, K., Wang, Y., Zimmer, K., Remke, J., Just, A., Nowak, J., Schmidt, A., Pich, A., Mazlan, S., Reamon-Buettner, S.M., Ramos, G.C., Frantz, S., Viereck, J., Loyer, X., Boulanger, C., Wollert, K.C., Fiedler, J., Thum, T. (2020).Pleiotropic cardiac functions controlled by ischemia-induced lncRNA H19 *J Mol Cell Cardiol* 146,43-59. DOI: 10.1016/j.jmcc.2020.07.001
- Hollwedel, F.D., Maus, R., Stolper, J., Khan, A., Stocker, B.L., Timmer, M.S.M., Lu, X., Pich, A., Welte, T., Yamasaki, S., Maus, U.A. (2020).Overexpression of Macrophage-Inducible C-Type Lectin Mincle Aggravates Proinflammatory Responses to Streptococcus pneumoniae with Fatal Outcome in Mice. *J Immunol* 205,3390-3399. DOI: 10.4049/jimmunol.2000509
- Jansen, K., Hanusch, B., Pross, S., Hanff, E., Drabert, K., Bollenbach, A., Dugave, I., Carmann, C., Siefen, R.G., Emons, B., Juckel, G., Legenbauer, T., Tsikas, D., Lücke, T. (2020).Enhanced Nitric Oxide (NO) and Decreased ADMA Synthesis in Pediatric ADHD and Selective Potentiation of NO Synthesis by Methylphenidate *J Clin Med* 9,pii: E175. DOI: 10.3390/jcm9010175
- Jansing, J.C., Fiedler, J., Pich, A., Viereck, J., Thum, T., Mühlfeld, C., Brandenberger, C. (2020).miR-21-KO Alleviates Alveolar Structural Remodeling and Inflammatory Signaling in Acute Lung Injury *Int J Mol Sci* 21,E822. DOI: 10.3390/ijms21030822
- Kropp, K.A., Srivaratharajan, S., Ritter, B., Yu, P., Krooss, S., Polten, F., Pich, A., Alcamí, A., Viejo-Borbolla, A. (2020).Identification of the Cleavage Domain within Glycoprotein G of Herpes Simplex Virus Type 2. *Viruses* 12,E1428 [pii]. DOI: 10.3390/v12121428
- Melzer, C., Jacobs, R., Dittmar, T., Pich, A., von der Ohe, J., Yang, Y., Hass, R. (2020).Reversible Growth-Arrest of a Spontaneously-Derived Human MSC-Like Cell Line *Int J Mol Sci* 21,E4752. DOI: 10.3390/ijms21134752
- Schöttelndreier, D., Langejürgen, A., Lindner, R., Genth, H. (2020).Low Density Lipoprotein Receptor-Related Protein-1 (LRP1) Is Involved in the Uptake of Clostridioides difficile Toxin A and Serves as an Internalizing Receptor *Front Cell Infect Microbiol* 10,565465. DOI: 10.3389/fcimb.2020.565465
- Stojanovic, S.D., Fuchs, M., Fiedler, J., Xiao, K., Meinecke, A., Just, A., Pich, A., Thum, T., Kunz, M. (2020).Comprehensive Bioinformatics Identifies Key microRNA Players in ATG7-Deficient Lung Fibroblasts *Int J Mol Sci* 21,DOI: 10.3390/ijms21114126
- Stojanovic, S.D., Fuchs, M., Kunz, M., Xiao, K., Just, A., Pich, A., Bauersachs, J., Fiedler, J., Sedding, D., Thum, T. (2020).Inflammatory Drivers of Cardiovascular Disease: Molecular Characterization of Senescent Coronary Vascular Smooth Muscle Cells *Front Physiol* 11,520. DOI: 10.3389/fphys.2020.00520
- Tian, S., Liu, Y., Wu, H., Liu, H., Zeng, J., Choi, M.Y., Chen, H., Gerhard, R., Dong, M. (2020).Genome-Wide CRISPR Screen Identifies Semaphorin 6A and 6B as Receptors for Paenoclostridium sordellii Toxin TcsL *Cell Host Microbe* 27,782-792.e7. DOI: 10.1016/j.chom.2020.03.007
- Tsikas, D. (2020).GC-MS approach revealing hidden nitrite reactions in hemolysate using (18)O-labelled nitrite and cysteine-based thiols *Anal Biochem* 114025. DOI: 10.1016/j.ab.2020.114025
- Tsikas, D. (2020).Rat liver glutathione S-transferase-catalyzed conjugation of glutathione to the endogenous epoxides of oleic acid and cholesterol *Anal Biochem* 113994. DOI: 10.1016/j.ab.2020.113994
- Yepes-Calderon, M., Sotomayor, C.G., Gans, R.O.B., Berger, S.P., Leuvenink, H.G.D., Tsikas, D., Rodrigo, R., Navis, G.J., Bakker, S.J.L. (2020).Post-transplantation plasma malondialdehyde is associated with cardiovascular mortality in renal transplant recipients: a prospective cohort study *Nephrol Dial Transplant* 35,512-519. DOI: 10.1093/ndt/gfz288

Übersichtsarbeiten

- Kedia, G.T., Ückert, S., Tsikas, D., Becker, A.J., Kuczyk, M.A., Bannowsky, A. (2020).The Use of Vasoactive Drugs in the Treatment of Male Erectile Dysfunction: Current Concepts *J Clin Med* 9,E2987. DOI: 10.3390/jcm9092987

Tsikias, D. (2020). Urinary Dimethylamine (DMA) and Its Precursor Asymmetric Dimethylarginine (ADMA) in Clinical Medicine, in the Context of Nitric Oxide (NO) and Beyond *J Clin Med* *9*, DOI: 10.3390/jcm9061843

Tsikias, D., Surdacki, A. (2020). Biotransformation of organic nitrates by glutathione S-transferases and other enzymes: An appraisal of the pioneering work by William B. Jakoby *Anal Biochem* *113993*. DOI: 10.1016/j.ab.2020.113993

Letter

Neu, A., Hornig, S., Sasani, A., Isbrandt, D., Gerloff, C., Tsikias, D., Schwedhelm, E., Choe, C.U. (2020). Creatine, guanidinoacetate and homoarginine in statin-induced myopathy. *Amino Acids* *52*, 1067-1069. DOI: 10.1007/s00726-020-02865-w

Promotionen

Schöttelndreier, D. (2020). Expression und zelluläre Internalisierung der Rezeptoren von Clostridium difficile Toxin A und Toxin B. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Masterarbeiten

Kriedemann, N. (2020). LC-MS based proteomic analysis of human endomyocardial heart biopsies of heart failure patients. Masterarbeit, Medizinische Hochschule Hannover, 2020

Scheele, M. (2020). Integration des SpyCatcher-SpyTag Systems in Clostridioides difficile Toxin B. Masterarbeit, Medizinische Hochschule Hannover, 2020

Institut für Molekulare und Translationale Therapiestrategien – 8886

Originalpublikationen

Ackermann, M., Haake, K., Kempf, H., Kaschutnig, P., Weiss, A.C., Nguyen, A.H.H., Abeln, M., Merkert, S., Kühnel, M.P., Hartmann, D., Jonigk, D., Thum, T., Kispert, A., Milsom, M.D., Lachmann, N. (2021). A 3D iPSC-differentiation model identifies interleukin-3 as a regulator of early human hematopoietic specification *Haematologica* *106*, 1354-1367. DOI: 10.3324/haematol.2019.228064

Batkai, S., Genschel, C., Viereck, J., Rump, S., Bär, C., Borchert, T., Traxler, D., Riesenhuber, M., Spannauer, A., Lukovic, D., Zlabinger, K., Hasimbegovic, E., Winkler, J., Garamvölgyi, R., Neitzel, S., Gyöngyösi, M., Thum, T. (2021). CDR132L improves systolic and diastolic function in a large animal model of chronic heart failure *Eur Heart J* *42*, 192-201. DOI: 10.1093/eurheartj/ehaa791

de Gonzalo-Calvo, D., Martinez-Cambor, P., Bär, C., Duarte, K., Girerd, N., Fellström, B., Schmieder, R.E., Jardine, A.G., Massy, Z.A., Holdaas, H., Rossignol, P., Zannad, F., Thum, T. (2020). Improved cardiovascular risk prediction in patients with end-stage renal disease on hemodialysis using machine learning modeling and circulating microribonucleic acids *Theranostics* *10*, 8665-8676. DOI: 10.7150/thno.46123

De Majo, F., Hegenbarth, J.C., Rühle, F., Bär, C., Thum, T., de Boer, M., Duncker, D.J., Schroen, B., Armand, A.S., Stoll, M., De Windt, L.J. (2020). Dichotomy between the transcriptomic landscape of naturally versus accelerated aged murine hearts *Sci Rep* *10*, 8136. DOI: 10.1038/s41598-020-65115-9

Foinquinos, A., Batkai, S., Genschel, C., Viereck, J., Rump, S., Gyöngyösi, M., Traxler, D., Riesenhuber, M., Spannauer, A., Lukovic, D., Weber, N., Zlabinger, K., Hasimbegovic, E., Winkler, J., Fiedler, J., Dangwal, S., Fischer, M., de la Roche, J., Wojciechowski, D., Kraft, T., Garamvölgyi, R., Neitzel, S., Chatterjee, S., Yin, X., Bär, C., Mayr, M., Xiao, K., Thum, T. (2020). Preclinical development of a miR-132 inhibitor for heart failure treatment *Nat Commun* *11*, 633. DOI: 10.1038/s41467-020-14349-2

Fuchs, M., Kreuzer, F.P., Kapsner, L.A., Mitzka, S., Just, A., Perbellini, F., Terracciano, C.M., Xiao, K., Geffers, R., Bogdan, C., Prokosch, H.U., Fiedler, J., Thum, T., Kunz, M. (2020). Integrative Bioinformatic Analyses of Global Transcriptome Data Decipher Novel Molecular Insights into Cardiac Anti-Fibrotic Therapies *Int J Mol Sci* *21*, DOI: 10.3390/ijms21134727

Garg, A., Foinquinos, A., Jung, M., Janssen-Peters, H., Biss, S., Bauersachs, J., Gupta, S.K., Thum, T. (2020). MiRNA-181a is a novel regulator of aldosterone-mineralocorticoid receptor-mediated cardiac remodelling *Eur J Heart Fail* *22*, 1366-1377. DOI: 10.1002/ehfj.1813

Herkt, M., Foinquinos, A., Batkai, S., Thum, T., Pich, A. (2020). Pharmacokinetic Studies of Antisense Oligonucleotides Using MALDI-TOF Mass Spectrometry *Front Pharmacol* *11*, 220. DOI: 10.3389/fphar.2020.00220

- Hinkel, R., Ramanujam, D., Kaczmarek, V., Howe, A., Klett, K., Beck, C., Dueck, A., Thum, T., Laugwitz, K.L., Maegdefessel, L., Weber, C., Kupatt, C., Engelhardt, S. (2020). AntimiR-21 Prevents Myocardial Dysfunction in a Pig Model of Ischemia/Reperfusion Injury *J Am Coll Cardiol* *75*,1788-1800. DOI: 10.1016/j.jacc.2020.02.041
- Hobuss, L., Foinquinos, A., Jung, M., Kenneweg, F., Xiao, K., Wang, Y., Zimmer, K., Remke, J., Just, A., Nowak, J., Schmidt, A., Pich, A., Mazlan, S., Reamon-Buettner, S.M., Ramos, G.C., Frantz, S., Viereck, J., Loyer, X., Boulanger, C., Wollert, K.C., Fiedler, J., Thum, T. (2020). Pleiotropic cardiac functions controlled by ischemia-induced lncRNA H19 *J Mol Cell Cardiol* *146*,43-59. DOI: 10.1016/j.yjmcc.2020.07.001
- Hunkler, H.J., Hoepfner, J., Huang, C.K., Chatterjee, S., Jara-Avaca, M., Gruh, I., Bolesani, E., Zweigerdt, R., Thum, T., Bär, C. (2020). The Long Non-coding RNA Cyano Is Dispensable for Pluripotency of Murine and Human Pluripotent Stem Cells *Stem Cell Reports* *15*,13-21. DOI: 10.1016/j.stemcr.2020.05.011
- Jansing, J.C., Fiedler, J., Pich, A., Viereck, J., Thum, T., Mühlfeld, C., Brandenberger, C. (2020). miR-21-KO Alleviates Alveolar Structural Remodeling and Inflammatory Signaling in Acute Lung Injury *Int J Mol Sci* *21*,E822. DOI: 10.3390/ijms21030822
- Kumstel, S., Janssen-Peters, H., Abdelrahman, A., Tang, G., Xiao, K., Ernst, N., Wendt, E.H.U., Palme, R., Seume, N., Vollmar, B., Thum, T., Zechner, D. (2020). MicroRNAs as systemic biomarkers to assess distress in animal models for gastrointestinal diseases *Sci Rep* *10*,16931-020-73972-7. DOI: 10.1038/s41598-020-73972-7
- Lu, D., Chatterjee, S., Xiao, K., Riedel, I., Wang, Y., Foo, R., Bär, C., Thum, T. (2020). MicroRNAs targeting the SARS-CoV-2 entry receptor ACE2 in cardiomyocytes *J Mol Cell Cardiol* *148*,46-49. DOI: 10.1016/j.yjmcc.2020.08.017
- Meinecke, A., Mitzka, S., Just, A., Cushman, S., Stojanovic, S.D., Xiao, K., Mooren, F.C., Fiedler, J., Thum, T. (2020). Cardiac endurance training alters plasma profiles of circular RNA MBOAT2 *Am J Physiol Heart Circ Physiol* *319*,H13-H21. DOI: 10.1152/ajpheart.00067.2020
- Mester-Tonczar, J., Winkler, J., Einzinger, P., Hasimbegovic, E., Kastner, N., Lukovic, D., Zlabinger, K., Spannauer, A., Traxler, D., Batkai, S., Thum, T., Gyöngyösi, M. (2020). Association between Circular RNA CDR1as and Post-Infarction Cardiac Function in Pig Ischemic Heart Failure: Influence of the Anti-Fibrotic Natural Compounds Bufalin and Lycorine Biomolecules *10*,DOI: 10.3390/biom10081180
- Pfeffer, T.J., Herrmann, J., Berliner, D., König, T., Winter, L., Ricke-Hoch, M., Ponimaskin, E., Schuchardt, S., Thum, T., Hilfiker-Kleiner, D., Bauersachs, J., Kahl, K.G. (2020). Assessment of major mental disorders in a German peripartum cardiomyopathy cohort *ESC Heart Fail* *7*,4394-4398. DOI: 10.1002/ehf2.12967
- Schimmel, K., Jung, M., Foinquinos, A., Jose, G.S., Beaumont, J., Bock, K., Grote-Levi, L., Xiao, K., Bär, C., Pfanne, A., Just, A., Zimmer, K., Ngoy, S., Lopez, B., Ravassa, S., Samolovac, S., Janssen-Peters, H., Remke, J., Scherf, K., Dangwal, S., Piccoli, M.T., Kleemiss, F., Kreutzer, F.P., Kenneweg, F., Leonardy, J., Hobuss, L., Santer, L., Do, Q.T., Geffers, R., Braesen, J.H., Schmitz, J., Brandenberger, C., Müller, D.N., Wilck, N., Kaefer, V., Bahre, H., Batkai, S., Fiedler, J., Alexander, K.M., Wertheim, B.M., Fisch, S., Liao, R., Diez, J., Gonzalez, A., Thum, T. (2020). Natural Compound Library Screening Identifies New Molecules for the Treatment of Cardiac Fibrosis and Diastolic Dysfunction. *Circulation* *141*,751-767. DOI: 10.1161/CIRCULATIONAHA.119.042559
- Schimmel, K., Stojanovic, S.D., Huang, C.K., Jung, M., Meyer, M.H., Xiao, K., Grote-Levi, L., Bär, C., Pfanne, A., Mitzka, S., Just, A., Geffers, R., Bock, K., Kenneweg, F., Kleemiss, F., Falk, C.S., Fiedler, J., Thum, T. (2020). Combined high-throughput library screening and next generation RNA sequencing uncover microRNAs controlling human cardiac fibroblast biology *J Mol Cell Cardiol* *150*,91-100. DOI: 10.1016/j.yjmcc.2020.10.008
- Sieweke, J.T., Pfeffer, T.J., Biber, S., Chatterjee, S., Weissenborn, K., Grosse, G.M., Hagemus, J., Derda, A.A., Berliner, D., Lichtinghagen, R., Hilfiker-Kleiner, D., Bauersachs, J., Bär, C., Thum, T., Bavendiek, U. (2020). miR-21 and NT-proBNP Correlate with Echocardiographic Parameters of Atrial Dysfunction and Predict Atrial Fibrillation *J Clin Med* *9*,DOI: 10.3390/jcm9041118
- Stojanovic, S.D., Fuchs, M., Fiedler, J., Xiao, K., Meinecke, A., Just, A., Pich, A., Thum, T., Kunz, M. (2020). Comprehensive Bioinformatics Identifies Key microRNA Players in ATG7-Deficient Lung Fibroblasts *Int J Mol Sci* *21*,DOI: 10.3390/ijms21114126
- Stojanovic, S.D., Fuchs, M., Kunz, M., Xiao, K., Just, A., Pich, A., Bauersachs, J., Fiedler, J., Sedding, D., Thum, T. (2020). Inflammatory Drivers of Cardiovascular Disease: Molecular Characterization of Senescent Coronary Vascular Smooth Muscle Cells *Front Physiol* *11*,520. DOI: 10.3389/fphys.2020.00520
- Täubel, J., Hauke, W., Rump, S., Viereck, J., Batkai, S., Poetzsch, J., Rode, L., Weigt, H., Genschel, C., Lorch, U., Theek, C., Levin, A.A., Bauersachs, J., Solomon, S.D., Thum, T. (2021). Novel antisense therapy targeting microRNA-132 in patients with heart failure: results of a first-in-human Phase 1b randomized, double-blind, placebo-controlled study *Eur Heart J* *42*,178-188. DOI: 10.1093/eurheartj/ehaa898

Viereck, J., Bührke, A., Foinquinos, A., Chatterjee, S., Kleeberger, J.A., Xiao, K., Janssen-Peters, H., Batkai, S., Ramanujam, D., Kraft, T., Cebotari, S., Gueler, F., Beyer, A.M., Schmitz, J., Bräsen, J.H., Schmitto, J.D., Gyöngyösi, M., Löser, A., Hirt, M.N., Eschenhagen, T., Engelhardt, S., Bär, C., Thum, T. (2020). Targeting muscle-enriched long non-coding RNA H19 reverses pathological cardiac hypertrophy. *Eur Heart J* *41*,3462-3474. DOI: 10.1093/eurheartj/ehaa519

Vilades, D., Martinez-Cambor, P., Ferrero-Gregori, A., Bär, C., Lu, D., Xiao, K., Veá, A., Nasarre, L., Sanchez Vega, J., Leta, R., Carreras, F., Thum, T., Llorente-Cortes, V., de Gonzalo-Calvo, D. (2020). Plasma circular RNA hsa_circ_0001445 and coronary artery disease: Performance as a biomarker *FASEB J* *34*,4403-4414. DOI: 10.1096/fj.201902507R

Vonhögen, I.G.C., Mohseni, Z., Winkens, B., Xiao, K., Thum, T., Calore, M., da Costa Martins, P.A., de Windt, L.J., Spaanderman, M.E.A., Ghossein-Doha, C. (2020). Circulating miR-216a as a biomarker of metabolic alterations and obesity in women *Noncoding RNA Res* *5*,144-152. DOI: 10.1016/j.ncrna.2020.08.001

Yazicioglu, T., Mühlfeld, C., Autilio, C., Huang, C.K., Bär, C., Dittrich-Breiholz, O., Thum, T., Perez-Gil, J., Schmiedl, A., Brandenberger, C. (2020). Aging impairs alveolar epithelial type II cell function in acute lung injury *Am J Physiol Lung Cell Mol Physiol* *319*,L755-L769. DOI: 10.1152/ajplung.00093.2020

Übersichtsarbeiten

Abbas, N., Perbellini, F., Thum, T. (2020). Non-coding RNAs: emerging players in cardiomyocyte proliferation and cardiac regeneration *Basic Res Cardiol* *115*,52. DOI: 10.1007/s00395-020-0816-0

Bär, C., Chatterjee, S., Falcao Pires, I., Rodrigues, P., Sluijter, J.P.G., Boon, R.A., Nevado, R.M., Andres, V., Sansonetti, M., de Windt, L., Ciccarelli, M., Hamdani, N., Heymans, S., Figuinha Videira, R., Tocchetti, C.G., Giacca, M., Zacchigna, S., Engelhardt, S., Dimmeler, S., Madonna, R., Thum, T. (2020). Non-coding RNAs: update on mechanisms and therapeutic targets from the ESC Working Groups of Myocardial Function and Cellular Biology of the Heart *Cardiovasc Res* *116*,1805-1819. DOI: 10.1093/cvr/cvaa195

Bayes-Genis, A., Liu, P.P., Lanfear, D.E., de Boer, R.A., Gonzalez, A., Thum, T., Emdin, M., Januzzi, J.L. (2020). Omics phenotyping in heart failure: the next frontier *Eur Heart J* *41*,3477-3484. DOI: 10.1093/eurheartj/ehaa270

Celutkiene, J., Pudil, R., Lopez-Fernandez, T., Grapsa, J., Nihoyannopoulos, P., Bergler-Klein, J., Cohen-Solal, A., Farmakis, D., Tocchetti, C.G., von Haehling, S., Barberis, V., Flachskampf, F.A., Ceponiene, I., Haegler-Laube, E., Suter, T., Lapinskas, T., Prasad, S., de Boer, R.A., Wechalekar, K., Anker, M.S., Iakobishvili, Z., Bucciarelli-Ducci, C., Schulz-Menger, J., Cosyns, B., Gaemperli, O., Belenkov, Y., Hulot, J.S., Galderisi, M., Lancellotti, P., Bax, J., Marwick, T.H., Chioncel, O., Jaarsma, T., Mullens, W., Piepoli, M., Thum, T., Heymans, S., Mueller, C., Moura, B., Ruschitzka, F., Zamorano, J.L., Rosano, G., Coats, A.J.S., Asteggiano, R., Seferovic, P., Edvardsen, T., Lyon, A.R. (2020). Role of cardiovascular imaging in cancer patients receiving cardiotoxic therapies: a position statement on behalf of the Heart Failure Association (HFA), the European Association of Cardiovascular Imaging (EACVI) and the Cardio-Oncology Council of the European Society of Cardiology (ESC) *Eur J Heart Fail* *22*,1504-1524. DOI: 10.1002/ehjhf.1957

de Boer, R.A., Hulot, J.S., Tocchetti, C.G., Aboumsallem, J.P., Ameri, P., Anker, S.D., Bauersachs, J., Bertero, E., Coats, A.J.S., Celutkiene, J., Chioncel, O., Dodion, P., Eschenhagen, T., Farmakis, D., Bayes-Genis, A., Jäger, D., Jankowska, E.A., Kitsis, R.N., Konety, S.H., Larkin, J., Lehmann, L., Lenihan, D.J., Maack, C., Moslehi, J.J., Müller, O.J., Nowak-Sliwinska, P., Piepoli, M.F., Ponikowski, P., Pudil, R., Rainer, P.P., Ruschitzka, F., Sawyer, D., Seferovic, P.M., Suter, T., Thum, T., van der Meer, P., Van Laake, L.W., von Haehling, S., Heymans, S., Lyon, A.R., Backs, J. (2020). Common mechanistic pathways in cancer and heart failure. A scientific roadmap on behalf of the Translational Research Committee of the Heart Failure Association (HFA) of the European Society of Cardiology (ESC) *Eur J Heart Fail* *22*,2272-2289. DOI: 10.1002/ehjhf.2029

Gross, S., Jahn, C., Cushman, S., Bär, C., Thum, T. (2020). SARS-CoV-2 receptor ACE2-dependent implications on the cardiovascular system: From basic science to clinical implications *J Mol Cell Cardiol* *144*,47-53. DOI: 10.1016/j.yjmcc.2020.04.031

Gupta, S.K., Kumari, S., Singh, S., Barthwal, M.K., Singh, S.K., Thum, T. (2020). Non-coding RNAs: Regulators of valvular calcification *J Mol Cell Cardiol* *142*,14-23. DOI: 10.1016/j.yjmcc.2020.03.015

Harjola, V.P., Parisis, J., Bauersachs, J., Brunner-La Rocca, H.P., Bueno, H., Celutkiene, J., Chioncel, O., Coats, A.J.S., Collins, S.P., de Boer, R.A., Filippatos, G., Gayat, E., Hill, L., Laine, M., Lassus, J., Lommi, J., Masip, J., Mebazaa, A., Metra, M., Miro, O., Mortara, A., Mueller, C., Mullens, W., Peacock, W.F., Pentikainen, M., Piepoli, M.F., Polyzogopoulou, E., Rudiger, A., Ruschitzka, F., Seferovic, P., Sionis, A., Teerlink, J.R., Thum, T., Varpula, M., Weinstein, J.M., Yilmaz, M.B. (2020). Acute coronary syndromes and acute heart failure: a diagnostic dilemma and high-risk combination. A statement from the Acute Heart Failure Committee of the Heart Failure Association of the European Society of Cardiology *Eur J Heart Fail* *22*,1298-1314. DOI: 10.1002/ehjhf.1831

Herkt, M., Thum, T. (2020). Pharmacokinetics and Proceedings in Clinical Application of Nucleic Acid Therapeutics *Mol Ther* DOI: 10.1016/j.yymthe.2020.11.008

Huang, C.K., Bär, C., Thum, T. (2020).miR-21, Mediator, and Potential Therapeutic Target in the Cardiorenal Syndrome *Front Pharmacol* 11,726. DOI: 10.3389/fphar.2020.00726

Huang, C.K., Kafert-Kasting, S., Thum, T. (2020).Preclinical and Clinical Development of Noncoding RNA Therapeutics for Cardiovascular Disease *Circ Res* 126,663-678. DOI: 10.1161/CIRCRESAHA.119.315856

Lyon, A.R., Dent, S., Stanway, S., Earl, H., Brezden-Masley, C., Cohen-Solal, A., Tocchetti, C.G., Moslehi, J.J., Groarke, J.D., Bergler-Klein, J., Khoo, V., Tan, L.L., Anker, M.S., von Haehling, S., Maack, C., Pudil, R., Barac, A., Thavendiranathan, P., Ky, B., Neilan, T.G., Belenkov, Y., Rosen, S.D., Iakobishvili, Z., Sverdlov, A.L., Hajjar, L.A., Macedo, A.V.S., Manisty, C., Ciardiello, F., Farmakis, D., de Boer, R.A., Skouri, H., Suter, T.M., Cardinale, D., Witteles, R.M., Fradley, M.G., Herrmann, J., Cornell, R.F., Wechelaker, A., Mauro, M.J., Milojkovic, D., de Lavallade, H., Ruschitzka, F., Coats, A.J.S., Seferovic, P.M., Chioncel, O., Thum, T., Bauersachs, J., Andres, M.S., Wright, D.J., Lopez-Fernandez, T., Plummer, C., Lenihan, D. (2020).Baseline cardiovascular risk assessment in cancer patients scheduled to receive cardiotoxic cancer therapies: a position statement and new risk assessment tools from the Cardio-Oncology Study Group of the Heart Failure Association of the European Society of Cardiology in collaboration with the International Cardio-Oncology Society *Eur J Heart Fail* 22,1945-1960. DOI: 10.1002/ehf.1920

Ruiz-Meana, M., Bou-Teen, D., Ferdinandy, P., Gyongyosi, M., Pesce, M., Perrino, C., Schulz, R., Sluijter, J.P.G., Tocchetti, C.G., Thum, T., Madonna, R. (2020).Cardiomyocyte ageing and cardioprotection: consensus document from the ESC working groups cell biology of the heart and myocardial function *Cardiovasc Res* 116,1835-1849. DOI: 10.1093/cvr/cvaa132

Sansonetti, M., Waleczek, F.J.G., Jung, M., Thum, T., Perbellini, F. (2020).Resident cardiac macrophages: crucial modulators of cardiac (patho)physiology *Basic Res Cardiol* 115,77. DOI: 10.1007/s00395-020-00836-6

Seferovic, P.M., Fragasso, G., Petrie, M., Mullens, W., Ferrari, R., Thum, T., Bauersachs, J., Anker, S.D., Ray, R., Cavusoglu, Y., Polovina, M., Metra, M., Ambrosio, G., Prasad, K., Seferovic, J., Jhund, P.S., Dattilo, G., Celutkiene, J., Piepoli, M., Moura, B., Chioncel, O., Ben Gal, T., Heymans, S., de Boer, R.A., Jaarsma, T., Hill, L., Lopatin, Y., Lyon, A.R., Ponikowski, P., Lainscak, M., Jankowska, E., Mueller, C., Co-sentino, F., Lund, L., Filippatos, G.S., Ruschitzka, F., Coats, A.J.S., Rosano, G.M.C. (2020).Sodium-glucose co-transporter 2 inhibitors in heart failure: beyond glycaemic control. A position paper of the Heart Failure Association of the European Society of Cardiology *Eur J Heart Fail* 22,1495-1503. DOI: 10.1002/ehf.1954

Steffens, S., Van Linthout, S., Sluijter, J.P.G., Tocchetti, C.G., Thum, T., Madonna, R. (2020).Stimulating pro-reparative immune responses to prevent adverse cardiac remodelling: consensus document from the joint 2019 meeting of the ESC Working Groups of cellular biology of the heart and myocardial function *Cardiovasc Res* 116,1850-1862. DOI: 10.1093/cvr/cvaa137

Stojanovic, S.D., Fiedler, J., Bauersachs, J., Thum, T., Sedding, D.G. (2020).Senescence-induced inflammation: an important player and key therapeutic target in atherosclerosis *Eur Heart J* 41,2983-2996. DOI: 10.1093/eurheartj/ehz919

Tocchetti, C.G., Ameri, P., de Boer, R.A., D'Alessandra, Y., Russo, M., Sorriento, D., Ciccarelli, M., Kiss, B., Bertrand, L., Dawson, D., Falcao-Pires, I., Giacca, M., Hamdani, N., Linke, W.A., Mayr, M., van der Velden, J., Zacchigna, S., Ghigo, A., Hirsch, E., Lyon, A.R., Görbe, A., Ferdinandy, P., Madonna, R., Heymans, S., Thum, T. (2020).Cardiac dysfunction in cancer patients: beyond direct cardiomyocyte damage of anticancer drugs: novel cardio-oncology insights from the joint 2019 meeting of the ESC Working Groups of Myocardial Function and Cellular Biology of the Heart *Cardiovasc Res* 116,1820-1834. DOI: 10.1093/cvr/cvaa222

Watson, S.A., Dendorfer, A., Thum, T., Perbellini, F. (2020).A practical guide for investigating cardiac physiology using living myocardial slices *Basic Res Cardiol* 115,61. DOI: 10.1007/s00395-020-00822-y

Zacchigna, S., Paldino, A., Falcao-Pires, I., Daskalopoulos, E.P., Dal Ferro, M., Vodret, S., Lesizza, P., Cannata, A., Miranda-Silva, D., Lourenco, A.P., Pinamonti, B., Sinagra, G., Weinberger, F., Eschenhagen, T., Carrier, L., Kehat, I., Tocchetti, C.G., Russo, M., Ghigo, A., Cimino, J., Hirsch, E., Dawson, D., Ciccarelli, M., Olivetti, M., Linke, W.A., Cuijpers, I., Heymans, S., Hamdani, N., de Boer, M., Duncker, D.J., Kuster, D., van der Velden, J., Beauloye, C., Bertrand, L., Mayr, M., Giacca, M., Leuschner, F., Backs, J., Thum, T. (2021).Towards standardization of echocardiography for the evaluation of left ventricular function in adult rodents: a position paper of the ESC Working Group on Myocardial Function *Cardiovasc Res* 117,43-59. DOI: 10.1093/cvr/cvaa110

Letter

Wang, Y., Foo, R., Thum, T. (2020).Using "old" medications to fight new COVID-19: Re-purposing with a purpose *J Mol Cell Cardiol* 146,41-42. DOI: 10.1016/j.jmcc.2020.07.005

Editorials

Gross, S., Thum, T. (2020).TGF-beta Inhibitor CILP as a Novel Biomarker for Cardiac Fibrosis *JACC Basic Transl Sci* 5,444-446. DOI: 10.1016/j.jacbts.2020.03.013

Pesce, M., Bär, C., Madonna, R., Thum, T. (2020). Debating new strategies for cardiac protection in the ageing heart in Naples, Italy: news from the joint meeting of the ESC Working Groups of Myocardial Function and Cellular Biology of the Heart *Cardiovasc Res* 116,1802-1804. DOI: 10.1093/cvr/cvaa218

Thum, T. (2020). SARS-CoV-2 receptor ACE2 expression in the human heart: cause of a post-pandemic wave of heart failure? *Eur Heart J* 41,1807-1809. DOI: 10.1093/eurheartj/ehaa410

Abstracts

Ius, F., Sommer, W., Rojas, S.V., Kaufeld, T., Bara, C., Salman, J., Poyanmehr, R., Avsar, M., Tudorache, I., Falk, C.S., Haverich, A., Warnecke, G. (2020). Treatment of Anti-HLA Donor-Specific Antibodies in Heart Transplantation: A Single-Center Experience. *J Heart Lung Transplant* 39,5241. DOI: 10.1016/j.healun.2020.01.916

Ius, F., Sommer, W., Salman, J., Siemeni, T., Kühn, C., Avsar, M., Schwerk, N., Müller, C., Falk, C., Haverich, A., Tudorache, I., Warnecke, G. (2020). Six-Year Results of an IgA- and IgM-Enriched Immunoglobulin-Based Therapy for Early Detectable Anti-HLA Donor Specific Antibodies in Lung Transplantation. *J Heart Lung Transplant* 39,580. DOI: 10.1016/j.healun.2020.01.1302

sonstiges

Kafert-Kasting, S., Thum, T. (2020). The Institute of Molecular and Translational Therapeutic Strategies, Hannover Medical School, Germany *Eur Heart J* 41,1459-1461. DOI: 10.1093/eurheartj/ehaa113

Thum, T. (2020). The ESC Working Group on Myocardial Function *Eur Heart J* 41,2346-2348. DOI: 10.1093/eurheartj/ehaa369

Promotionen

Chatterjee, S. (2019). Molecular analysis of telomerase in cardiac development and protection. Dissertation, Medizinische Hochschule Hannover, 2020

Dettling, A.D. (2018). Die pro-regenerative Rolle der langen nicht-kodierenden RNA H19 im ischämischen akuten Nierenversagen als Teil eines embryonalen Genprogramms. Dissertation, Medizinische Hochschule Hannover, 2020

Garg, A. (2020). Regulation, diagnostics and therapy focusing on the mineralocorticoid receptor involved in cardiac remodeling Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Grote-Levi, L.M. (2018). Identification and functional characterization of anti-fibrotic natural compounds in vitro Dissertation, Medizinische Hochschule Hannover, 2020

Hobuß, L. (2019). Investigation of the regulation and function of long noncoding RNA H19 in hypoxic cardiomyocytes in vitro and after myocardial infarction in vivo. Dissertation, Medizinische Hochschule Hannover, 2020

Zentrum Laboratoriumsmedizin

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Originalpublikationen

Abdissa, K., Ruangkiattikul, N., Ahrend, W., Nerlich, A., Beineke, A., Laarmann, K., Janze, N., Lobermeyer, U., Suwandi, A., Falk, C., Schleicher, U., Weiss, S., Bogdan, C., Goethe, R. (2020). Relevance of inducible nitric oxide synthase for immune control of *Mycobacterium avium* subspecies paratuberculosis infection in mice. *Virulence* 11,465-481. DOI: 10.1080/21505594.2020.1763055

Albert, K., Krischer, J.M., Pfaffenroth, A., Wilde, S., Lopez-Rodriguez, E., Braun, A., Smith, B.J., Knudsen, L. (2020). Hidden Microatelectases Increase Vulnerability to Ventilation-Induced Lung Injury. *Front Physiol* 11,530485. DOI: 10.3389/fphys.2020.530485

Behrens, G.M.N., Cossmann, A., Stankov, M.V., Schulte, B., Streeck, H., Förster, R., Bosnjak, B., Willenzon, S., Boeck, A.L., Thu Tran, A., Thiele, T., Graalmann, T., Kayser, M.Z., Zychlinsky Scharff, A., Dopfer, C., Horke, A., Pink, I., Witte, T., Wetzke, M., Ernst, D., Jablonka, A., Happle, C. (2020). Strategic Anti-SARS-CoV-2 Serology Testing in a Low Prevalence Setting: The COVID-19 Contact (CoCo) Study in Healthcare Professionals *Infect Dis Ther* 9,837-849. DOI: 10.1007/s40121-020-00334-1

Bogorodskiy, A.O., Bolkhovitina, E.L., Gensch, T., Troyanova, N.I., Mishin, A.V., Okhrimenko, I.S., Braun, A., Spies, E., Gordeliy, V.I., Sapozhnikov, A.M., Borshchevskiy, V.I., Shevchenko, M.A. (2020). Murine Intraepithelial Dendritic Cells Interact With Phagocytic Cells During *Aspergillus fumigatus*-Induced Inflammation. *Front Immunol* *11*,298. DOI: 10.3389/fimmu.2020.00298

Bosnjak, B., Stein, S.C., Willenzon, S., Cordes, A.K., Puppe, W., Bernhardt, G., Ravens, I., Ritter, C., Schultze-Florey, C.R., Gödecke, N., Martens, J., Kleine-Weber, H., Hoffmann, M., Cossmann, A., Yilmaz, M., Pink, I., Hoeper, M.M., Behrens, G.M.N., Pöhlmann, S., Blasczyk, R., Schulz, T.F., Forster, R. (2021). Low serum neutralizing anti-SARS-CoV-2 S antibody levels in mildly affected COVID-19 convalescent patients revealed by two different detection methods *Cell Mol Immunol* *18*,936-944. DOI: 10.1038/s41423-020-00573-9

Donnert, M., Elsheikh, S., Arce-Rodriguez, A., Pawar, V., Braubach, P., Jonigk, D., Haverich, A., Weiss, S., Müsken, M., Häussler, S. (2020). Targeting bioenergetics is key to counteracting the drug-tolerant state of biofilm-grown bacteria *PLoS Pathog* *16*,e1009126. DOI: 10.1371/journal.ppat.1009126

Fichtner, A.S., Bubke, A., Rampoldi, F., Wilharm, A., Tan, L., Steinbrück, L., Schultze-Florey, C., von Kaisenberg, C., Prinz, I., Herrmann, T., Ravens, S. (2020). TCR repertoire analysis reveals phosphoantigen-induced polyclonal proliferation of Vgamma9Vdelta2 T cells in neonates and adults. *J Leukoc Biol* *107*,1023-1032. DOI: 10.1002/JLB.1MA0120-427RR

Förster, R., Fleige, H., Sutter, G. (2020). Combating COVID-19: MVA Vector Vaccines Applied to the Respiratory Tract as Promising Approach Toward Protective Immunity in the Lung. *Front Immunol* *11*,1959. DOI: 10.3389/fimmu.2020.01959

Goethe, R., Basler, T., Meissner, T., Goethe, E., Sproer, C., Swiderski, J., Gerlach, G.F., Weiss, S., Jarek, M., Bunk, B. (2020). Complete Genome Sequence and Manual Reannotation of *Mycobacterium avium* subsp. *paratuberculosis* Strain DSM 44135. *Microbiol Resour Anounc* *9*,e00711-20 [pii]. DOI: 10.1128/MRA.00711

Habener, A., Happle, C., Grychtol, R.M., Skuljec, J., Busse, M., Dalüge, K., Obernolte, H., Sewald, K., Braun, A., Meyer-Bahlburg, A., Hansen, G. (2021). Regulatory B cells control airway hyperreactivity and lung remodeling in a murine asthma model *J Allergy Clin Immunol* *147*,2281-2294.e7. DOI: 10.1016/j.jaci.2020.09.041

Helmke, A., Hüsing, A.M., Gaedcke, S., Brauns, N., Balzer, M.S., Reinhardt, M., Hiss, M., Shushakova, N., de Luca, D., Prinz, I., Haller, H., von Vietinghoff, S. (2021). Peritoneal dialysate-range hypertonic glucose promotes T-cell IL-17 production that induces mesothelial inflammation *Eur J Immunol* *51*,354-367. DOI: 10.1002/eji.202048733

Janssen, A., Villacorta Hidalgo, J., Beringer, D.X., van Dooremalen, S., Fernando, F., van Diest, E., Terrizi, A.R., Bronsert, P., Kock, S., Schmitt-Gräff, A., Werner, M., Heise, K., Follo, M., Straetmans, T., Sebestyen, Z., Chudakov, D.M., Kasatskaya, S.A., Frenkel, F.E., Ravens, S., Spierings, E., Prinz, I., Küppers, R., Malkovsky, M., Fisch, P., Kuball, J. (2020). gamma delta T-cell Receptors Derived from Breast Cancer-Infiltrating T Lymphocytes Mediate Antitumor Reactivity. *Cancer Immunol Res* *8*,530-543. DOI: 10.1158/2326-6066.CIR-19-0513

Jirno, A.C., Busse, M., Happle, C., Skuljec, J., Dalüge, K., Habener, A., Grychtol, R., DeLuca, D.S., Breiholz, O.D., Prinz, I., Hansen, G. (2020). IL-17 regulates DC migration to the peribronchial LNs and allergen presentation in experimental allergic asthma *Eur J Immunol* *50*,1019-1033. DOI: 10.1002/eji.201948409

Klein, S., Ghersi, D., Manns, M.P., Prinz, I., Cornberg, M., Kraft, A.R.M. (2020). PD-L1 checkpoint inhibition narrows the antigen-specific T cell receptor repertoire in chronic LCMV infection *J Virol* *94*,e00795-20. DOI: 10.1128/JVI.00795-20

Koren, N., Zubeidat, K., Saba, Y., Horev, Y., Barel, O., Wilharm, A., Heyman, O., Wald, S., Eli-Berchoer, L., Shapiro, H., Nadler, C., Elinav, E., Wilensky, A., Prinz, I., Bercovier, H., Avi-Hai, H. (2021). Maturation of the neonatal oral mucosa involves unique epithelium-microbiota interactions. *Cell Host Microbe* *29*,197-209.e5. DOI: 10.1016/j.chom.2020.12.006

Macleod, T., Ainscough, J.S., Hesse, C., Konzok, S., Braun, A., Buhl, A.L., Wenzel, J., Bowyer, P., Terao, Y., Herrick, S., Wittmann, M., Stacey, M. (2020). The Proinflammatory Cytokine IL-36gamma Is a Global Discriminator of Harmless Microbes and Invasive Pathogens within Epithelial Tissues. *Cell Rep* *33*,108515. DOI: 10.1016/j.celrep.2020.108515

Martens, R., Permanyer, M., Werth, K., Yu, K., Braun, A., Halle, O., Halle, S., Patzer, G.E., Bosnjak, B., Kiefer, F., Janssen, A., Friedrichsen, M., Poetzsch, J., Kohli, K., Lueder, Y., Gutierrez Jauregui, R., Eckert, N., Worbs, T., Galla, M., Förster, R. (2020). Efficient homing of T cells via afferent lymphatics requires mechanical arrest and integrin-supported chemokine guidance. *Nat Commun* *11*,1114. DOI: 10.1038/s41467-020-14921-w

Mattner, A., Zimmermann, L., Lienenklaus, S., Weiss, S., Wickleder, C. (2020). Tailoring long lasting luminescence of red-emitting CaWO₄:Eu³⁺, Sm³⁺ nanoparticles with enhanced crystallinity for improved bio-imaging. *Ceram Int* *46*,26295-26298. DOI: 10.1016/j.ceramint.2020.03.036

- Möhn, N., Bruni, E., Schröder, A., Frömmel, S., Gueler, F., Vieten, G., Prinz, I., Kuebler, J.F., Petersen, C., Klemann, C. (2020). Synthetic retinoid AM80 inhibits IL-17 production of gamma delta T cells and ameliorates biliary atresia in mice. *Liver Int* *40*,3031-3041. DOI: 10.1111/liv.14639
- Moye, S., Bormann, T., Maus, R., Sparwasser, T., Sandrock, I., Prinz, I., Warnecke, G., Welte, T., Gaudie, J., Kolb, M., Maus, U.A. (2020). Regulatory T Cells Limit Pneumococcus-Induced Exacerbation of Lung Fibrosis in Mice. *J Immunol* *204*,2429-2438. DOI: 10.4049/jimmunol.1900980
- Nikolova, G., Weiss, S., Bosnjak, B., Förster, R. (2021). Differential retention of lymph-borne CD8 memory T cell subsets in the subcapsular sinus of resting and inflamed lymph nodes. *Cell Mol Immunol* *18*,1317-1319. DOI: 10.1038/s41423-020-0451-6
- Odak, I., Barros-Martins, J., Bosnjak, B., Stahl, K., David, S., Wiesner, O., Busch, M., Hoepfer, M.M., Pink, I., Welte, T., Cornberg, M., Stoll, M., Goudeva, L., Blasczyk, R., Ganser, A., Prinz, I., Förster, R., Koenecke, C., Schultze-Florey, C.R. (2020). Reappearance of effector T cells is associated with recovery from COVID-19. *EBioMedicine* *57*,102885. DOI: 10.1016/j.ebiom.2020.102885
- Odak, I., Depkat-Jakob, A., Beck, M., Jarek, M., Yu, Y., Seidler, U., David, S., Ganser, A., Förster, R., Prinz, I., Koenecke, C. (2020). Donor-derived IL-17A and IL-17F deficiency triggers Th1 allo-responses and increases gut leakage during acute GVHD. *PLoS One* *15*,e0231222. DOI: 10.1371/journal.pone.0231222
- Papadogianni, G., Ravens, I., Dittrich-Breiholz, O., Bernhardt, G., Georgiev, H. (2020). Impact of Aging on the Phenotype of Invariant Natural Killer T Cells in Mouse Thymus. *Front Immunol* *11*,575764. DOI: 10.3389/fimmu.2020.575764
- Rastogi, A., Robert, P.A., Halle, S., Meyer-Hermann, M. (2020). Evaluation of CD8 T cell killing models with computer simulations of 2-photon imaging experiments. *PLoS Comput Biol* *16*,e1008428. DOI: 10.1371/journal.pcbi.1008428
- Ravens, S., Fichtner, A.S., Willers, M., Torkornoo, D., Pirr, S., Schöning, J., Deseke, M., Sandrock, I., Bubke, A., Wilharm, A., Dadoo, D., Egyir, B., Flanagan, K.L., Steinbrück, L., Dickinson, P., Ghazal, P., Adu, B., Viemann, D., Prinz, I. (2020). Microbial exposure drives polyclonal expansion of innate gammadelta T cells immediately after birth. *Proc Natl Acad Sci U S A* *117*,18649-18660. DOI: 10.1073/pnas.1922588117
- Reamon-Buettner, S.M., Hackbarth, A., Leonhardt, A., Braun, A., Ziemann, C. (2021). Cellular senescence as a response to multiwalled carbon nanotube (MWCNT) exposure in human mesothelial cells. *Mech Ageing Dev* *193*,111412. DOI: 10.1016/j.mad.2020.111412
- Schaupp, L., Muth, S., Rogell, L., Kofoed-Branzk, M., Melchior, F., Lienenklaus, S., Ganai-Vonarburg, S.C., Klein, M., Guendel, F., Hain, T., Schütze, K., Grundmann, U., Schmitt, V., Dorsch, M., Spanier, J., Larsen, P.K., Schwanz, T., Jackel, S., Reinhardt, C., Bopp, T., Danckwardt, S., Mahnke, K., Heinz, G.A., Mashreghi, M.F., Durek, P., Kalinke, U., Kretz, O., Huber, T.B., Weiss, S., Wilhelm, C., Macpherson, A.J., Schild, H., Diefenbach, A., Probst, H.C. (2020). Microbiota-Induced Type I Interferons Instruct a Poised Basal State of Dendritic Cells. *Cell* *181*,1080-1096.e19. DOI: 10.1016/j.cell.2020.04.022
- Wilharm, A., Brigas, H.C., Sandrock, I., Ribeiro, M., Amado, T., Reinhardt, A., Demera, A., Hoenicke, L., Strowig, T., Carvalho, T., Prinz, I., Ribot, J.C. (2021). Microbiota-dependent expansion of testicular IL-17-producing Vgamma6(+) gammadelta T cells upon puberty promotes local tissue immune surveillance. *Mucosal Immunol* *14*,242-252. DOI: 10.1038/s41385-020-0330-6
- Willers, M., Ulas, T., Völlger, L., Vogl, T., Heinemann, A.S., Pirr, S., Pagel, J., Fehlhaber, B., Halle, O., Schöning, J., Schreek, S., Löber, U., Essex, M., Hombach, P., Graspeuntner, S., Basic, M., Bleich, A., Cloppenburg-Schmidt, K., Künzel, S., Jonigk, D., Rupp, J., Hansen, G., Förster, R., Baines, J.F., Härtel, C., Schultze, J.L., Forslund, S.K., Roth, J., Viemann, D. (2020). S100A8 and S100A9 are Important for Post-natal Development of Gut Microbiota and Immune System in Mice and Infants. *Gastroenterology* *159*,2130-2145.e5. DOI: 10.1053/j.gastro.2020.08.019
- Übersichtsarbeiten**
- Deseke, M., Prinz, I. (2020). Ligand recognition by the gammadelta TCR and discrimination between homeostasis and stress conditions. *Cell Mol Immunol* *17*,914-924. DOI: 10.1038/s41423-020-0503-y
- Fichtner, A.S., Ravens, S., Prinz, I. (2020). Human gammadelta TCR Repertoires in Health and Disease. *Cells* *9*,E800 [pii]. DOI: 10.3390/cells9040800
- Herrmann, T., Karunakaran, M.M., Fichtner, A.S. (2020). A glance over the fence: Using phylogeny and species comparison for a better understanding of antigen recognition by human gammadelta T-cells. *Immunol Rev* *298*,218-236. DOI: 10.1111/imr.12919
- Hovav, A.H., Wilharm, A., Barel, O., Prinz, I. (2020). Development and Function of gammadelta T Cells in the Oral Mucosa. *J Dent Res* *99*,498-505. DOI: 10.1177/0022034520908839

Lewejohann, L., Schwabe, K., Häger, C., Jirkof, P. (2020). Impulse for animal welfare outside the experiment. *Lab Anim* 54,150-158. DOI: 10.1177/0023677219891754

Rampoldi, F., Ullrich, L., Prinz, I. (2020). Revisiting the Interaction of γ T-Cells and B-Cells. *Cells* 9,743 [pii]. DOI: 10.3390/cells9030743

Promotionen

de Barros Martins, J.L. (2020). Investigating the role of miR-181ab-1 in development and function of intraepithelial lymphocytes. Dissertation, Medizinische Hochschule Hannover, 2020

Odak, I. (2019). Analysis and manipulation of donor T cells for the prevention of acute Graft versus Host disease Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Schröder, S. (2018). Steuerelemente bei der Wanderung dendritischer Zellen: Funktionelle Untersuchungen in der dreidimensionalen Kollagenmatrix zu CCR7-Liganden und Lymphknoten-Stromazellen. Dissertation, Medizinische Hochschule Hannover, 2020

Tan, L. (2020). Tissue adaptation of IL-17-producing γ T cells. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Institut für Klinische Chemie – 8110

Originalpublikationen

Alberts, A., Klingberg, A., Hoffmeister, L., Wessig, A.K., Brand, K., Pich, A., Neumann, K. (2020). Binding of Macrophage Receptor MARCO, LDL, and LDLR to Disease-Associated Crystalline Structures. *Front Immunol* 11,596103. DOI: 10.3389/fimmu.2020.596103

Alberts, A., Klingberg, A., Wessig, A.K., Combes, C., Witte, T., Brand, K., Pich, A., Neumann, K. (2020). C-reactive protein (CRP) recognizes uric acid crystals and recruits proteases C1 and MASP1. *Sci Rep* 10,6391. DOI: 10.1038/s41598-020-63318-8

Azibani, F., Pfeffer, T.J., Ricke-Hoch, M., Dowling, W., Pietzsch, S., Briton, O., Baard, J., Abou Moulig, V., König, T., Berliner, D., Libhaber, E., Schlothauer, S., Anthony, J., Lichtinghagen, R., Bauersachs, J., Sliwa, K., Hilfiker-Kleiner, D. (2020). Outcome in German and South African peripartum cardiomyopathy cohorts associates with medical therapy and fibrosis markers. *ESC Heart Fail* 7,512-522. DOI: 10.1002/ehf2.12553

Binder, G., Weber, K., Rieflin, N., Steinruck, L., Blumenstock, G., Janzen, N., Franz, A.R. (2020). Diagnosis of severe growth hormone deficiency in the newborn. *Clin Endocrinol (Oxf)* 93,305-311. DOI: 10.1111/cen.14264

Claus, R., Berliner, D., Bavendiek, U., Vodovar, N., Lichtinghagen, R., David, S., Patecki, M., Launay, J.M., Bauersachs, J., Haller, H., Hiss, M., Balzer, M.S. (2020). Soluble neprilysin, NT-proBNP, and growth differentiation factor-15 as biomarkers for heart failure in dialysis patients (SONGBIRD). *Clin Res Cardiol* 109,1035-1047. DOI: 10.1007/s00392-020-01597-x

Derlin, K., Hellms, S., Gutberlet, M., Peperhove, M., Jang, M.S., Greite, R., Hartung, D., Derlin, T., Fegbeutel, C., Tudorache, I., Jüttner, B., Wiese, B., Lichtinghagen, R., Haller, H., Haverich, A., Wacker, F., Warnecke, G., Gueller, F. (2020). Application of MR diffusion imaging for non-invasive assessment of acute kidney injury after lung transplantation *Medicine (Baltimore)* 99,e22445. DOI: 10.1097/MD.00000000000022445

Gillmann, H.J., Dieding, J., Schrimpf, C., Janssen, H., Sahlmann, B., Rustum, S., Aper, T., Lichtinghagen, R., Teebken, O.E., Theilmeier, G., Larmann, J. (2020). Prospective evaluation of preoperative lung ultrasound for prediction of perioperative outcome and myocardial injury in adult patients undergoing vascular surgery (LUPPO study) *Minerva Anestesiol* 86,1151-1160. DOI: 10.23736/S0375-9393.20.14393-1

Groh, A., Rhein, M., Roy, M., Gessner, C., Lichtinghagen, R., Heberlein, A., Hillemaier, T., Bleich, S., Walter, M., Frieling, H. (2020). Trauma Severity in Early Childhood Correlates with Stress and Satiety Hormone Levels in a Pilot Cohort Receiving Diamorphine Maintenance Treatment. *Eur Addict Res* 26,103-108. DOI: 10.1159/000505293

Grote-Koska, D., Brand, K. (2020). Using ISO/TS 20914:2019 to calculate the measurement uncertainty of immunosuppressive drugs in a clinical laboratory. *Scand J Clin Lab Invest* 80,309-312. DOI: 10.1080/00365513.2020.1731849

- Grote-Koska, D., Klauke, R., Kaiser, P., Kramer, U., Macdonald, R., Lerche, D., Staaden, A., Brand, K., Schumann, G. (2020). Total haemoglobin - a reference measuring system for improvement of standardisation. *Clin Chem Lab Med* *58*,1314-1321. DOI: 10.1515/ccclm-2019-1177
- Huber, R., Augsten, S., Kirsten, H., Zell, R., Stelzner, A., Thude, H., Eidner, T., Stuhlmüller, B., Ahnert, P., Kinne, R.W. (2020). Identification of New, Functionally Relevant Mutations in the Coding Regions of the Human Fos and Jun Proto-Oncogenes in Rheumatoid Arthritis Synovial Tissue Life (Basel) *11*,DOI: 10.3390/life11010005
- Huber, R., Stuhlmüller, B., Kunisch, E., Kinne, R.W. (2020). Discrepancy between Jun/Fos Proto-Oncogene mRNA and Protein Expression in the Rheumatoid Arthritis Synovial Membrane. *J* *3*,181-194. DOI: 10.3390/j3020015
- Janke, E., Groh, A., Mühle, C., Dürsteler-MacFarland, K.M., Wiesbeck, G.A., Kornhuber, J., Jahn, K., Groeschl, M., Lichtinghagen, R., Frieling, H., Bleich, S., Hillemacher, T., Lenz, B., Heberlein, A. (2021). Association of Testosterone Levels and Steroid 5-Alpha-Reductase 2 Polymorphisms with Opioid Craving. *Neuropsychobiology* *80*,64-73. DOI: 10.1159/000508681
- Janssen, H., Felgner, L., Kummer, L., Gillmann, H.J., Schrimpf, C., Rustum, S., Lichtinghagen, R., Sahlmann, B., Weigand, M.A., Teebken, O.E., Theilmeier, G., Larmann, J. (2020). Sequential Surgical Procedures in Vascular Surgery Patients Are Associated With Perioperative Adverse Cardiac Events. *Front Cardiovasc Med* *7*,13. DOI: 10.3389/fcvm.2020.00013
- Laeremans, H., Turner, C., Andersson, T., de Juan, J.A.C., Gerrard, A., Heiner-Fokkema, M.R., Herebian, D., Janzen, N., la Marca, G., Rudebeck, M. (2020). Inter-laboratory analytical improvement of succinylacetone and nitisinone quantification from dried blood spot samples. *JIMD Rep* *53*,90-102. DOI: 10.1002/jmd2.12112
- Rund, K.M., Nolte, F., Doricic, J., Greite, R., Schott, S., Lichtinghagen, R., Gueler, F., Schebb, N.H. (2020). Clinical blood sampling for oxylipin analysis - effect of storage and pneumatic tube transport of blood on free and total oxylipin profile in human plasma and serum. *Analyst* *145*,2378-2388. DOI: 10.1039/c9an01880h
- Sander, J., Terhardt, M., Janzen, N. (2020). Study on the Metabolic Effects of Repeated Consumption of Canned Ackee J Agric Food Chem *68*,14603-14609. DOI: 10.1021/acs.jafc.0c06235
- Sieweke, J.T., Pfeffer, T.J., Biber, S., Chatterjee, S., Weissenborn, K., Grosse, G.M., Hagemus, J., Derda, A.A., Berliner, D., Lichtinghagen, R., Hilfiker-Kleiner, D., Bauersachs, J., Bär, C., Thum, T., Bavendiek, U. (2020). miR-21 and NT-proBNP Correlate with Echocardiographic Parameters of Atrial Dysfunction and Predict Atrial Fibrillation J Clin Med *9*,DOI: 10.3390/jcm9041118
- Stahl, K., Bikker, R., Seeliger, B., Schmidt, J.J., Schenk, H., Schmidt, B.M.W., Welte, T., Haller, H., Hoeper, M.M., Brand, K., David, S. (2021). Effect of Therapeutic Plasma Exchange on Immunoglobulin Deficiency in Early and Severe Septic Shock J Intensive Care Med *36*,456. DOI: 10.1177/0885066620965169
- Stauss, R.D., Grosse, G.M., Neubert, L., Falk, C.S., Jonigk, D., Kühnel, M.P., Gabriel, M.M., Schuppner, R., Lichtinghagen, R., Wilhelmi, M., Weissenborn, K., Schrimpf, C. (2020). Distinct systemic cytokine networks in symptomatic and asymptomatic carotid stenosis. *Sci Rep* *10*,21963. DOI: 10.1038/s41598-020-78941-8
- Vaclavik, J., Madrova, L., Kouril, S., de Sousa, J., Brumarova, R., Janeckova, H., Jacova, J., Friedecky, D., Knapkova, M., Kluijtmans, L.A.J., Grünert, S.C., Vaz, F.M., Janzen, N., Wanders, R.J.A., Wevers, R.A., Adam, T. (2020). A newborn screening approach to diagnose 3-hydroxy-3-methylglutaryl-CoA lyase deficiency. *JIMD Rep* *54*,79-86. DOI: 10.1002/jmd2.12118
- van Gemmeren, T., Schuppner, R., Grosse, G.M., Fering, J., Gabriel, M.M., Huber, R., Worthmann, H., Lichtinghagen, R., Weissenborn, K. (2020). Early Post-Stroke Infections Are Associated with an Impaired Function of Neutrophil Granulocytes. *J Clin Med* *9*,E872 [pii]. DOI: 10.3390/jcm9030872
- Wehner, J.E., Boehne, M., David, S., Brand, K., Tiede, A., Bikker, R. (2020). Activated Clotting Time (ACT) for Monitoring of Low-Dose Heparin: Performance Characteristics in Healthy Adults and Critically Ill Patients Clin Appl Thromb Hemost *26*,DOI: 10.1177/1076029620975494
- Xin, L., Mika, J., Horbert, V., Bischoff, S., Schubert, H., Borowski, J., Maenz, S., Huber, R., Sachse, A., Illerhaus, B., Kinne, R.W. (2020). Systematic Postoperative Assessment of a Minimally-Invasive Sheep Model for the Treatment of Osteochondral Defects Life (Basel) *10*,DOI: 10.3390/life10120332
- Übersichtsarbeiten**
- Hoffmeister, L., Diekmann, M., Brand, K., Huber, R. (2020). GSK3: A Kinase Balancing Promotion and Resolution of Inflammation. *Cells* *9*,DOI: 10.3390/cells9040820

Letter

Frings-Meuthen, P., Luchitskaya, E., Jordan, J., Tank, J., Lichtinghagen, R., Smith, S.M., Heer, M. (2020). Natriuretic Peptide Resetting in Astronauts. *Circulation* *141*,1593-1595. DOI: 10.1161/CIRCULATIONAHA.119.044203

Promotionen

Alberts, A. (2020). Recognition of crystalline structures by the innate immune system. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Institut für Medizinische Mikrobiologie und Krankenhaushygiene – 5210

Originalpublikationen

Ahrenstorf, G., Jablonka, A., Ernst, D., Bange, F.C., Heiken, H., Witte, T., Schmidt, R.E., Stoll, M. (2021). Improved prognosis of infection with *M. genavense* in immune compromised HIV patients after introduction of combined antiretroviral therapy *J Acquir Immune Defic Syndr* *86*,e9-e12. DOI: 10.1097/QAI.0000000000002513

Baier, C., Albrecht, U.V., Ebadi, E., Vonberg, R.P., Schilke, R. (2020). Knowledge about hand hygiene in the Generation Z: A questionnaire-based survey among dental students, trainee nurses and medical technical assistants in training. *Am J Infect Control* *48*,708-712. DOI: 10.1016/j.ajic.2020.02.002

Baier, C., Ebadi, E., Mett, T.R., Stoll, M., Küther, G., Vogt, P.M., Bange, F.C. (2020). Epidemiologic and Molecular Investigation of a MRSA Outbreak Caused by a Contaminated Bathtub for Carbon Dioxide Hydrotherapy and Review of the Literature. *Can J Infect Dis Med Microbiol* *2020*,1613903. DOI: 10.1155/2020/1613903

Baier, C., Ipaktchi, R., Schwab, F., Smith, A., Liu, X., Ebadi, E., Limbourg, A., Mett, T.R., Bange, F., Vogt, P.M. (2019). Universal decolonization with octenidine: First experiences in a tertiary burn intensive care unit. *Burns Open* *3*,8-11. DOI: 10.1016/j.burnso.2018.10.003

Baier, C., Linke, L., Eder, M., Schwab, F., Chaberny, I.F., Vonberg, R.P., Ebadi, E. (2020). Incidence, risk factors and healthcare costs of central line-associated nosocomial bloodstream infections in hematologic and oncologic patients *PLoS One* *15*,e0227772. DOI: 10.1371/journal.pone.0227772

Bonifacius, A., Goldmann, O., Floess, S., Holtfreter, S., Robert, P.A., Nordengrün, M., Kruse, F., Lochner, M., Falk, C.S., Schmitz, I., Bröker, B.M., Medina, E., Huehn, J. (2020). *Staphylococcus aureus* Alpha-Toxin Limits Type 1 While Fostering Type 3 Immune Responses *Front Immunol* *11*,1579. DOI: 10.3389/fimmu.2020.01579

Carriche, G.M., Almeida, L., Stüve, P., Velasquez, L., Dhillon-LaBrooy, A., Roy, U., Lindenberg, M., Strowig, T., Plaza-Sirvent, C., Schmitz, I., Lochner, M., Simon, A.K., Sparwasser, T. (2021). Regulating T-cell differentiation through the polyamine spermidine. *J Allergy Clin Immunol* *147*,335-348.e11. DOI: 10.1016/j.jaci.2020.04.037

Chhatwal, P., Ebadi, E., Thol, F., Koenecke, C., Beutel, G., Ziesing, S., Schluter, D., Bange, F.C., Baier, C. (2020). Prospective infection surveillance and systematic screening for vancomycin-resistant enterococci in hematologic and oncologic patients - findings of a German tertiary care center. *J Glob Antimicrob Resist* *22*,102-105. DOI: 10.1016/j.jgar.2020.02.012

Derer, S., Brethack, A.K., Pietsch, C., Jendrek, S.T., Nitzsche, T., Bokemeyer, A., Hov, J.R., Schäffler, H., Bettenworth, D., Grassl, G.A., Sina, C. (2020). Inflammatory Bowel Disease-associated GP2 Autoantibodies Inhibit Mucosal Immune Response to Adherent-invasive Bacteria. *Inflamm Bowel Dis* *26*,1856-1868. DOI: 10.1093/ibd/izaa069

Estibariz, I., Ailloud, F., Woltemate, S., Bunk, B., Sprörer, C., Overmann, J., Aebischer, T., Meyer, T.F., Josenhans, C., Suerbaum, S. (2020). In Vivo Genome and Methylome Adaptation of *cag*-Negative *Helicobacter pylori* during Experimental Human Infection. *mBio* *11*,e01803-20 [pii]. DOI: 10.1128/mBio.01803

Galeev, A., Suwandi, A., Bakker, H., Oktiviyari, A., Routier, F.H., Krone, L., Hensel, M., Grassl, G.A. (2020). Proteoglycan-Dependent Endo-Lysosomal Fusion Affects Intracellular Survival of *Salmonella Typhimurium* in Epithelial Cells. *Front Immunol* *11*,731. DOI: 10.3389/fimmu.2020.00731

Gamrekashvili, J., Kapanadze, T., Sablotny, S., Ratiu, C., Dastagir, K., Lochner, M., Karbach, S., Wenzel, P., Sitnow, A., Fleig, S., Sparwasser, T., Kalinke, U., Holzmann, B., Haller, H., Limbourg, F.P. (2020). Notch and TLR signaling coordinate monocyte cell fate and inflammation. *Elife* *9*,e57007. DOI: 10.7554/eLife.57007

Ganzenmueller, T., Kaiser, R., Baier, C., Wehrhane, M., Hilfrich, B., Witthuhn, J., Flucht, S., Heim, A. (2020). Comparison of the performance of the Panther Fusion respiratory virus panel to R-Gene and laboratory developed tests for diagnostic and hygiene screening specimens from the upper and lower respiratory tract. *J Med Microbiol* *69*,427-435. DOI: 10.1099/jmm.0.001133

Horstmann, J.A., Lunelli, M., Cazzola, H., Heidemann, J., Kuhne, C., Steffen, P., Szefs, S., Rossi, C., Lokareddy, R.K., Wang, C., Lemaire, L., Hughes, K.T., Uetrecht, C., Schlüter, H., Grassl, G.A., Stradal, T.E.B., Rossez, Y., Kolbe, M., Erhardt, M. (2020). Methylation of *Salmonella* Typhimurium flagella promotes bacterial adhesion and host cell invasion. *Nat Commun* *11*,2013. DOI: 10.1038/s41467-020-15738-3

Joean, O., Thiele, T., Schütz, K., Schwerk, N., Sedlacek, L., Kalsdorf, B., Baumann, U., Stoll, M. (2020). Multidrug-resistant *Mycobacterium tuberculosis*: a report of cosmopolitan microbial migration and an analysis of best management practices *BMC Infect Dis* *20*,678. DOI: 10.1186/s12879-020-05381-0

Kini, A., Singh, A.K., Riederer, B., Yang, I., Tan, Q., di Stefano, G., Tan, Q., Xiao, F., Xia, W., Suerbaum, S., Seidler, U. (2020). *Slc26a3* deletion alters pH-microclimate, mucin biosynthesis, microbiome composition and increases the TNF α expression in murine colon *Acta Physiol (Oxf)* *230*,e13498. DOI: 10.1111/apha.13498

Mamareli, P., Kruse, F., Lu, C.W., Guderian, M., Floess, S., Rox, K., Allan, D.S.J., Carlyle, J.R., Brönstrup, M., Müller, R., Berod, L., Sparwasser, T., Lochner, M. (2021). Targeting cellular fatty acid synthesis limits T helper and innate lymphoid cell function during intestinal inflammation and infection. *Mucosal Immunol* *14*,164-176. DOI: 10.1038/s41385-020-0285-7

Mulas, F., Wang, X., Song, S., Nishanth, G., Yi, W., Brunn, A., Larsen, P.K., Isermann, B., Kalinke, U., Barragan, A., Naumann, M., Deckert, M., Schlüter, D. (2021). The deubiquitinase OTUB1 augments NF- κ B-dependent immune responses in dendritic cells in infection and inflammation by stabilizing UBC13 *Cell Mol Immunol* *18*,1512-1527. DOI: 10.1038/s41423-020-0362-6

Osbelt, L., Thiemann, S., Smit, N., Lesker, T.R., Schröter, M., Galvez, E.J.C., Schmidt-Hohagen, K., Pils, M.C., Mühlen, S., Dersch, P., Hiller, K., Schlüter, D., Neumann-Schaal, M., Strowig, T. (2020). Variations in microbiota composition of laboratory mice influence *Citrobacter rodentium* infection via variable short-chain fatty acid production. *PLoS Pathog* *16*,e1008448. DOI: 10.1371/journal.ppat.1008448

Rennekampff, H.O., Mirastschijski, U., Aumann, E., Bargfrede, H., Gille, J., Haas, R., Hartmann, B., Hirche, C., Hirsch, U., Horter, J., Kapalschinski, N., Kheiri, T., Kopp, R., Krauss, S., Kückelhaus, M., Lehnhardt, M., Pauli, H., Rubenbauer, J., Schiefer, J.L., Sinnig, M., Sorg, H., Stolle, A., Suchodolski, K., Wollborn, S., Ziegenthaler, H., Ziesing, S., Menke, H. (2020). Optimierung der chirurgischen Behandlung Brandverletzter: Auszüge aus der fachübergreifenden S2k-Leitlinie "Behandlung thermischer Verletzungen des Erwachsenen" *Handchir Mikrochir Plast Chir* *52*,497-504. DOI: 10.1055/a-1230-3866

Rubalskii, E., Ruemke, S., Salmoukas, C., Boyle, E.C., Warnecke, G., Tudorache, I., Shrestha, M., Schmitto, J.D., Martens, A., Rojas, S.V., Ziesing, S., Bochkareva, S., Kuehn, C., Haverich, A. (2020). Bacteriophage Therapy for Critical Infections Related to Cardiothoracic Surgery *Antibiotics (Basel)* *9*,232.

Smoczek, M., Vital, M., Wedekind, D., Basic, M., Zschemisch, N.H., Pieper, D.H., Siebert, A., Bleich, A., Buettner, M. (2020). A combination of genetics and microbiota influences the severity of the obesity phenotype in diet-induced obesity. *Sci Rep* *10*,6118. DOI: 10.1038/s41598-020-63340-w

Solbach, P., Chhatwal, P., Woltemate, S., Tacconelli, E., Buhl, M., Autenrieth, I.B., Vehreschild, M.J.G.T., Jazmati, N., Gerhard, M., Stein-Thoeringer, C.K., Rupp, J., Ulm, K., Ott, A., Lasch, F., Koch, A., Manns, M.P., Suerbaum, S., Bachmann, O. (2021). Microbiota-associated risk factors for *C. difficile* acquisition in hospitalized patients: A prospective, multicentric study. *Clin Infect Dis* *73*,e2625-e2634. DOI: 10.1093/cid/ciaa871

Übersichtsarbeiten

Alvarado, A., Behrens, W., Josenhans, C. (2020). Protein Activity Sensing in Bacteria in Regulating Metabolism and Motility. *Front Microbiol* *10*,3055. DOI: 10.3389/fmicb.2019.03055

Ruan, J., Schlüter, D., Wang, X. (2020). Deubiquitinating enzymes (DUBs): Double-edged swords in CNS autoimmunity. *J Neuroinflammation* *17*,102. DOI: 10.1186/s12974-020-01783-8

Buchbeiträge, Monografien

Bange, F.C. (2020). Nocardien und andere aerobe Aktinomyzeten. In: *Medizinische Mikrobiologie und Infektiologie*, Suerbaum S., eds. (Berlin: Springer) pp. 467-470

Bange, F.C., Fille, M. (2020). Antimykobakterielle Therapeutika. In: *Medizinische Mikrobiologie und Infektiologie*, Suerbaum S., eds. (Berlin: Springer) pp. 995-998

- Bange, F.C., Hahn, H., Kaufmann, S.H.E., Lange, C., Ulrichs, T. (2020). Mykobakterien. In: Medizinische Mikrobiologie und Infektiologie, Suerbaum S., eds. (Berlin: Springer) pp. 447-466
- Fille, M., Ziesing, S. (2020). Antibakterielle Wirkung. In: Medizinische Mikrobiologie und Infektiologie, Suerbaum S., eds. (Berlin: Springer) pp. 935-938
- Fille, M., Ziesing, S. (2020). Auswahl antimikrobieller Substanzen (Indikation). In: Medizinische Mikrobiologie und Infektiologie, Suerbaum S., eds. (Berlin: Springer) pp. 949-952
- Fille, M., Ziesing, S. (2020). Kombinationen mit β -Laktamase-Inhibitoren. In: Medizinische Mikrobiologie und Infektiologie, Suerbaum S., eds. (Berlin: Springer) pp. 963
- Fille, M., Ziesing, S. (2020). Lincosamide (Clindamycin). In: Medizinische Mikrobiologie und Infektiologie, Suerbaum S., eds. (Berlin: Springer) pp. 983-984
- Heim, A., Ziesing, S., Schubert, S., Vonberg, R.P. (2020). Klinische Diagnostik und Probennahme. In: Medizinische Mikrobiologie und Infektiologie, Suerbaum S., eds. (Berlin: Springer) pp. 165-174
- Höck, M., Ziesing, S. (2020). Tetracycline (Doxycyclin) und Glycylcycline. In: Medizinische Mikrobiologie und Infektiologie, Suerbaum S., eds. (Berlin: Springer) pp. 979-982
- Klos, A. (2020). Chlamydien. In: Medizinische Mikrobiologie und Infektiologie, Suerbaum S., eds. (Berlin: Springer) pp. 537-552
- Vonberg, R. (2020). Hot Topic: Infektionsdiagnostik. In: Infektio Update 2020 – Handbuch, Fätkenheuer G., eds. (Wiesbaden: medpublico) pp. Kapitel 12
- Vonberg, R.P., Graf, K., Baier, C. (2020). Prävention der Infektionsausbreitung. In: Medizinische Mikrobiologie und Infektiologie, Suerbaum S., eds. (Berlin: Springer) pp. 209-218
- Ziesing, S., Fille, M. (2020). Pharmakokinetik. In: Medizinische Mikrobiologie und Infektiologie, Suerbaum S., eds. (Berlin: Springer) pp. 943-944
- Ziesing, S., Fille, M. (2020). Resistenz. In: Medizinische Mikrobiologie und Infektiologie, Suerbaum S., eds. (Berlin: Springer) pp. 939-942
- Ziesing, S., Fille, M., Dierich, M.P. (2020). Nebenwirkungen. In: Medizinische Mikrobiologie und Infektiologie, Suerbaum S., eds. (Berlin: Springer) pp. 947-948
- Ziesing, S., Schubert, S., Heim, A., Vonberg, R.P. (2020). Methoden der mikrobiologischen Diagnostik. In: Medizinische Mikrobiologie und Infektiologie, Suerbaum S., eds. (Berlin: Springer) pp. 175-198

Abstracts

- Baier, C., Thol, F., Koenecke, C., Bange, F.C., Ebadi, E. (2020). Control and molecular epidemiology of a Carbapenem non-susceptible *Klebsiella pneumoniae* in hematologic patients. DGHM Jahrestagung 2020, 08.-11.03.2020, Leipzig.
- Bange, F.C. (2020). Ein 4MRGN *Citrobacter*-Ausbruch. 24. Berliner Workshop an der Charité, 24.-25.01.2020, Berlin.
- Felgenhauer, F., Schilke, R., Baier, C. (2020). Erfassung und Verbesserung der Compliance zur Händehygiene im Zahnmedizinstudium (D31). In: 4. Gemeinschaftstagung der DGZ und der DGET mit der DGPZM und der DGR²Z, 28.11.2020, DZZ, eds. (Köln: Deutscher Ärzteverlag) pp. D7
- Schilke, R., Felgenhauer, F., Baier, C. (2020). Hygieneaspekte der Smartphone-Nutzung im Zahnmedizinstudium und in medizinischen Ausbildungsgängen. In: Jahrestagung der Gesellschaft für Medizinische Ausbildung (GMA), 09.-12.09.2020, Zürich, Schweiz, GMDS, eds. (Düsseldorf: German Medical Science GMS Publishing House) pp. DocV-049
- Vital, M., Rath, S., Pieper, D., Schlüter, D. (2020). Exploring pathogenic functions of host microbiota. DGHM Jahrestagung 2020, 08.-11.03.2020, Leipzig.

Vorträge

- Becker, A.L., Ehrhardt, K., Matern, M., Grassl, G.A. (2020). SPI-1 translocated effectors prolong the intracellular survival of *Salmonella* Typhimurium in macrophages. DGHM Jahrestagung 2020, 08.-11.03.2020, Leipzig.

Galeev, A., Suwandi, A., Oktiviyari, A., Bakker, H., Routier, F., Krone, L., Hensel, M., Grassl, G.A. (2020). Proteoglycan-dependent endolysosomal fusion affects intracellular survival of *Salmonella* Typhimurium. DGHM Jahrestagung 2020, 08.-11.03.2020, Leipzig.

Suwandi, A., Galeev, A., Sharma, S., Seeger, K., Braun, J., Ring, D., Stecher, B., Blaut, M., Loh, G., Grassl, G.A. (2020). *Akkermansia muciniphila* reduces bacterial colonization and intestinal inflammation by inhibiting the adhesion of *Salmonella* to epithelial cells. DGHM Jahrestagung 2020, 08.-11.03.2020, Leipzig.

Winstel, V., Schneewind, O., Missiakas, D. (2020). Caspase-3 dampens macrophage infiltration into *Staphylococcus aureus* abscess lesions. DGHM Jahrestagung 2020, 08.-11.03.2020, Leipzig.

Poster

Lanfermann, C., Kohn, M., Laudeley, R., Rheinheimer, C., Glage, S., Klos, A. (2020). *Chlamydia trachomatis* reinfection with different serovars provides serovar-independent protection and faster recovery in a mouse lung infection model. 18. Deutscher Chlamydien-workshop, 05.-07.02.2020, Lübeck.

Lanfermann, C., Kohn, M., Laudeley, R., Rheinheimer, C., Glage, S., Klos, A. (2020). *Chlamydia trachomatis* reinfection with different serovars provides serovar-independent protection and faster recovery in a mouse lung model. DGHM Jahrestagung 2020, 08.-11.03.2020, Leipzig.

sonstiges

Baier, C. (2020). Multiresistente Keime in der Beatmungsmedizin. KRH Webinar Beatmungs- und Intensivmedizin 2020, 9. Symposium Beatmungs- u. Intensivmedizin, 29.06.2020, Hannover.

Haabrandt, B., Wulff, A., Baier, C., Schlüter, D., Biermann, P., von Landesberger, T., HiGHmed Infection Control Study Group, Scheithauer, S. (2020). Mit KIS-Daten gegen COVID-19. E-HEALTH-COM 2022-25.

Schultze-Florey, C., Mücke, U., Riegerink, V., Baier, C. (2020). Praktisches Jahr: Studierende nachhaltig fördern. Dtsch Arztebl 117A-1996.

Promotionen

Bitzer, M. (2019). Nosokomiale Ausbrüche durch Carbapenemase-produzierende *Klebsiella pneumoniae* ein systematisches Review Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Galeev, A. (2020). Host glycoconjugates in *Salmonella* infection: a bittersweet symphony. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Gleser, M. (2018). Reduktion von Hautkontaminationen durch modifizierte Schutzhandschuhe. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Kohn, M. (2020). The immune regulatory role of complement in experimental *Chlamydia psittaci* mouse lung infection Dissertation, Medizinische Hochschule Hannover, 2020

Sharma, S. (2020). Role of toll-like receptor 11 (TLR11) in *Salmonella* infection. Dissertation, Medizinische Hochschule Hannover, 2020

Masterarbeiten

Schwermann, N. (2020). Impact of oxygen on infections of intestinal epithelial cells with *S. Typhimurium*. Masterarbeit, Medizinische Hochschule Hannover, 2020

Institut für Molekularbiologie – 5250

Originalpublikationen

Abdelilah-Seyfried, S., Tournier-Lasserre, E., Derry, W.B. (2020). Blocking Signalopathic Events to Treat Cerebral Cavernous Malformations Trends Mol Med 26,874-887. DOI: 10.1016/j.molmed.2020.03.003

Ackermann, M., Haake, K., Kempf, H., Kaschutnig, P., Weiss, A.C., Nguyen, A.H.H., Abeln, M., Merkert, S., Kühnel, M.P., Hartmann, D., Jonigk, D., Thum, T., Kispert, A., Milsom, M.D., Lachmann, N. (2021). A 3D iPSC-differentiation model identifies interleukin-3 as a regulator of early human hematopoietic specification Haematologica 106,1354-1367. DOI: 10.3324/haematol.2019.228064

Airik, M., Schöler, M., McCourt, B., Weiss, A.C., Herdman, N., Lütke, T.H., Widmeier, E., Stolz, D.B., Nejak-Bowen, K.N., Yimlamai, D., Wu, Y.L., Kispert, A., Airik, R., Hildebrandt, F. (2020). Loss of Anks6 leads to YAP deficiency and liver abnormalities. *Hum Mol Genet* 29,3064-3080. DOI: 10.1093/hmg/ddaa197

Beckers, A., Adis, C., Schuster-Gossler, K., Tveriakhina, L., Ott, T., Fuhl, F., Hegemann, J., Boldt, K., Serth, K., Rachev, E., Alten, L., Kremmer, E., Ueffing, M., Blum, M., Gossler, A. (2020). The FOXJ1 target Cfap206 is required for sperm motility, mucociliary clearance of the airways and brain development. *Development* 147,dev188052. DOI: 10.1242/dev.188052

Cardoso, C., Arnould, M., De Luca, C., Otten, C., Abdelilah-Seyfried, S., Heredia, A., Leutenegger, A.L., Schwaninger, M., Tournier-Lasserre, E., Boulday, G. (2020). Novel Chronic Mouse Model of Cerebral Cavernous Malformations *Stroke* 51,1272-1278. DOI: 10.1161/STROKEAHA.119.027207

Christians, A., Weiss, A.C., Martens, H., Klopff, M.G., Hennies, I., Haffner, D., Kispert, A., Weber, R.G. (2020). Inflammation-like changes in the urothelium of Lifr-deficient mice and LIFR-haploinsufficient humans with urinary tract anomalies *Hum Mol Genet* 29,1192-1204. DOI: 10.1093/hmg/ddaa048

Donat, S., Abdelilah-Seyfried, S. (2020). Generation of Transgenic Lines of Zebrafish Expressing Fluorescently Tagged CCM Proteins to Study Their Function and Subcellular Localization Within the Vasculature *Methods Mol Biol* 2152,207-224. DOI: 10.1007/978-1-0716-0640-7_16

Flinn, M.A., Otten, C., Brandt, Z.J., Bostrom, J.R., Kenarsary, A., Wan, T.C., Auchampach, J.A., Abdelilah-Seyfried, S., O'Meara, C.C., Link, B.A. (2020). Llg1 regulates zebrafish cardiac development by mediating Yap stability in cardiomyocytes *Development* 147,DOI: 10.1242/dev.193581

Fontana, F., Haack, T., Reichenbach, M., Knaus, P., Puceat, M., Abdelilah-Seyfried, S. (2020). Antagonistic Activities of Vegfr3/Flt4 and Notch1b Fine-tune Mechanosensitive Signaling during Zebrafish Cardiac Valvulogenesis *Cell Rep* 32,107883. DOI: 10.1016/j.celrep.2020.107883

Martens, H., Hennies, I., Getwan, M., Christians, A., Weiss, A.C., Brand, F., Gjerstad, A.C., Christians, A., Gucev, Z., Geffers, R., Seeman, T., Kispert, A., Tasic, V., Bjerre, A., Lienkamp, S.S., Haffner, D., Weber, R.G. (2020). Rare heterozygous GDF6 variants in patients with renal anomalies *Eur J Hum Genet* 28,1681-1693. DOI: 10.1038/s41431-020-0678-9

Sanchez-Lopez, C., Labadie, N., Lombardo, V.A., Biglione, F.A., Manta, B., Jacob, R.S., Gladyshev, V.N., Abdelilah-Seyfried, S., Selenko, P., Binolfi, A. (2020). An NMR-Based Biosensor to Measure Stereospecific Methionine Sulfoxide Reductase Activities in Vitro and in Vivo* *Chemistry* 26,14838-14843. DOI: 10.1002/chem.202002645

Weiss, A.C., Rivera-Reyes, R., Englert, C., Kispert, A. (2020). Expansion of the renal capsular stroma, ureteric bud branching defects and cryptorchidism in mice with Wilms tumor 1 gene deletion in the stromal compartment of the developing kidney. *J Pathol* 252,290-303. DOI: 10.1002/path.5518

Yang, Z., Wu, S., Fontana, F., Li, Y., Xiao, W., Gao, Z., Krudewig, A., Affolter, M., Belting, H.G., Abdelilah-Seyfried, S., Zhang, J. (2021). The tight junction protein Claudin-5 limits endothelial cell motility *J Cell Sci* 134,DOI: 10.1242/jcs.248237

Editorials

Abdelilah-Seyfried, S., Rödel, C.J. (2020). Blood Flow Matters in a Zebrafish Model of Cerebral Cavernous Malformations *Circ Res* 126,e1-e2. DOI: 10.1161/CIRCRESAHA.119.316286

Promotionen

Meuser, M. (2020). Analyse der molekularen Kontrolle der Entwicklung des Urothels. Dissertation, Gottfried Wilhelm Leibniz Universität Hannover, 2020

Thöming, J.G. (2019). *Pseudomonas aeruginosa* Biofilm Profiling Dissertation, Medizinische Hochschule Hannover, 2020

Institut für Transfusionsmedizin und Transplantat Engineering – 8350

Originalpublikationen

Ahlenstiel-Grunow, T., Liu, X., Schild, R., Oh, J., Taylan, C., Weber, L.T., Staude, H., Verboom, M., Schröder, C., Sabau, R., Grosshennig,

- A., Pape, L. (2021). Steering Transplant Immunosuppression by Measuring Virus-Specific T Cell Levels: The Randomized, Controlled IVIST Trial *J Am Soc Nephrol* *32*,502-516. DOI: 10.1681/ASN.2020050645
- Bosnjak, B., Stein, S.C., Willenzon, S., Cordes, A.K., Puppe, W., Bernhardt, G., Ravens, I., Ritter, C., Schultze-Florey, C.R., Gödecke, N., Martens, J., Kleine-Weber, H., Hoffmann, M., Cossmann, A., Yilmaz, M., Pink, I., Hoeper, M.M., Behrens, G.M.N., Pöhlmann, S., Blasczyk, R., Schulz, T.F., Forster, R. (2021). Low serum neutralizing anti-SARS-CoV-2 S antibody levels in mildly affected COVID-19 convalescent patients revealed by two different detection methods *Cell Mol Immunol* *18*,936-944. DOI: 10.1038/s41423-020-00573-9
- Brogna, R., Oldenhof, H., Sieme, H., Figueiredo, C., Kerrinnes, T., Wolkers, W.F. (2020). Increasing storage stability of freeze-dried plasma using trehalose *PLoS One* *15*,e0234502. DOI: 10.1371/journal.pone.0234502
- Carvalho Oliveira, M., Valdivia, E., Verboom, M., Yuzefovych, Y., Sake, H.J., Pogozhykh, O., Niemann, H., Schwinzer, R., Petersen, B., Seisler, J., Blasczyk, R., Figueiredo, C. (2020). Generating low immunogenic pig pancreatic islet cell clusters for xenotransplantation *J Cell Mol Med* *24*,5070-5081. DOI: 10.1111/jcmm.15136
- Chaudhry, M.Z., Casalegno-Garduno, R., Sitnik, K.M., Kasmapour, B., Pulm, A.K., Brizic, I., Eiz-Vesper, B., Moosmann, A., Jonjic, S., Mocarski, E.S., Cicin-Sain, L. (2020). Cytomegalovirus inhibition of extrinsic apoptosis determines fitness and resistance to cytotoxic CD8 T cells. *Proc Natl Acad Sci U S A* *117*,12961-12968. DOI: 10.1073/pnas.1914667117
- Dragon, A.C., Zimmermann, K., Nerreter, T., Sandfort, D., Lahrberg, J., Klöss, S., Kloth, C., Mangare, C., Bonifacius, A., Tischer-Zimmermann, S., Blasczyk, R., Maecker-Kolhoff, B., Uchanska-Ziegler, B., Abken, H., Schambach, A., Hudecek, M., Eiz-Vesper, B. (2020). CAR-T cells and TRUCKs that recognize an EBNA-3C-derived epitope presented on HLA-B*35 control Epstein-Barr virus-associated lymphoproliferation *J Immunother Cancer* *8*,e000736. DOI: 10.1136/jitc-2020-000736
- Greite, R., Derlin, K., Hensen, B., Thorenz, A., Rong, S., Chen, R., Hellms, S., Jang, M.S., Bräsen, J.H., Meier, M., Willenberg, I., Immenschuh, S., Haller, H., Luft, F.C., Panigrahy, D., Hwang, S.H., Hammock, B.D., Schebb, N.H., Gueler, F. (2020). Early antihypertensive treatment and ischemia-induced acute kidney injury. *Am J Physiol Renal Physiol* *319*,F563-F570. DOI: 10.1152/ajprenal.00078.2020
- Grueger, D., Zeretzke, A., Habicht, C.P., Skaik, Y., Wagner, F.F., Scharberg, E.A., Costelloe, A., Martens, J., Verboom, M., Bugert, P., Schneeweiss, C. (2020). Two novel antithetical KN blood group antigens may contribute to more than a quarter of all KN antisera in Europe *Transfusion* *60*,2408-2418. DOI: 10.1111/trf.16039
- Hartung, N.M., Ostermann, A.I., Immenschuh, S., Schebb, N.H. (2020). Combined Targeted Proteomics and Oxylipin Metabolomics for Monitoring of the COX-2 Pathway *Proteomics* *e1900058*. DOI: 10.1002/pmic.201900058
- Hein, R., Sake, H.J., Pokoyski, C., Hundrieser, J., Brinkmann, A., Baars, W., Nowak-Imialek, M., Lucas-Hahn, A., Figueiredo, C., Schuberth, H.J., Niemann, H., Petersen, B., Schwinzer, R. (2020). Triple (GGTA1, CMAH, B2M) modified pigs expressing an SLA class I(low) phenotype-Effects on immune status and susceptibility to human immune responses *Am J Transplant* *20*,988-998. DOI: 10.1111/ajt.15710
- Heinemann, N.C., Tischer-Zimmermann, S., Wittke, T.C., Eigendorf, J., Kerling, A., Framke, T., Melk, A., Heuft, H.G., Blasczyk, R., Maecker-Kolhoff, B., Eiz-Vesper, B. (2020). High-intensity interval training in allogeneic adoptive T-cell immunotherapy - a big HIT? *J Transl Med* *18*,148. DOI: 10.1186/s12967-020-02301-3
- Hò, G.T., Celik, A.A., Huyton, T., Hiemisch, W., Blasczyk, R., Simper, G.S., Bade-Doeding, C. (2020). NKG2A/CD94 Is a New Immune Receptor for HLA-G and Distinguishes Amino Acid Differences in the HLA-G Heavy Chain. *Int J Mol Sci* *21*,E4362 [pii]. DOI: 10.3390/ijms21124362
- Ho, G.T., Hiemisch, W., Pich, A., Behrens, G.M.N., Blasczyk, R., Bade-Doeding, C. (2020). The Loss of HLA-F/KIR3DS1 Ligation Is Mediated by Hemoglobin Peptides *Int J Mol Sci* *21*,DOI: 10.3390/ijms21218012
- Hoening, M., Roesler, J., Seidel, M.G., Albert, M.H., Hauck, F., Maecker-Kolhoff, B., Eiz-Vesper, B., Kleinschmidt, K., Debatin, K.M., Jacobsen, E.M., Furlan, I., Suttrop, M., Schuetz, C., Schulz, A.S. (2020). Matched Family Donor Lymphocyte Infusions as First Cellular Therapy for Patients with Severe Primary T Cell Deficiencies *Biol Blood Marrow Transplant* *30*,630. DOI: 10.1016/j.bbmt.2020.09.037
- Höfer, A., Jonjic, D., Hartleben, B., Verboom, M., Hallensleben, M., Manns, M.P., Jaeckel, E., Taubert, R. (2020). Non-invasive screening for subclinical liver graft injury in adults via donor-specific anti-HLA antibodies. *Sci Rep* *10*,14242. DOI: 10.1038/s41598-020-70938-7
- Ius, F., Müller, C., Sommer, W., Verboom, M., Hallensleben, M., Salman, J., Siemeni, T., Kühn, C., Avsar, M., Bobylev, D., Poyanmehr, R., Erdfelder, C., Böthig, D., Carlens, J., Bayir, L., Hansen, G., Blasczyk, R., Falk, C., Tecklenburg, A., Haverich, A., Tudorache, I., Schwerk, N., Warnecke, G. (2020). Six-year experience with treatment of early donor-specific anti-HLA antibodies in pediatric lung transplantation using a human immunoglobulin-based protocol *Pediatr Pulmonol* *55*,754-764. DOI: 10.1002/ppul.24639

Ius, F., Salman, J., Knoefel, A.K., Sommer, W., Nakagiri, T., Verboom, M., Siemeni, T., Poyanmehr, R., Bobylev, D., Kuehn, C., Avsar, M., Erdfelder, C., Hallensleben, M., Boethig, D., Hecker, H., Schwerk, N., Mueller, C., Welte, T., Falk, C., Preissler, G., Haverich, A., Tudorache, I., Warnecke, G. (2020). Increased frequency of CD4(+) CD25(high) CD127(low) T cells early after lung transplant is associated with improved graft survival - a retrospective study *Transpl Int* *33*,503-516. DOI: 10.1111/tri.13568

Kirimunda, S., Verboom, M., Otim, I., Ssenono, M., Legason, I.D., Nabalende, H., Ogwang, M.D., Kerchan, P., Kinyera, T., Mwebaza, I., Joloba, M., Ayers, L.W., Reynolds, S.J., Bhatia, K., Onabajo, O.O., Hallensleben, M., Biggar, R.J., Prokunina-Olsson, L., Goedert, J.J., Blasczyk, R., Mbulaiteye, S.M. (2020). Variation in the Human Leukocyte Antigen system and risk for endemic Burkitt lymphoma in northern Uganda. *Br J Haematol* *189*,489-499. DOI: 10.1111/bjh.16398

Kreimann, K., Jang, M.S., Rong, S., Greite, R., von Vietinghoff, S., Schmitt, R., Bräsen, J.H., Schiffer, L., Gerstenberg, J., Vijayan, V., Ditrach-Breiholz, O., Wang, L., Karsten, C.M., Gwinner, W., Haller, H., Immenschuh, S., Gueler, F. (2020). Ischemia Reperfusion Injury Triggers CXCL13 Release and B-Cell Recruitment After Allogenic Kidney Transplantation *Front Immunol* *11*, DOI: 10.3389/fimmu.2020.01204

Odak, I., Barros-Martins, J., Bosnjak, B., Stahl, K., David, S., Wiesner, O., Busch, M., Hoepfer, M.M., Pink, I., Welte, T., Cornberg, M., Stoll, M., Goudeva, L., Blasczyk, R., Ganser, A., Prinz, I., Förster, R., Koenecke, C., Schultze-Florey, C.R. (2020). Reappearance of effector T cells is associated with recovery from COVID-19 *EBioMedicine* *57*,102885. DOI: 10.1016/j.ebiom.2020.102885

Pogozhykh, D., Eicke, D., Gryshkov, O., Wolkers, W.F., Schulze, K., Guzman, C.A., Blasczyk, R., Figueiredo, C. (2020). Towards Reduction or Substitution of Cytotoxic DMSO in Biobanking of Functional Bioengineered Megakaryocytes. *Int J Mol Sci* *21*,E7654 [pii]. DOI: 10.3390/ijms21207654

Pogozhykh, O., Hofmann, N., Gryshkov, O., von Kaisenberg, C., Mueller, M., Glasmacher, B., Pogozhykh, D., Börgel, M., Blasczyk, R., Figueiredo, C. (2020). Repeated Freezing Procedures Preserve Structural and Functional Properties of Amniotic Membrane for Application in Ophthalmology *Int J Mol Sci* *21*,E4029. DOI: 10.3390/ijms21114029

Schirmer, B., Rother, T., Bruesch, I., Bleich, A., Werlein, C., Jonigk, D., Seifert, R., Neumann, D. (2020). Genetic Deficiency of the Histamine H4-Receptor Reduces Experimental Colorectal Carcinogenesis in Mice. *Cancers (Basel)* *12*,E912 [pii]. DOI: 10.3390/cancers12040912

Schwich, E., Ho, G.T., LeMaout, J., Bade-Döding, C., Carosella, E.D., Horn, P.A., Rebmann, V. (2020). Soluble HLA-G and HLA-G Bearing Extracellular Vesicles Affect ILT-2 Positive and ILT-2 Negative CD8 T Cells Complementary *Front Immunol* *11*,2046. DOI: 10.3389/fimmu.2020.02046

Slabik, C., Kalbarczyk, M., Danisch, S., Zeidler, R., Klawonn, F., Volk, V., Krönke, N., Feuerhake, F., Ferreira de Figueiredo, C., Blasczyk, R., Olbrich, H., Theobald, S.J., Schneider, A., Ganser, A., von Kaisenberg, C., Lienenklaus, S., Bleich, A., Hammerschmidt, W., Stripecke, R. (2020). CAR-T Cells Targeting Epstein-Barr Virus gp350 Validated in a Humanized Mouse Model of EBV Infection and Lymphoproliferative Disease *Mol Ther Oncolytics* *18*,504-524. DOI: 10.1016/j.omto.2020.08.005

Theobald, S.J., Kreer, C., Khailaie, S., Bonifacius, A., Eiz-Vesper, B., Figueiredo, C., Mach, M., Backovic, M., Ballmaier, M., Koenig, J., Olbrich, H., Schneider, A., Volk, V., Danisch, S., Gieselmann, L., Ercanoglu, M.S., Messerle, M., Kaisenberg, C.V., Witte, T., Klawonn, F., Meyer-Hermann, M., Klein, F., Stripecke, R. (2020). Repertoire characterization and validation of gB-specific human IgGs directly cloned from humanized mice vaccinated with dendritic cells and protected against HCMV *PLoS Pathog* *16*,e1008560. DOI: 10.1371/journal.ppat.1008560

Volk, V., Theobald, S.J., Danisch, S., Khailaie, S., Kalbarczyk, M., Schneider, A., Bialek-Waldmann, J., Krönke, N., Deng, Y., Eiz-Vesper, B., Dragon, A.C., von Kaisenberg, C., Lienenklaus, S., Bleich, A., Keck, J., Meyer-Hermann, M., Klawonn, F., Hammerschmidt, W., Delecluse, H.J., Münz, C., Feuerhake, F., Stripecke, R. (2021). PD-1 Blockade Aggravates Epstein-Barr Virus(+) Post-Transplant Lymphoproliferative Disorder in Humanized Mice Resulting in Central Nervous System Involvement and CD4(+) T Cell Dysregulations *Front Oncol* *10*,614876. DOI: 10.3389/fonc.2020.614876

Winkel, A., Jaimés, Y., Melzer, C., Dillschneider, P., Hartwig, H., Stiesch, M., von der Ohe, J., Strauss, S., Vogt, P.M., Hamm, A., Burmeister, L., Roger, Y., Elger, K., Floerkemeier, T., Weissinger, E.M., Pogozhykh, O., Müller, T., Selich, A., Rothe, M., Petri, S., Köhl, U., Hass, R., Hoffmann, A. (2020). Cell culture media notably influence properties of human mesenchymal stroma/stem-like cells from different tissues. *Cytherapy* *22*,653-668. DOI: 10.1016/j.jcyt.2020.07.005

Yuzefowych, Y., Valdivia, E., Rong, S., Hack, F., Rother, T., Schmitz, J., Bräsen, J.H., Wedekind, D., Moers, C., Wenzel, N., Gueler, F., Blasczyk, R., Figueiredo, C. (2020). Genetic Engineering of the Kidney to Permanently Silence MHC Transcripts During ex vivo Organ Perfusion *Front Immunol* *11*,265. DOI: 10.3389/fimmu.2020.00265

Zimmermann, K., Kuehle, J., Dragon, A.C., Galla, M., Kloth, C., Rudek, L.S., Sandalcioğlu, I.E., Neyazi, B., Moritz, T., Meyer, J., Rossig, C., Altvater, B., Eiz-Vesper, B., Morgan, M.A., Abken, H., Schambach, A. (2020). Design and Characterization of an "All-in-One" Lentiviral

Vector System Combining Constitutive Anti-GD2 CAR Expression and Inducible Cytokines. *Cancers (Basel)* 12,E375 [pii]. DOI: 10.3390/cancers12020375

Übersichtsarbeiten

Ackermann, M., Dragon, A.C., Lachmann, N. (2020).The Immune-Modulatory Properties of iPSC-Derived Antigen-Presenting Cells *Transfus Med Hemother* 47,444-453. DOI: 10.1159/000512721

Janciauskiene, S., Vijayan, V., Immenschuh, S. (2020).TLR4 Signaling by Heme and the Role of Heme-Binding Blood Proteins *Front Immunol* 11,1964. DOI: 10.3389/fimmu.2020.01964

Kummer, L., Zaradzki, M., Vijayan, V., Arif, R., Weigand, M.A., Immenschuh, S., Wagner, A.H., Larmann, J. (2020).Vascular Signaling in Allogenic Solid Organ Transplantation - The Role of Endothelial Cells *Front Physiol* 11,443. DOI: 10.3389/fphys.2020.00443

Leal-Marín, S., Kern, T., Hofmann, N., Pogozykh, O., Framme, C., Borgel, M., Figueiredo, C., Glasmacher, B., Gryshkov, O. (2020).Human Amniotic Membrane: A review on tissue engineering, application, and storage. *J Biomed Mater Res B Appl Biomater* DOI: 10.1002/jbm.b.34782

Pogozykh, D., Blasczyk, R., Figueiredo, C. (2020).Biotechnologisch hergestellte Megakaryozyten und Thrombozyten. *Transfusionsmedizin* 10,159-174. DOI: 10.1055/a-1090-0475

Pradhan, P., Vijayan, V., Gueler, F., Immenschuh, S. (2020).Interplay of Heme with Macrophages in Homeostasis and Inflammation. *Int J Mol Sci* 21,DOI: 10.3390/ijms21030740

Editorials

Eiz-Vesper, B., Schmetzer, H.M. (2020).Antigen-Presenting Cells: Potential of Proven und New Players in Immune Therapies. *Transfus Med Hemother* 47,429-431. DOI: 10.1159/000512729

Buchbeiträge, Monografien

Kaufmann, S.H.E., Blasczyk, R. (2020). Antigen-Antikörper-Reaktion: Grundlagen serologischer Methoden. In: *Medizinische Mikrobiologie und Infektiologie*, Suerbaum S., eds. (Berlin: Springer) pp. 91-96

Pogozykh, D., Blasczyk, R., Figueiredo, C. (2021). Isolation, Cryopreservation, and Characterization of iPSC-Derived Megakaryocytes. In: *Cryopreservation and Freeze-Drying Protocols*, Wolkers W., eds. (New York,NY: Humana) pp. 539-554

Abstracts

Ahlenstiel-Grunow, T., Großhennig, A., Schild, R., Oh, J., Taylan, C., Weber, L., Staude, H., Verboom, M., Schröder, C., Sabau, R., Koch, A., Liu, X., Pape, L. (2020). A Multicenter, Randomized, Controlled Trial to Steer Immunosuppressive Therapy by Virus-Specific T Cells after Pediatric Kidney Transplantation (IVIST-Trial). *American Transplant Congress ATC 2020 (Virtual)*.

Promotionen

Aljabri, A. (2020). HLA antibody-mediated pathways in human endothelial cells and transplant rejection. *Kumulative Dissertation, Medizinische Hochschule Hannover, 2020*

Bieling, M. (2018). Evaluation of novel naturally processed and presented EBV-derived T-cell epitopes as immunodominant targets for personalized adoptive immunotherapy of EBV-infections, -reactivations and PTLD *Kumulative Dissertation, Medizinische Hochschule Hannover, 2020*

Carvalho Oliveira, M.A. (2020). Silencing MHC expression in 3D-complex tissues and organs. *Kumulative Dissertation, Medizinische Hochschule Hannover, 2020*

Hò, G.T. (2020). Potential of HLA-F to modulate immune responses *Kumulative Dissertation, Medizinische Hochschule Hannover, 2020*

Jin, Z. (2019). Producing lentiviral vectors for ex vivo organ gene therapy. *Dissertation, Medizinische Hochschule Hannover, 2020*

Mangare, C. (2021). Identification of Suitable T-Cell Subsets for Personalized Antiviral T-Cell Immunotherapy. *Kumulative Dissertation, Medizinische Hochschule Hannover, 2020*

Pump, W.C. (2019). Immune evasion of cytomegalovirus alters the understanding of HLA class Ia peptide selection. *Kumulative Dissertation, Medizinische Hochschule Hannover, 2020*

Simper, G.S. (2020). Understanding the molecular differences of carbamazepine-mediated adverse drug reactions for HLA-A*31:01- and HLA-B*15:02-positive patients Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Wolf, C. (2018). Differenzierung von HLA-universellen induziert pluripotenten Stammzellen zu Thrombozyten Dissertation, Medizinische Hochschule Hannover, 2020

Institut für Versuchstierkunde – 8602

Originalpublikationen

Bahlmann, J., Madrahimov, N., Daniel, F., Theidel, D., DeTemple, D.E., Buettner, M., Bleich, A., Haverich, A., Heisterkamp, A., Kalies, S. (2020). Establishment of a guided, in vivo, multi-channel, abdominal, tissue imaging approach. *Sci Rep* 10,9224. DOI: 10.1038/s41598-020-65950-w

Begni, V., Sanson, A., Pfeiffer, N., Brandwein, C., Inta, D., Talbot, S.R., Riva, M.A., Gass, P., Mallien, A.S. (2020). Social isolation in rats: Effects on animal welfare and molecular markers for neuroplasticity *PLoS One* 15,e0240439. DOI: 10.1371/journal.pone.0240439

Brinkert, K., Hedtfeld, S., Burhop, A., Gastmeier, R., Gad, P., Wedekind, D., Kloth, C., Roths Schuh, J., Lachmann, N., Hetzel, M., Jirmo, A.C., Lopez-Rodriguez, E., Brandenberger, C., Hansen, G., Schambach, A., Ackermann, M., Tümmeler, B., Munder, A. (2021). Rescue from *Pseudomonas aeruginosa* airway infection via stem cell transplantation *Mol Ther* 29,1324-1334. DOI: 10.1016/j.jymthe.2020.12.003

Brooks, P., Zur Bruegge, T., Boyle, E.C., Kalies, S., Villarreal, S.N., Liese, A., Bleich, A., Buettner, M. (2020). CD14 and ALPK1 Affect Expression of Tight Junction Components and Proinflammatory Mediators upon Bacterial Stimulation in a Colonic 3D Organoid Model *Stem Cells Int* 4069354. DOI: 10.1155/2020/4069354

DeTemple, D.E., Cammann, S., Bahlmann, J., Buettner, M., Heisterkamp, A., Vondran, F.W.R., Kalies, S.K. (2020). Longitudinal imaging and femtosecond laser manipulation of the liver: How to generate and trace single-cell-resolved micro-damage in vivo. *PLoS One* 15,e0240405. DOI: 10.1371/journal.pone.0240405

Dorsch, M., Wittur, I., Garrels, W. (2020). Efficiency of timed pregnancies in C57BL/6 and BALB/c mice by mating one male with up to four females *Lab Anim* DOI: 10.1177/0023677219897687

Eberl, C., Ring, D., Münch, P.C., Beutler, M., Basic, M., Slack, E.C., Schwarzer, M., Srutkova, D., Lange, A., Frick, J.S., Bleich, A., Stecher, B. (2020). Reproducible Colonization of Germ-Free Mice With the Oligo-Mouse-Microbiota in Different Animal Facilities *Front Microbiol* 10,2999. DOI: 10.3389/fmicb.2019.02999

Ernst, L., Ziegłowski, L., Schulz, M., Moss, M., Meyer, M., Weiskirchen, R., Palme, R., Hamann, M., Talbot, S.R., Tolba, R.H. (2020). Severity assessment in mice subjected to carbon tetrachloride *Sci Rep* 10,15790. DOI: 10.1038/s41598-020-72801-1

Fischer, F., Romero, R., Hellhund, A., Linne, U., Bertrams, W., Pinkenburg, O., Eldin, H.S., Binder, K., Jacob, R., Walker, A., Stecher, B., Basic, M., Luu, M., Mahdavi, R., Heintz-Buschart, A., Visekruna, A., Steinhoff, U. (2020). Dietary cellulose induces anti-inflammatory immunity and transcriptional programs via maturation of the intestinal microbiota *Gut Microbes* 12,1-17. DOI: 10.1080/19490976.2020.1829962

Fritz, R.G., Zimmermann, E., Meier, M., Mestre-Frances, N., Radespiel, U., Schmidtke, D. (2020). Neurobiological substrates of animal personality and cognition in a nonhuman primate (*Microcebus murinus*) *Brain Behav* 10,e01752. DOI: 10.1002/brb3.1752

Fritz, R.G., Zimmermann, E., Picq, J.L., Lautier, C., Meier, M., Kästner, S., Schmidtke, D. (2020). Sex-specific patterns of age-related cerebral atrophy in a nonhuman primate *Microcebus murinus* *Neurobiol Aging* 91,148-159. DOI: 10.1016/j.neurobiolaging.2020.02.027

Gorinski, N., Wojciechowski, D., Guseva, D., Abdel Galil, D., Mueller, F.E., Wirth, A., Thiemann, S., Zeug, A., Schmidt, S., Zareba-Kozioł, M., Włodarczyk, J., Skryabin, B.V., Glage, S., Fischer, M., Al-Samir, S., Kerkenberg, N., Hohoff, C., Zhang, W., Endeward, V., Ponimaskin, E. (2020). DHHC7-mediated palmitoylation of the accessory protein barttin critically regulates the functions of ClC-K chloride channels *J Biol Chem* 295,5970-5983. DOI: 10.1074/jbc.RA119.011049

Greite, R., Derlin, K., Hensen, B., Thorenz, A., Rong, S., Chen, R., Hellms, S., Jang, M.S., Bräsen, J.H., Meier, M., Willenberg, I., Immenschuh, S., Haller, H., Luft, F.C., Panigrahy, D., Hwang, S.H., Hammock, B.D., Schebb, N.H., Gueler, F. (2020). Early antihypertensive treatment and ischemia-induced acute kidney injury. *Am J Physiol Renal Physiol* 319,F563-F570. DOI: 10.1152/ajprenal.00078.2020

- Helgers, S.O.A., Talbot, S.R., Riedesel, A.K., Wassermann, L., Wu, Z., Krauss, J.K., Häger, C., Bleich, A., Schwabe, K. (2020). Body weight algorithm predicts humane endpoint in an intracranial rat glioma model. *Sci Rep* *10*,9020. DOI: 10.1038/s41598-020-65783-7
- Hensel, N., Brickwedde, H., Tsaknakis, K., Grages, A., Braunschweig, L., Lüders, K.A., Lorenz, H.M., Lippross, S., Walter, L.M., Tavassol, F., Lienenklaus, S., Neunaber, C., Claus, P., Hell, A.K. (2020). Altered bone development with impaired cartilage formation precedes neuromuscular symptoms in spinal muscular atrophy *Hum Mol Genet* *29*,2662-2673. DOI: 10.1093/hmg/ddaa145
- Jäger, B., Klatt, D., Plappert, L., Golpon, H., Lienenklaus, S., Barbosa, P.D., Schambach, A., Prasse, A. (2020). CXCR4/MIF axis amplifies tumor growth and epithelial-mesenchymal interaction in non-small cell lung cancer *Cell Signal* *73*,109672. DOI: 10.1016/j.cellsig.2020.109672
- Jörns, A., Arndt, T., Yamada, S., Ishikawa, D., Yoshimoto, T., Terbish, T., Wedekind, D., van der Meide, P.H., Lenzen, S. (2020). Translation of curative therapy concepts with T cell and cytokine antibody combinations for type 1 diabetes reversal in the IDDM rat. *J Mol Med (Berl)* *98*,1125-1137. DOI: 10.1007/s00109-020-01941-8
- Jörns, A., Ishikawa, D., Teraoku, H., Yoshimoto, T., Wedekind, D., Lenzen, S. (2020). Remission of autoimmune diabetes by anti-TCR combination therapies with anti-IL-17A or/and anti-IL-6 in the IDDM rat model of type 1 diabetes. *BMC Med* *18*,33. DOI: 10.1186/s12916-020-1503-6
- Jörns, A., Wedekind, D., Jähne, J., Lenzen, S. (2020). Pancreas Pathology of Latent Autoimmune Diabetes in Adults (LADA) in Patients and in a LADA Rat Model Compared With Type 1 Diabetes. *Diabetes* *69*,624-633. DOI: 10.2337/db19-0865
- Kirchhoff, H., Karsli, U., Schoenherr, C., Battmer, K., Erschow, S., Talbot, S.R., Steinemann, D., Heuser, M., Heidenreich, O., Hilfiker-Kleiner, D., Ganser, A., Eder, M., Scherr, M. (2021). Venetoclax and dexamethasone synergize with inotuzumab-ozogamicin induced DNA damage signaling in B-lineage ALL. *Blood* *137*,2657-2661. DOI: 10.1182/blood.2020008544
- Kumstel, S., Wendt, E.H.U., Eichberg, J., Talbot, S.R., Häger, C., Zhang, X., Abdelrahman, A., Schönrogge, M., Palme, R., Bleich, A., Vollmar, B., Zechner, D. (2020). Grading animal distress and side effects of therapies *Ann N Y Acad Sci* *1473*,20-34. DOI: 10.1111/nyas.14338
- Li, H., Van Herck, S., Liu, Y., Hao, Y., Ding, X., Nuhn, L., Zhong, Z., Combes, F., Sanders, N.N., Lienenklaus, S., Koker, S.D., David, S.A., Wang, Y., De Geest, B.G., Zhang, Z. (2020). Imidazoquinoline-Conjugated Degradable Coacervate Conjugate for Local Cancer Immunotherapy *ACS Biomater Sci Eng* *6*,4993-5000. DOI: 10.1021/acsbiomaterials.0c00485
- Malaise, Y., Lencina, C., Placide, F., Bacquie, V., Cartier, C., Olier, M., Buettner, M., Wallbrecht, M., Menard, S., Guzylack-Piriou, L. (2020). Oral exposure to bisphenols induced food intolerance and colitis in vivo by modulating immune response in adult mice *Food Chem Toxicol* *146*,111773. DOI: 10.1016/j.fct.2020.111773
- Mattner, A., Zimmermann, L., Lienenklaus, S., Weiss, S., Wickleder, C. (2020). Tailoring long lasting luminescence of red-emitting CaWO₄:Eu³⁺, Sm³⁺ nanoparticles with enhanced crystallinity for improved bio-imaging. *Ceram Int* *46*,26295-26298. DOI: 10.1016/j.ceramint.2020.03.036
- Rahim, M.I., Winkel, A., Lienenklaus, S., Stumpp, N.S., Szafranski, S.P., Kommerein, N., Willbold, E., Reifenrath, J., Mueller, P.P., Eisenburger, M., Stiesch, M. (2020). Non-Invasive Luciferase Imaging of Type I Interferon Induction in a Transgenic Mouse Model of Biomaterial Associated Bacterial Infections: Microbial Specificity and Inter-Bacterial Species Interactions *Microorganisms* *8*,1624. DOI: 10.3390/microorganisms8101624
- Reinke, S., Linge, M., Diebner, H.H., Luksch, H., Glage, S., Gocht, A., Robertson, A.A.B., Cooper, M.A., Hofmann, S.R., Naumann, R., Sarov, M., Behrendt, R., Roers, A., Pessler, F., Roesler, J., Rösen-Wolff, A., Winkler, S. (2020). Non-canonical Caspase-1 Signaling Drives RIP2-Dependent and TNF-alpha-Mediated Inflammation *In Vivo Cell Rep* *30*,2501-2511.e5. DOI: 10.1016/j.celrep.2020.01.090
- Riba, A., Hassani, K., Walker, A., van Best, N., von Zeschwitz, D., Anslinger, T., Sillner, N., Rosenhain, S., Eibach, D., Maiga-Ascofare, O., Rolle-Kampczyk, U., Basic, M., Binz, A., Mocek, S., Sodeik, B., Bauerfeind, R., Mohs, A., Trautwein, C., Kiessling, F., May, J., Klingenspor, M., Gremse, F., Schmitt-Kopplin, P., Bleich, A., Torow, N., von Bergen, M., Hornef, M.W. (2020). Disturbed gut microbiota and bile homeostasis in Giardia-infected mice contributes to metabolic dysregulation and growth impairment *Sci Transl Med* *12*,DOI: 10.1126/scitranslmed.aay7019
- Schaupp, L., Muth, S., Rogell, L., Kofoed-Branzk, M., Melchior, F., Lienenklaus, S., Ganal-Vonarburg, S.C., Klein, M., Guendel, F., Hain, T., Schütze, K., Grundmann, U., Schmitt, V., Dorsch, M., Spanier, J., Larsen, P.K., Schwanz, T., Jackel, S., Reinhardt, C., Bopp, T., Danckwardt, S., Mahnke, K., Heinz, G.A., Mashreghi, M.F., Durek, P., Kalinke, U., Kretz, O., Huber, T.B., Weiss, S., Wilhelm, C., Macpherson, A.J., Schild, H., Diefenbach, A., Probst, H.C. (2020). Microbiota-Induced Type I Interferons Instruct a Poised Basal State of Dendritic Cells. *Cell* *181*,1080-1096.e19. DOI: 10.1016/j.cell.2020.04.022

- Schirmer, B., Rother, T., Bruesch, I., Bleich, A., Werlein, C., Jonigk, D., Seifert, R., Neumann, D. (2020). Genetic Deficiency of the Histamine H4-Receptor Reduces Experimental Colorectal Carcinogenesis in Mice. *Cancers (Basel)* *12*,E912 [pii]. DOI: 10.3390/cancers12040912
- Schulze, J., Staecker, H., Wedekind, D., Lenarz, T., Warnecke, A. (2020). Expression pattern of brain-derived neurotrophic factor and its associated receptors: Implications for exogenous neurotrophin application *Hear Res* DOI: 10.1016/j.heares.2020.108098
- Slabik, C., Kalbarczyk, M., Danisch, S., Zeidler, R., Klawonn, F., Volk, V., Krönke, N., Feuerhake, F., Ferreira de Figueiredo, C., Blasczyk, R., Olbrich, H., Theobald, S.J., Schneider, A., Ganser, A., von Kaisenberg, C., Lienenklaus, S., Bleich, A., Hammerschmidt, W., Stripecke, R. (2020). CAR-T Cells Targeting Epstein-Barr Virus gp350 Validated in a Humanized Mouse Model of EBV Infection and Lymphoproliferative Disease *Mol Ther Oncolytics* *18*,504-524. DOI: 10.1016/j.omto.2020.08.005
- Smoczek, M., Vital, M., Wedekind, D., Basic, M., Zschemisch, N.H., Pieper, D.H., Siebert, A., Bleich, A., Buettner, M. (2020). A combination of genetics and microbiota influences the severity of the obesity phenotype in diet-induced obesity. *Sci Rep* *10*,6118. DOI: 10.1038/s41598-020-63340-w
- Streich, K., Smoczek, M., Hegermann, J., Dittrich-Breiholz, O., Bornemann, M., Siebert, A., Bleich, A., Buettner, M. (2020). Dietary lipids accumulate in macrophages and stromal cells and change the microarchitecture of mesenteric lymph nodes *J Adv Res* *24*,291-300. DOI: 10.1016/j.jare.2020.04.020
- Tajik, N., Frech, M., Schulz, O., Schälter, F., Lucas, S., Azizov, V., Dürholz, K., Steffen, F., Omata, Y., Rings, A., Bertog, M., Rizzo, A., Iljazovic, A., Basic, M., Kleyer, A., Culemann, S., Krönke, G., Luo, Y., Uberla, K., Gaip, U.S., Frey, B., Strowig, T., Sarter, K., Bischoff, S.C., Wirtz, S., Canete, J.D., Ciccia, F., Schett, G., Zaiss, M.M. (2020). Targeting zonulin and intestinal epithelial barrier function to prevent onset of arthritis *Nat Commun* *11*,1995. DOI: 10.1038/s41467-020-15831-7
- Tan, Q., di Stefano, G., Tan, X., Renjie, X., Römermann, D., Talbot, S.R., Seidler, U.E. (2021). Inhibition of Na⁺/H⁺ exchanger isoform 3 improves gut fluidity and alkalinity in cystic fibrosis transmembrane conductance regulator-deficient and F508del mutant mice. *Br J Pharmacol* *178*,1018-1036. DOI: 10.1111/bph.15323
- Tang, G., Seume, N., Häger, C., Kumstel, S., Abshagen, K., Bleich, A., Vollmar, B., Talbot, S.R., Zhang, X., Zechner, D. (2020). Comparing distress of mouse models for liver damage *Sci Rep* *10*,19814. DOI: 10.1038/s41598-020-76391-w
- van Best, N., Rolle-Kampczyk, U., Schaap, F.G., Basic, M., Olde Damink, S.W.M., Bleich, A., Savelkoul, P.H.M., von Bergen, M., Penders, J., Hornef, M.W. (2020). Bile acids drive the newborn's gut microbiota maturation *Nat Commun* *11*,3692. DOI: 10.1038/s41467-020-17183-8
- van Dijk, R.M., Koska, I., Bleich, A., Tolba, R., Seiffert, I., Möller, C., Di Liberto, V., Talbot, S.R., Potschka, H. (2020). Design of composite measure schemes for comparative severity assessment in animal-based neuroscience research: A case study focussed on rat epilepsy models *PLoS One* *15*,e0230141. DOI: 10.1371/journal.pone.0230141
- Volk, V., Theobald, S.J., Danisch, S., Khailaie, S., Kalbarczyk, M., Schneider, A., Bialek-Waldmann, J., Krönke, N., Deng, Y., Eiz-Vesper, B., Dragon, A.C., von Kaisenberg, C., Lienenklaus, S., Bleich, A., Keck, J., Meyer-Hermann, M., Klawonn, F., Hammerschmidt, W., Delecluse, H.J., Münz, C., Feuerhake, F., Stripecke, R. (2021). PD-1 Blockade Aggravates Epstein-Barr Virus(+) Post-Transplant Lymphoproliferative Disorder in Humanized Mice Resulting in Central Nervous System Involvement and CD4(+) T Cell Dysregulations *Front Oncol* *10*,614876. DOI: 10.3389/fonc.2020.614876
- Wang, B., Van Herck, S., Chen, Y., Bai, X., Zhong, Z., Deswarte, K., Lambrecht, B.N., Sanders, N.N., Lienenklaus, S., Scheeren, H.W., David, S.A., Kiessling, F., Lammers, T., De Geest, B.G., Shi, Y. (2020). Potent and Prolonged Innate Immune Activation by Enzyme-Responsive Imidazoquinoline TLR7/8 Agonist Prodrug Vesicles *J Am Chem Soc* *142*,12133-12139. DOI: 10.1021/jacs.0c01928
- Wassermann, L., Helgers, S.O.A., Riedesel, A.K., Talbot, S.R., Bleich, A., Schwabe, K., Häger, C. (2020). Monitoring of Heart Rate and Activity Using Telemetry Allows Grading of Experimental Procedures Used in Neuroscientific Rat Models *Front Neurosci* *14*,587760. DOI: 10.3389/fnins.2020.587760
- Wieschowski, S., Laser, H., Sena, E.S., Bleich, A., Tolba, R., Strech, D. (2020). Attitudes towards animal study registries and their characteristics: An online survey of three cohorts of animal researchers *PLoS One* *15*,e0226443. DOI: 10.1371/journal.pone.0226443
- Wilkinson, M., Sinclair, P., Dellatorre-Teixeira, L., Swan, P., Brennan, E., Moran, B., Wedekind, D., Downey, P., Sheahan, K., Conroy, E., Gallagher, W.M., Docherty, N., Roux, C.L., Brennan, D.J. (2020). The Molecular Effects of a High Fat Diet on Endometrial Tumour Biology *Life (Basel)* *10*,DOI: 10.3390/life10090188
- Willers, M., Ulas, T., Völlger, L., Vogl, T., Heinemann, A.S., Pirr, S., Pagel, J., Fehlhaber, B., Halle, O., Schöning, J., Schreek, S., Löber, U., Essex, M., Hombach, P., Graspeuntner, S., Basic, M., Bleich, A., Cloppenburg-Schmidt, K., Künzel, S., Jonigk, D., Rupp, J., Hansen, G.,

Förster, R., Baines, J.F., Härtel, C., Schultze, J.L., Forslund, S.K., Roth, J., Viemann, D. (2020). S100A8 and S100A9 are Important for Post-natal Development of Gut Microbiota and Immune System in Mice and Infants *Gastroenterology* 159,2130-2145.e5. DOI: 10.1053/j.gastro.2020.08.019

Wolf, B.J., Brackhan, M., Bascunana, P., Leiter, I., Langer, B.L.N., Ross, T.L., Bankstahl, J.P., Bankstahl, M. (2020). TSPO PET Identifies Different Anti-inflammatory Minocycline Treatment Response in Two Rodent Models of Epileptogenesis *Neurotherapeutics* 17,1228-1238. DOI: 10.1007/s13311-020-00834-5

Youssef, A., Pena Fernandez, A., Wassermann, L., Biernot, S., Wittauer, E.M., Bleich, A., Hartung, J., Berckmans, D., Norton, T. (2020). An Approach towards Motion-Tolerant PPG-Based Algorithm for Real-Time Heart Rate Monitoring of Moving Pigs Sensors (Basel) 20, DOI: 10.3390/s20154251

Yuzefovych, Y., Valdivia, E., Rong, S., Hack, F., Rother, T., Schmitz, J., Bräsen, J.H., Wedekind, D., Moers, C., Wenzel, N., Gueler, F., Blasczyk, R., Figueiredo, C. (2020). Genetic Engineering of the Kidney to Permanently Silence MHC Transcripts During ex vivo Organ Perfusion *Front Immunol* 11,265. DOI: 10.3389/fimmu.2020.00265

Zieglowski, L., Kümmecke, A., Ernst, L., Schulz, M., Talbot, S.R., Palme, R., Czaplik, M., Tolba, R.H. (2020). Severity assessment using three common behavioral or locomotor tests after laparotomy in rats: a pilot study *Lab Anim* 54,525-535. DOI: 10.1177/0023677220911680

Übersichtsarbeiten

Leenaars, C., Stafleu, F., de Jong, D., van Berlo, M., Geurts, T., Coenen-de Roo, T., Prins, J.B., Kempkes, R., Elzinga, J., Bleich, A., de Vries, R., Meijboom, F., Ritskes-Hoitinga, M. (2020). A Systematic Review Comparing Experimental Design of Animal and Human Methotrexate Efficacy Studies for Rheumatoid Arthritis: Lessons for the Translational Value of Animal Studies *Animals (Basel)* 10, DOI: 10.3390/ani10061047

Leenaars, C., Tsaioun, K., Stafleu, F., Rooney, K., Meijboom, F., Ritskes-Hoitinga, M., Bleich, A. (2021). Reviewing the animal literature: how to describe and choose between different types of literature reviews *Lab Anim* 55,129-141. DOI: 10.1177/0023677220968599

Meijboom, F.L.B., Kostrzewa, E., Leenaars, C.H.C. (2020). Joining forces: the need to combine science and ethics to address problems of validity and translation in neuropsychiatry research using animal models *Philos Ethics Humanit Med* 15,1. DOI: 10.1186/s13010-019-0085-4

Morahan, H.L., Leenaars, C.H.C., Boakes, R.A., Rooney, K.B. (2021). Metabolic and behavioural effects in offspring exposed to maternal sucrose consumption: a systematic review and meta-analysis of data from rodent models *J Dev Orig Health Dis* 12,603-618. DOI: 10.1017/S2040174420000823

Ritskes-Hoitinga, M., Leenaars, C., Beumer, W., Coenen-de Roo, T., Stafleu, F., Meijboom, F.L.B. (2020). Improving Translation by Identifying Evidence for More Human-Relevant Preclinical Strategies *Animals (Basel)* 10, DOI: 10.3390/ani10071170

Van der Mierden, S., Leenaars, C.H.C., Boyle, E.C., Ripoli, F.L., Gass, P., Durst, M., Goerlich-Jansson, V.C., Jirkof, P., Keubler, L.M., Talbot, S.R., Habedank, A., Lewejohann, L., Tolba, R.H., Bleich, A. (2021). Measuring endogenous corticosterone in laboratory mice - a mapping review, meta-analysis, and open source database *ALTEX* 38,111-122. DOI: 10.14573/altex.2004221

Editorials

Bleich, A., Bankstahl, M., Jirkof, P., Prins, J.B., Tolba, R.H. (2020). Severity Assessment in animal based research *Lab Anim* 54,16. DOI: 10.1177/0023677219898105

Buchbeiträge, Monografien

Lenzen, S., Arndt, T., Elsner, M., Wedekind, D., Jörns, A. (2020). Rat Models of Human Type 1 Diabetes *Methods Mol Biol* 2128,69-85. DOI: 10.1007/978-1-0716-0385-7_5

sonstiges

Van der Mierden, S., Leenaars, C., Bleich, A. (2020). R2N Science Camp *ALTEX* 37,315-316. DOI: 10.14573/altex.2002211

Promotionen

Brooks, S.P. (2020). Cdcs1-determined colitis susceptibility: genetic factors *Kumulative Dissertation, Medizinische Hochschule Hannover, 2020*

Institut für Virologie – 5230

Originalpublikationen

- Augestad, E.H., Castelli, M., Clementi, N., Ströh, L.J., Krey, T., Burioni, R., Mancini, N., Bukh, J., Prentoe, J. (2020). Global and local envelope protein dynamics of hepatitis C virus determine broad antibody sensitivity *Sci Adv* *6*, eabb5938. DOI: 10.1126/sciadv.abb5938
- Ayub, H., Clare, M., Milic, I., Chmel, N.P., Böning, H., Devitt, A., Krey, T., Bill, R.M., Rothnie, A.J. (2020). CD81 extracted in SMALP nanodiscs comprises two distinct protein populations within a lipid environment enriched with negatively charged headgroups *Biochim Biophys Acta Biomembr* *1862*, 183419. DOI: 10.1016/j.bbmem.2020.183419
- Bankwitz, D., Bahai, A., Labuhn, M., Doepke, M., Ginkel, C., Khera, T., Todt, D., Ströh, L.J., Dold, L., Klein, F., Klawonn, F., Krey, T., Behrendt, P., Cornberg, M., McHardy, A.C., Pietschmann, T. (2021). Hepatitis C reference viruses highlight potent antibody responses and diverse viral functional interactions with neutralising antibodies *Gut* *70*, 1734-1745. DOI: 10.1136/gutjnl-2020-321190
- Berger, A., Muenchhoff, M., Hourfar, K., Kortenbusch, M., Ambiel, I., Stegmann, L., Heim, A., Sarrazin, C., Ehret, R., Daniel, V., Wasner, M., Plantier, J.C., Eberle, J., Gürtler, L., Haberl, A.E., Stürmer, M., Keppler, O.T. (2020). Severe underquantification of HIV-1 group O isolates by major commercial PCR-based assays *Clin Microbiol Infect* *26*, 1688.e1. DOI: 10.1016/j.cmi.2020.03.004
- Bodda, C., Reinert, L.S., Fruhwürth, S., Richardo, T., Sun, C., Zhang, B.C., Kalamvoki, M., Pohlmann, A., Mogensen, T.H., Bergstrom, P., Agholme, L., O'Hare, P., Sodeik, B., Gyrd-Hansen, M., Zetterberg, H., Paludan, S.R. (2020). HSV1 VP1-2 deubiquitinates STING to block type I interferon expression and promote brain infection. *J Exp Med* *217*, e20191422 [pii]. DOI: 10.1084/jem.20191422
- Bosnjak, B., Stein, S.C., Willenzon, S., Cordes, A.K., Puppe, W., Bernhardt, G., Ravens, I., Ritter, C., Schultze-Florey, C.R., Gödecke, N., Martens, J., Kleine-Weber, H., Hoffmann, M., Cossmann, A., Yilmaz, M., Pink, I., Hoepfer, M.M., Behrens, G.M.N., Pöhlmann, S., Blasczyk, R., Schulz, T.F., Forster, R. (2021). Low serum neutralizing anti-SARS-CoV-2 S antibody levels in mildly affected COVID-19 convalescent patients revealed by two different detection methods *Cell Mol Immunol* *18*, 936-944. DOI: 10.1038/s41423-020-00573-9
- Brown, R.J.P., Tegtmeyer, B., Sheldon, J., Khera, T., Anggakusuma, Todt, D., Vieyres, G., Weller, R., Joecks, S., Zhang, Y., Sake, S., Bankwitz, D., Welsch, K., Ginkel, C., Engelmann, M., Gerold, G., Steinmann, E., Yuan, Q., Ott, M., Vondran, F.W.R., Krey, T., Ströh, L.J., Miskey, C., Ivics, Z., Herder, V., Baumgärtner, W., Lauber, C., Seifert, M., Tarr, A.W., McClure, C.P., Randall, G., Baktash, Y., Ploss, A., Thi, V.L.D., Michailidis, E., Saeed, M., Verhoye, L., Meuleman, P., Goedecke, N., Wirth, D., Rice, C.M., Pietschmann, T. (2020). Liver-expressed Cd302 and Cr1l limit hepatitis C virus cross-species transmission to mice *Sci Adv* *6*, DOI: 10.1126/sciadv.abd3233
- Cordes, A.K., Rehrauer, W.M., Accola, M.A., Wölk, B., Hilfrich, B., Heim, A. (2021). Fully automated detection and differentiation of pandemic and endemic coronaviruses (NL63, 229E, HKU1, OC43 and SARS-CoV-2) on the Hologic Panther Fusion *J Med Virol* *93*, 4438-4445. DOI: 10.1002/jmv.26749
- Elsner, C., Ponnurangam, A., Kazmierski, J., Zillinger, T., Jansen, J., Todt, D., Döhner, K., Xu, S., Ducroux, A., Kriedemann, N., Malassa, A., Larsen, P.K., Hartmann, G., Barchet, W., Steinmann, E., Kalinke, U., Sodeik, B., Goffinet, C. (2020). Absence of cGAS-mediated type I IFN responses in HIV-1-infected T cells *Proc Natl Acad Sci U S A* *117*, 19475-19486. DOI: 10.1073/pnas.2002481117
- Fabits, M., Goncalves Magalhães, V., Chan, B., Girault, V., Elbasani, E., Rossetti, E., Saeland, E., Messerle, M., Pichlmair, A., Lisnic, V.J., Brinkmann, M.M. (2020). The Cytomegalovirus Tegument Protein UL35 Antagonizes Pattern Recognition Receptor-Mediated Type I IFN Transcription *Microorganisms* *8*, DOI: 10.3390/microorganisms8060790
- Fichtner, A.S., Bubke, A., Rampoldi, F., Wilharm, A., Tan, L., Steinbrück, L., Schultze-Florey, C., von Kaisenberg, C., Prinz, I., Herrmann, T., Ravens, S. (2020). TCR repertoire analysis reveals phosphoantigen-induced polyclonal proliferation of Vgamma9Vdelta2 T cells in neonates and adults. *J Leukoc Biol* *107*, 1023-1032. DOI: 10.1002/JLB.1MA0120-427RR
- Gabaev, I., Williamson, J.C., Crozier, T.W.M., Schulz, T.F., Lehner, P.J. (2020). Quantitative Proteomics Analysis of Lytic KSHV Infection in Human Endothelial Cells Reveals Targets of Viral Immune Modulation *Cell Rep* *33*, 108249. DOI: 10.1016/j.celrep.2020.108249
- Ganzenmueller, T., Kaiser, R., Baier, C., Wehrhane, M., Hilfrich, B., Witthuhn, J., Flucht, S., Heim, A. (2020). Comparison of the performance of the Panther Fusion respiratory virus panel to R-Gene and laboratory developed tests for diagnostic and hygiene screening specimens from the upper and lower respiratory tract. *J Med Microbiol* *69*, 427-435. DOI: 10.1099/jmm.0.001133
- Häge, S., Sonntag, E., Borst, E.M., Tannig, P., Seyler, L., Bäuerle, T., Bailer, S.M., Lee, C.P., Müller, R., Wangen, C., Milbradt, J., Marschall, M. (2020). Patterns of Autologous and Nonautologous Interactions Between Core Nuclear Egress Complex (NEC) Proteins of alpha-, beta- and gamma-Herpesviruses *Viruses* *12*, 303. DOI: 10.3390/v12030303

- Hensel, N., Raker, V., Förthmann, B., Buch, A., Sodeik, B., Pich, A., Claus, P. (2020). The Proteome and Secretome of Cortical Brain Cells Infected With Herpes Simplex Virus. *Front Neurol* *11*,844. DOI: 10.3389/fneur.2020.00844
- Kirsch, P., Jakob, V., Elgaher, W.A.M., Walt, C., Oberhausen, K., Schulz, T.F., Empting, M. (2020). Discovery of Novel Latency-Associated Nuclear Antigen Inhibitors as Antiviral Agents Against Kaposi's Sarcoma-Associated Herpesvirus. *ACS Chem Biol* *15*,388-395. DOI: 10.1021/acscchembio.9b00845
- Kirsch, P., Stein, S.C., Berwanger, A., Rinkes, J., Jakob, V., Schulz, T.F., Empting, M. (2020). Hit-to-lead optimization of a latency-associated nuclear antigen inhibitor against Kaposi's sarcoma-associated herpesvirus infections. *Eur J Med Chem* *202*,112525. DOI: 10.1016/j.ejmech.2020.112525
- Kopfnagel, V., Dreyer, S., Baumert, K., Stark, M., Harder, J., Hofmann, K., Kleine, M., Buch, A., Sodeik, B., Werfel, T. (2020). RNase 7 promotes sensing of self-DNA by human keratinocytes and activates an antiviral immune response. *J Invest Dermatol* *140*,1589-1598.e3. DOI: 10.1016/j.jid.2019.09.029
- Krooss, S., Werwitzke, S., Kopp, J., Rovai, A., Varnholt, D., Wachs, A.S., Goyenvalle, A., Aarstma-Rus, A., Ott, M., Tiede, A., Langemeier, J., Bohne, J. (2020). Pathological mechanism and antisense oligonucleotide-mediated rescue of a non-coding variant suppressing factor 9 RNA biogenesis leading to hemophilia B. *PLoS Genet* *16*. DOI: 10.1371/journal.pgen.1008690
- Kropp, K.A., Lopez-Munoz, A.D., Ritter, B., Martin, R., Rastrojo, A., Srivaratharajan, S., Döhner, K., Dhingra, A., Czechowicz, J.S., Nagel, C.H., Sodeik, B., Alcami, A., Viejo-Borbolla, A. (2020). Herpes Simplex Virus 2 Counteracts Neurite Outgrowth Repulsion during Infection in a Nerve Growth Factor-Dependent Manner. *J Virol* *94*. DOI: 10.1128/JVI.01370-20
- Kropp, K.A., Srivaratharajan, S., Ritter, B., Yu, P., Krooss, S., Polten, F., Pich, A., Alcami, A., Viejo-Borbolla, A. (2020). Identification of the Cleavage Domain within Glycoprotein G of Herpes Simplex Virus Type 2. *Viruses* *12*,E1428 [pii]. DOI: 10.3390/v12121428
- Kühne, J.F., Neudörfel, C., Beushausen, K., Keil, J., Malysheva, S., Wandrer, F., Haller, H., Messerle, M., Blume, C., Neuenhahn, M., Schlott, F., Hammerschmidt, W., Zeidler, R., Falk, C.S. (2020). Differential effects of Belatacept on virus-specific memory versus de novo allo-specific T cell responses of kidney transplant recipients and healthy donors. *Transpl Immunol* *61*,101291. DOI: 10.1016/j.trim.2020.101291
- Kutle, I., Szymanska-de Wijs, K.M., Bogdanow, B., Cuvalo, B., Steinbrück, L., Jonjic, S., Wagner, K., Niedenthal, R., Selbach, M., Wiebusch, L., Dezeljin, M., Messerle, M. (2020). Murine Cytomegalovirus M25 Proteins Sequester the Tumor Suppressor Protein p53 in Nuclear Accumulations. *J Virol* *94*. DOI: 10.1128/JVI.00574-20
- Lang, J., Bohn, P., Bhat, H., Jastrow, H., Walkenfort, B., Cansiz, F., Fink, J., Bauer, M., Olszewski, D., Ramos-Nascimento, A., Duhan, V., Friedrich, S.K., Becker, K.A., Krawczyk, A., Edwards, M.J., Burchert, A., Huber, M., Friebus-Kardash, J., Göthert, J.R., Hardt, C., Probst, H.C., Schumacher, F., Köhrer, K., Kleuser, B., Babiychuk, E.B., Sodeik, B., Seibel, J., Greber, U.F., Lang, P.A., Gulbins, E., Lang, K.S. (2020). Acid ceramidase of macrophages traps herpes simplex virus in multivesicular bodies and protects from severe disease. *Nat Commun* *11*,1338. DOI: 10.1038/s41467-020-15072-8
- Lotke, R., Schneeweiss, U., Pietrek, M., Günther, T., Grundhoff, A., Weidner-Glunde, M., Schulz, T.F. (2020). Brd/BET Proteins Influence the Genome-Wide Localization of the Kaposi's Sarcoma-Associated Herpesvirus and Murine Gammaherpesvirus Major Latency Proteins. *Front Microbiol* *11*,591778. DOI: 10.3389/fmicb.2020.591778
- Riba, A., Hassani, K., Walker, A., van Best, N., von Zeschwitz, D., Anslinger, T., Sillner, N., Rosenhain, S., Eibach, D., Maiga-Ascofare, O., Rolle-Kampczyk, U., Basic, M., Binz, A., Mocek, S., Sodeik, B., Bauerfeind, R., Mohs, A., Trautwein, C., Kiessling, F., May, J., Klingenspor, M., Gremse, F., Schmitt-Kopplin, P., Bleich, A., Torow, N., von Bergen, M., Hornef, M.W. (2020). Disturbed gut microbiota and bile homeostasis in Giardia-infected mice contributes to metabolic dysregulation and growth impairment. *Sci Transl Med* *12*. DOI: 10.1126/scitranslmed.aay7019
- Sesterhenn, F., Yang, C., Bonet, J., Cramer, J.T., Wen, X., Wang, Y., Chiang, C.I., Abriata, L.A., Kucharska, I., Castoro, G., Vollers, S.S., Galloux, M., Dheilley, E., Rosset, S., Corthesy, P., Georgeon, S., Villard, M., Richard, C.A., Descamps, D., Delgado, T., Oricchio, E., Rameix-Welti, M.A., Mas, V., Ervin, S., Eleouet, J.F., Riffault, S., Bates, J.T., Julien, J.P., Li, Y., Jardetzky, T., Krey, T., Correia, B.E. (2020). De novo protein design enables the precise induction of RSV-neutralizing antibodies. *Science* *368*. DOI: 10.1126/science.aay5051
- Stolp, B., Thelen, F., Ficht, X., Altenburger, L.M., Ruef, N., Inavalli, V.V.G.K., Germann, P., Page, N., Moalli, F., Raimondi, A., Keyser, K.A., Seyed Jafari, S.M., Barone, F., Dettmer, M.S., Merkler, D., Iannaccone, M., Sharpe, J., Schlapbach, C., Fackler, O.T., Nägerl, U.V., Stein, J.V. (2020). Salivary gland macrophages and tissue-resident CD8(+) T cells cooperate for homeostatic organ surveillance. *Sci Immunol* *5*. DOI: 10.1126/sciimmunol.aaz4371
- Suarez, N.M., Blyth, E., Li, K., Ganzenmueller, T., Camiolo, S., Avdic, S., Withers, B., Linnenweber-Held, S., Gwinner, W., Dhingra, A., Heim, A., Schulz, T.F., Gunson, R., Gottlieb, D., Slobedman, B., Davison, A.J. (2020). Whole-Genome Approach to Assessing Human

Cytomegalovirus Dynamics in Transplant Patients Undergoing Antiviral Therapy *Front Cell Infect Microbiol* 10,267. DOI: 10.3389/fcimb.2020.00267

Theobald, S.J., Kreer, C., Khailaie, S., Bonifacius, A., Eiz-Vesper, B., Figueiredo, C., Mach, M., Backovic, M., Ballmaier, M., Koenig, J., Olbrich, H., Schneider, A., Volk, V., Danisch, S., Gieselmann, L., Ercanoglu, M.S., Messerle, M., Kaisenberg, C.V., Witte, T., Klawonn, F., Meyer-Hermann, M., Klein, F., Striepecke, R. (2020). Repertoire characterization and validation of gB-specific human IgGs directly cloned from humanized mice vaccinated with dendritic cells and protected against HCMV *PLoS Pathog* 16,e1008560. DOI: 10.1371/journal.ppat.1008560

Zeeb, M., Kerrinnes, T., Cicin-Sain, L., Guzman, C.A., Puppe, W., Schulz, T.F., Peters, A., Berger, K., Castell, S., Karch, A. (2020). Seropositivity for pathogens associated with chronic infections is a risk factor for all-cause mortality in the elderly: findings from the Memory and Morbidity in Augsburg Elderly (MEMO) Study *Geroscience* 42,1365-1376. DOI: 10.1007/s11357-020-00216-x

Zhang, W., Mese, K., Schellhorn, S., Bahlmann, N., Mach, N., Bunz, O., Dhingra, A., Hage, E., Lafon, M.E., Wodrich, H., Heim, A., Ehrhardt, A. (2020). High-Throughput Cloning and Characterization of Emerging Adenovirus Types 70, 73, 74, and 75 *Int J Mol Sci* 21,DOI: 10.3390/ijms21176370

Übersichtsarbeiten

Heim, A. (2020). Adenovirusinfektionen: Bunttes Bild von Krankheiten durch eine Vielzahl von Virustypen *Monatsschr Kinderheilkd* 168,514-523. DOI: 10.1007/s00112-020-00909-9

Ströh, L.J., Krey, T. (2020). HCV Glycoprotein Structure and Implications for B-Cell Vaccine Development *Int J Mol Sci* 21,DOI: 10.3390/ijms21186781

Wachs, A.S., Bohne, J. (2021). Two sides of the same medal: Noncoding mutations reveal new pathological mechanisms and insights into the regulation of gene expression *Wiley Interdiscip Rev RNA* 12,e1616. DOI: 10.1002/wrna.1616

Letter

Cordes, A.K., Heim, A. (2020). Rapid random access detection of the novel SARS-coronavirus-2 (SARS-CoV-2, previously 2019-nCoV) using an open access protocol for the Panther Fusion *J Clin Virol* 125,104305. DOI: 10.1016/j.jcv.2020.104305

Case reports

Huber, M., Rogozinski, S., Puppe, W., Framme, C., Höglinger, G., Hufendiek, K., Wegner, F. (2020). Postinfectious Onset of Myasthenia Gravis in a COVID-19 Patient *Front Neurol* 11,576153. DOI: 10.3389/fneur.2020.576153

Buchbeiträge, Monografien

Ganzenmüller, T., Puppe, W. (2020). Parvoviren. In: *Medizinische Mikrobiologie und Infektiologie*, Suerbaum S., eds. (Berlin: Springer) pp. 701-705

Heim, A. (2020). Adenoviren. In: *Medizinische Mikrobiologie und Infektiologie*, Suerbaum S., eds. (Berlin: Springer) pp. 717-721

Heim, A. (2020). Picornaviren. In: *Medizinische Mikrobiologie und Infektiologie*, Suerbaum S., eds. (Berlin: Springer) pp. 595-606

Heim, A., Ziesing, S., Schubert, S., Vonberg, R.P. (2020). Klinische Diagnostik und Probennahme. In: *Medizinische Mikrobiologie und Infektiologie*, Suerbaum S., eds. (Berlin: Springer) pp. 165-174

Pöhlmann, S., Schmitt, C. (2020). Orthomyxoviren: Influenza. In: *Medizinische Mikrobiologie und Infektiologie*, Suerbaum S., eds. (Berlin: Springer) pp. 629-634

Schmitt, C. (2020). Prionen. In: *Medizinische Mikrobiologie und Infektiologie*, Suerbaum S., eds. (Berlin: Springer) pp. 781-785

Ziesing, S., Schubert, S., Heim, A., Vonberg, R.P. (2020). Methoden der mikrobiologischen Diagnostik. In: *Medizinische Mikrobiologie und Infektiologie*, Suerbaum S., eds. (Berlin: Springer) pp. 175-198

Promotionen

Krooss, S. (2020). Gene therapeutic approaches and characterization of pathogenic mutations in liver-associated genes *Kumulative Dissertation, Medizinische Hochschule Hannover*, 2020

Otoo, D.A. (2019). Characterization of functional domains in the large tegument protein pUL36 of herpes simplex virus type 1 *Dissertation, Medizinische Hochschule Hannover*, 2020

Ramos do Nascimento, Ana Rita Henriques (2020). Host factors modulating HSV-1 infection E3 ubiquitin ligase ITCH limits susceptibility to HSV-1 by modulating surface availability of its receptor nectin-1 : importin α 1 is required for HSV-1 capsid assembly and nuclear egress
Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Soltani Jafari, S. (2019). Aflatoxine als Kofaktor für die Reaktivierung des Kaposi-Sarkom-assoziierten-Herpesvirus und dessen Rolle in der Pathogenese des endemischen Kaposi Sarkoms. Dissertation, Medizinische Hochschule Hannover, 2020

Torres, D.A.N. (2019). Kaposi sarcoma-associated Herpesvirus latency associated nuclear antigen (LANA) protein complexes isolation, separation and confirmation of new possible protein interactors Dissertation, Medizinische Hochschule Hannover, 2020

Wachs, A.S., Bohne, J., Holtmann, H., Medizinische Hochschule Hannover and Medizinische Hochschule Hannover Institut für Virologie (2020). The pathomechanisms of non-coding mutations elucidate U1 snRNP mediated inhibition of 3' end processing and highlight the impact of the 3'UTR for gene regulation Dissertation, Medizinische Hochschule Hannover, 2020

Zentrum Öffentliche Gesundheitspflege

Institut für Epidemiologie, Sozialmedizin und Gesundheitssystemforschung – 5410

Originalpublikationen

Becker, F., Roberts, K.J., Nadal, M., Zink, M., Stiegler, P., Pemberger, S., Castellana, T.P., Kellner, C., Murphy, N., Kaltenborn, A., Tuffs, A., Amelung, V., Krauth, C., Bayliss, J., Schrem, H.H. (2020). Optimizing Organ Donation: Expert Opinion from Austria, Germany, Spain and the U.K. *Ann Transplant* 25:e921727. DOI: 10.12659/AOT.921727

Bökel, A., Dierks, M.L., Gutenbrunner, C., Weidner, N., Geng, V., Kalke, Y.B., Liebscher, T., Abel, F.R., Sturm, C. (2020). Perceived environmental barriers for people with spinal cord injury in Germany and their influence on quality of life *J Rehabil Med* 52:jrm00090. DOI: 10.2340/16501977-2717

Bossert, S., Werdecker, L., Strech, D., Neitzke, G., Dierks, M.L., Meyer, A., Hirschberg, I. (2020). Ethik-Universität zur Regenerativen Medizin - ein Instrument der fundierten Meinungsbildung für Laien? *Gesundheitswesen* 82:e124-e137. DOI: 10.1055/a-1205-0672

Brandes, I., Kruckenberg, B. (2020). Relationship between onset of symptoms and diagnostic delay in women with endometriosis. *Arch Clin Obs Gyn Res* 1,1-7. DOI: 10.33425/2768-0304.1001

Chassagnol, F., Marcelli, G., Wagle, J., Giuliani, G., Traub, D., Schaub, V., Ruof, J. (2020). Review of Relative effectiveness assessments (REAs) of pharmaceuticals at the European network for health technology assessment (EUnetHTA): A first step towards a consolidated European perspective on comparative effectiveness & safety? *Health Policy* 124,943-951. DOI: 10.1016/j.healthpol.2020.06.013

Dehn-Hindenbergh, A., Saßmann, H., Dierks, M.L., Haack, M., Meyer, A., Walter, U., Lange, K. (2021). „Die ersten drei Einträge ...“. *Präv Gesundheitsf* 16,374-380. DOI: 10.1007/s11553-020-00811-y

Ernstmann, N., Bauer, U., Berens, E.M., Bitzer, E.M., Bollweg, T.M., Danner, M., Dehn-Hindenbergh, A., Dierks, M.L., Farin, E., Grobosch, S., Haarig, F., Halbach, S., Hollederer, A., Icks, A., Kowalski, C., Kramer, U., Neugebauer, E., Okan, O., Pelikan, J., Pfaff, H., Sautermeister, J., Schaeffer, D., Schang, L., Schulte, H., Siegel, A., Sundmacher, L., Vogt, D., Vollmar, H.C., Stock, S. (2020). DNVF Memorandum Gesundheitskompetenz (Teil 1) - Hintergrund, Relevanz, Gegenstand und Fragestellungen in der Versorgungsforschung. *Gesundheitswesen* 82,e77-e93. DOI: 10.1055/a-1191-3689

Fricke, L.M., Glöckner, S., Dreier, M., Lange, B. (2021). Impact of non-pharmaceutical interventions targeted at COVID-19 pandemic on influenza burden - a systematic review *J Infect* 82,1-35. DOI: 10.1016/j.jinf.2020.11.039

Illiger, K., Walter, U., Koppelin, F. (2020). The Dementia-Specific Self-Concept – Developing a Model of Experiencing and Coping with the Disease Situation of Persons Living Alone with Dementia. *Ageing Sci Ment Health Stud* 4,1-12.

Jaehn, P., Rehling, J., Klawunn, R., Merz, S., Holmberg, C., Bolte, G., Mena, E., Rommel, A., Saß, A., Pöge, K., Strasser, S., Holmberg, C., Jaehn, P., Merz, S. (2020). Practice of reporting social characteristics when describing representativeness of epidemiological cohort studies – a rationale for an intersectional perspective. *SSM - Population Health* 100617. DOI: 10.1016/j.ssmph.2020.100617

Kabbani, A.R., Schultalbers, M., Tergast, T., Kimmann, M., Stahmeyer, J., Manns, M.P., Cornberg, M., Maasoumy, B., Becker, H. (2020). Einfluss einer spontan bakteriellen Peritonitis, nosokomialer Infektionen und eines akut auf chronischen Leberversagens auf die

Behandlungserlose bei Patienten mit dekompensierter Leberzirrhose in Deutschland. *Z Gastroenterol* 58,855-867. DOI: 10.1055/a-1217-7549

Koziel, M., Mazurek, M., Teutsch, C., Diener, H.C., Dubner, S.J., Halperin, J.L., Ma, C.S., Rothman, K.J., Brandes, A., Paquette, M., Zint, K., Franca, L.R., Lu, S., Bartels, D.B., Huisman, M.V., Lip, G.Y.H. (2020). Persistence with Anticoagulation for Atrial Fibrillation: Report from the GLORIA-AF Phase III 1-Year Follow-up *J Clin Med* 9, DOI: 10.3390/jcm9061969

Kriegisch, V., Kuhn, B., Dierks, M.L., Achenbach, J., Briest, J., Fink, M., Dusch, M., Amelung, V., Karst, M. (2021). Bewertung der ambulanten ärztlichen Schmerztherapie in Deutschland : Ergebnisse einer internetbasierten Querschnittsbefragung unter ambulant tätigen Schmerzmedizinern *Schmerz* 35,103-113. DOI: 10.1007/s00482-020-00492-8

Lander, J., Haack, M., Dierks, M.L. (2020). Bürger- und Patientenbeteiligung in der gesundheitsbezogenen Forschung: Wie wird über die Auswahl von Teilnehmenden berichtet? *Z Evid Fortbild Qual Gesundheitswes* 156-157,89-99. DOI: 10.1016/j.zefq.2020.08.004

Liersch, S., Krüger, K., Oedingen, C., Spreenber, A., Bergemann, T., Krauth, C. (2020). Evaluation of the pediatric-centered integrated care AOK Junior: protocol for a mixed-method study. *BMC Health Serv Res* 20,217. DOI: 10.1186/s12913-020-05088-7

Mackowiak, K., Kula, A., Brunemund, L., Walter, U. (2020). Förderung sozial-kognitiver Problemlösestrategien von Vorschulkindern. *Frühe Bildung* 9,110-117. DOI: 10.1026/2191-9186/a000481

Matterne, U., Egger, N., Tempes, J., Tischer, C., Lander, J., Dierks, M.L., Bitzer, E.M., Apfelbacher, C. (2021). Health literacy in the general population in the context of epidemic or pandemic coronavirus outbreak situations: Rapid scoping review *Patient Educ Couns* 104,223-234. DOI: 10.1016/j.pec.2020.10.012

Mortimer, K.M., Bartels, D.B., Hartmann, N., Capapey, J., Yang, J., Gately, R., Enger, C. (2020). Characterizing Health Outcomes in Idiopathic Pulmonary Fibrosis using US Health Claims Data. *Respiration* 99,108-118. DOI: 10.1159/000504630

Oedingen, C., Bartling, T., Dierks, M.L., Mühlbacher, A.C., Schrem, H., Krauth, C. (2020). Public preferences for the allocation of donor organs for transplantation: Focus group discussions. *Health Expect* 23,670-680. DOI: 10.1111/hex.13047

Quilling, E., Babitsch, B., Dadaczynski, K., Kruse, S., Kuchler, M., Köckler, H., Leimann, J., Walter, U. (2020). Municipal Health Promotion as Part of Urban Health: A Policy Framework for Action. *Sustainability* 12,6685. DOI: 10.3390/su12166685

Quilling, E., Kruse, S., Kuchler, M., Leimann, J., Walter, U. (2020). Models of Intersectoral Cooperation in Municipal Health Promotion and Prevention: Findings from a Scoping Review. *Sustainability* 12,6544. DOI: 10.3390/su12166544

Röding, D., Elkeles, T. (2020). Geschlechtsspezifische Inanspruchnahme von ambulanten medizinischen und präventiven Leistungen in einem ländlichen Raum. *Gesundheitswesen* DOI: 10.1055/a-1205-1105

Rutsch, M., Jochems, N., Schrader, A., Brandes, I., Weier, L., Deck, R. (2020). ReNaApp: increasing the long-term effects of oncological rehabilitation through an application after medical rehabilitation (ReNaApp): a quasi-randomized longitudinal study of prospective design *BMC Health Serv Res* 20,378. DOI: 10.1186/s12913-020-05248-9

Scholz, S., Biermann-Stallwitz, J., Brettschneider, C., Damm, O., Freytag, A., Greiner, W., Icks, A., König, H., Krauth, C., Kuhlmann, A., Kunigkeit, C., Montalbo, J., Mostardt, S., Mühlbacher, A., Neumann, A., Neusser, S., Plagemann, T., Schwalm, A., Ultsch, B., Wasem, J., Witte, J. (2020). Standardisierte Kostenberechnungen im deutschen Gesundheitswesen: Bericht der Arbeitsgruppe „Standardkosten“ des Ausschusses „ökonomische Evaluation“ der dggö. *Gesundh ökon Qual manag* 25,52-59. DOI: 10.1055/a-1107-0665

Sebastião, M., Hechtel, N., Krückeberg, J. (2021). „In den Müll?!“ – Ursachenforschung zur Nicht-Nutzung technischer Innovationen in der stationären Pflege. *Gesundheitswesen* 83,619-623. DOI: 10.1055/a-1138-0528

Seidel, G., Haack, M., Dierks, M.L. (2020). Krankheitsübergreifende Selbstmanagementkurse: Implikationen für die hausärztliche Versorgung. *ZFA* 96,31-36.

Zeppernick, F., Zeppernick, M., Janschek, E., Wölfler, M., Bornemann, S., Holtmann, L., Oehmke, F., Brandes, I., Scheible, C.M., Salehin, D., Pethick, S.V., Boosz, A.S., Krämer, B., Sillem, M., Bühler, K., Keckstein, J., Schweppe, K.W., Meinhold-Heerlein, I., for the QS Endo Working Group of the Endometriosis Research Foundation (SEF). (2020). QS ENDO Real – A Study by the German Endometriosis Research Foundation (SEF) on the Reality of Care for Patients with Endometriosis in Germany, Austria and Switzerland. *Geburtshilfe Frauenheilkd* 80,179-189. DOI: 10.1055/a-1068-9260

Zhou, Y., Buck, C., Maier, W., von Lengerke, T., Walter, U., Dreier, M. (2020). Built Environment and Childhood Weight Status: A Multi-Level Study Using Population-Based Data in the City of Hannover, Germany. *Int J Environ Res Public Health* 17,2694. DOI: 10.3390/ijerph17082694

Übersichtsarbeiten

Diedrich, L., Dockweiler, C. (2021). Video-based teleconsultations in pharmaceutical care - A systematic review *Res Social Adm Pharm* 17,1523-1531. DOI: 10.1016/j.sapharm.2020.12.002

Kröger, L., Kuhlmann, E. (2020). Direktzugang: ein Modell für die Logopädie - Eine Studie zu den Möglichkeiten und Barrieren der Umsetzung eines zukunftsfähigen Regulierungsmodells *forum: logopädie* 34,48.

Seidel, G., Dierks, M.L. (2020). Die Bürger fördern. *Pflegez* 73,24-27. DOI: 10.1007/s41906-020-0914-5

Tomsic, I., Heinze, N.R., Chaberny, I.F., Krauth, C., Schock, B., von Lengerke, T. (2020). Implementation interventions in preventing surgical site infections in abdominal surgery: a systematic review. *BMC Health Serv Res* 20,236. DOI: 10.1186/s12913-020-4995-z

Letter

Qu, Z., Oedingen, C., Bartling, T., Schrem, H., Krauth, C. (2020). Organ procurement and transplantation in Germany during the COVID-19 pandemic *Lancet* 396,1395. DOI: 10.1016/S0140-6736(20)32213-3

Case reports

Qu, D., Qiao, D.F., Klintschar, M., Qu, Z., Yue, X. (2021). High-throughput 16S rDNA sequencing assisting in the detection of bacterial pathogen candidates: a fatal case of necrotizing fasciitis in a child *Int J Legal Med* 135,399-407. DOI: 10.1007/s00414-020-02421-x

Comments

Lander, J., Dierks, M.L. (2020). 'Who is (Really) the Focus of Engagement?' - Evidence From Engagement Research. *Am J Bioeth* 20,69-71. DOI: 10.1080/15265161.2020.1745933

Buchbeiträge, Monografien

Amelung, V.E., Ex, P. (2020). New Work im Gesundheitswesen - eine Standortbestimmung. In: *Die Zukunft der Arbeit im Gesundheitswesen*, Amelung V.E., eds. (Berlin: Medizinisch Wissenschaftliche Verlagsgesellschaft) pp. 3-17

Betsch, C., Korn, L., Felgendreff, L., Eitze, S., Schmid, P., Sprengholz, P., Wieler, L., Schmich, P., Stollorz, V., Ramharter, M., Bosnjak, M., Omer, S.B., Thaiss, H., De Bock, F., Von Rüden, U., Crockett, M., Krauth, C., Brockmann, D., Schlosser, F. (2020). German COVID-19 Snapshot Monitoring (COSMO) - Welle 9 (28.04.2020). In: *PsychArchives, COSMO*, eds. (Trier: leibniz-psychology.org) pp. 1-83

Betsch, C., Korn, L., Felgendreff, L., Eitze, S., Schmid, P., Sprengholz, P., Wieler, L., Schmich, P., Stollorz, V., Ramharter, M., Bosnjak, M., Omer, S.B., Thaiss, H., De Bock, F., Von Rüden, U., Krauth, C., Bruder, M., Eger, J., Faust, J., Schneider, S. (2020). German COVID-19 Snapshot Monitoring (COSMO) - Welle 14 (09.06.2020). In: *PsychArchives, COSMO*, eds. (Trier: leibniz-psychology.org) pp. 1-93

Bitzer, E.M., Schwartz, F.W., Walter, U. (2020). Evaluation und Qualitätssicherung im Gesundheitswesen. In: *Handbuch Gesundheitswissenschaften*, Razum O., eds. (Weinheim Basel: Beltz Juventa) pp. 1034-1062

Krauth, C., Oedingen, C. (2019). Gesundheitsökonomische Grundlagen in der Prävention und Gesundheitsförderung. In: *Prävention und Gesundheitsförderung*, Tiemann M., eds. (Berlin, Heidelberg: Springer) pp. 1-16

Nickel, S., Bremer, K., Dierks, M.L., Haack, M., Schwinn, S., Borgetto, B., Kofahl, C. (2020). Digitalisierung in der gesundheitlichen Selbsthilfe - Ergebnisse einer Online-Umfrage bei Selbsthilfeorganisationen. In: *Selbsthilfegruppenjahrbuch 2020*, Deutsche Arbeitsgemeinschaft Selbsthilfegruppen, eds. (Gießen: Deutsche Arbeitsgemeinschaft Selbsthilfegruppen e.V. DAG SHG) pp. 142-153

Rothe, A., Wadepohl, H., Disep, L., Mai, M., Bethke, C., Feesche, J., Hormann, K., Kula, A. (2020). A dialectic stance: Möglichkeiten von Mixed-Methods-Designs zur Erfassung von Professionalität anhand videografischer Zugänge zu lernunterstützenden Fachkraft-Kind-Interaktionen. In: *Pädagogik der frühen Kindheit im Wandel gegenwärtige Herausforderungen und Wirklichkeiten*, Bloch B., eds. (Weinheim, Basel: Beltz Juventa) pp. 130-147

Schmitz, C., Berchtold, P., Cichon, I., Klapper, B., Amelung, V.E. (2020). Stand und Zukunft der interprofessionellen Zusammenarbeit in Deutschland. In: *Die Zukunft der Arbeit im Gesundheitswesen*, Amelung V.E., eds. (Berlin: MWV Medizinisch Wissenschaftliche Verlagsgesellschaft) pp. 183-198

Walter, U., Gerlich, M.G., Schwartz, F.W. (2020). Gesundheitsindikatoren. In: Leitbegriffe der Gesundheitsförderung und Prävention. Glossar zu Konzepten, Strategien und Methoden, Bundeszentrale für Gesundheitliche Aufklärung, eds. (Kölnpp. DOI: 10.17623/BZGA:224-i055-2.0

Herausgeberschaften

Amelung, V.E., Eble, S., Sjuts, R., Ballast, T., Hildebrandt, H., Knieps, F., Lägell, R., Ex, P., Afraz, F.C. (2020). Die Zukunft der Arbeit im Gesundheitswesen (Berlin: MWV Medizinisch Wissenschaftliche Verlagsgesellschaft).

Abstracts

Hechtel, N., Klawunn, R., Mazhari, R., Schmeer, R., Krückeberg, J. (2020). Wie kann Pflorgetechnologie bedarfsgerecht und nutzerorientiert ausgewählt werden? 65. Jahrestagung der Deutschen Gesellschaft für Medizinische Informatik, Biometrie und Epidemiologie e. V. (GMDS) 2020 & CEN-IBS 2020, Online Event, 06.-11.September 2020.

Heinze, N.R., Feesche, J., Kula, A., Walter, U., Dierks, M.L. (2020).Analyse von Essenssituationen in Kindertagesstätten hinsichtlich gesundheitsförderlicher Aspekte und gesundheitsbezogener Bildung. Gesundheitswesen 82,469. DOI: 10.1055/s-0040-1709017

Kreitlow, A., Steffens, S., Kuhlmann, E. (2020). COVID-19 and demand for global health in medical education: Findings from a survey at Medical School Hannover. In: 19. Deutscher Kongress für Versorgungsforschung (DKVF). sine loco [digital], 30.09.-01.10.2020, Deutsches Netzwerk Versorgungsforschung e. V., eds. (Düsseldorf: German Medical Science GMS Publishing House) pp. Doc20dkvf246

Krückeberg, J., Klawunn, R., Fuge, I., Mazhari, R., Schmeer, R., Hechtel, N. (2020).How to Decide upon Nursing Technologies - A Participation-Based Approach. Stud Health Technol Inform 270,1305-1306. DOI: 10.3233/SHTI200414

Krüger, K., Lapstich, A.M., Liersch, S., Krauth, C. (2020). Bewertung eines Vertrages zur Integrierten Versorgung mit dem Ziel der Krankheitsfrüherkennung bei Kindern und Jugendlichen aus Perspektive der Ärztinnen und Ärzte. In: 19. Deutscher Kongress für Versorgungsforschung (DKVF). sine loco [digital], 30.09.-01.10.2020, Deutsches Netzwerk Versorgungsforschung e. V., eds. (Düsseldorf: German Medical Science GMS Publishing House) pp. Doc20dkvf119

Lander, J., Dierks, M.L. (2020).Patient and Public Involvement in health research: evidence on the practice of participant selection. Eur J Public Health 30,v984. DOI: 10.1093/eurpub/ckaa166.1219

Lander, J., Dierks, M.L., Somogyi, J., Loss, J., Curbach, J. (2020). Provider perspectives and user needs. In: 19. Deutscher Kongress für Versorgungsforschung (DKVF). sine loco [digital], 30.09.-01.10.2020, Deutsches Netzwerk Versorgungsforschung e. V., eds. (Düsseldorf: German Medical Science GMS Publishing House) pp. Doc20dkvf075

Lander, J., Drixler, K., Dierks, M.L., Bitzer, E.M. (2020).Evidence-based reporting, methods and content of allergy-specific digital training programs. Eur J Public Health 30,v260. DOI: 10.1093/eurpub/ckaa165.702

Posselt, J., Kuhlmann, E. (2020).Digital health in a social health insurance system: new emergent market powers in Germany. Eur J Public Health 30,v533. DOI: 10.1093/eurpub/ckaa166.011

Poster

Bartling, T., Oedingen, C., Kohlmann, T., Schrem, H., Krauth, C. (2020).A systematic review of physicians' and patients' preferences regarding the allocation of deceased donor organs: to what extent are physicians acting as advocates for their patients? Transplantation 104,S246. DOI: 10.1097/01.tp.0000699704.39146.23

Oedingen, C., Bartling, T., Dierks, M.L., Mühlbacher, A.C., Schrem, H., Krauth, C. (2020).Systematic review and focus group discussions of public preferences for the allocation deceased donor organs as preliminary works: building a discrete choice experiment evaluating principles of distributive justice. Transplantation 104,S247. DOI: 10.1097/01.tp.0000699708.40118.67

sonstiges

Ernstmann, N., Bauer, U., Berens, E.M., Bitzer, E.M., Bollweg, T.M., Danner, M., Dehn-Hindenber, A., Dierks, M.L., Farin, E., Grobosch, S., Haarig, F., Halbach, S., Hollederer, A., Icks, A., Kowalski, C., Kramer, U., Neugebauer, E., Okan, O., Pelikan, J., Pfaff, H., Sautermeister, J., Schaeffer, D., Schang, L., Schulte, H., Siegel, A., Sundmacher, L., Vogt, D., Vollmar, H.C., Stock, S. (2020).DNVF Memorandum Gesundheitskompetenz (Teil 1) - Hintergrund, Relevanz, Gegenstand und Fragestellungen in der Versorgungsforschung: Kurzfassung. Gesundheitswesen 82,639-645. DOI: 10.1055/a-1191-3401

Kuhlmann, E., Dussault, G., Wismar, M. (2020).The Health Labour Market and the 'Human Face' of the Health Workforce: Analysis, Advocacy and Action. Eur J Public Health 30,iv1-iv36.

Sebastião, M., Pauls, A., Illiger, K., Zokoll, M., Gietzelt, M., Behrends, M. (2020). Partizipation als Herausforderung bei Forschungsprojekten zu assistierenden Gesundheitstechnologien - Ergebnisse eines interdisziplinären Workshops. *Pflegewissenschaft* 22,92-97. DOI: 10.3936/1723

Promotionen

Albrecht, U. (2020). Messen, vermessen, angemessen? Der Einfluss des Qualitätsbewusstseins auf die Bewertung von App-Metainformationen durch Mediziner*innen : eine Analyse unter der Prämisse der professionellen Nutzerorientierung. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Götz, N. (2018). Die Perspektive des Verwirklichungschancen-Ansatzes zur Analyse sozialer und gesundheitlicher Ungleichheitsdimensionen im höheren Lebensalter. Dissertation, Medizinische Hochschule Hannover, 2020

Götz, N. (2018). Die Perspektive des Verwirklichungschancen-Ansatzes zur Analyse sozialer und gesundheitlicher Ungleichheitsdimensionen im höheren Lebensalter : Anhangsverzeichnis. Dissertation, Medizinische Hochschule Hannover, 2020

Haack, M. (2020). Gesundheitskompetenz bei Männern mit Prostatakrebs - Wie Wissen und Kommunikationsfähigkeiten mit der Mitgliedschaft in einer Selbsthilfegruppe, subjektiver Lebensqualität und Progredienzangst zusammenhängen Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Lander, J. (2019). Bürger- und Patientenbeteiligung in der medizinischen Forschung: Theorie und Praxis der Auswahl und Repräsentativität von Teilnehmenden. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Michalik, T. (2018). Gesundheitsvorstellungen von Spätaussiedlerinnen im Alter - eine qualitative Studie Dissertation, Medizinische Hochschule Hannover, 2020

Tom-Aba, D. (2020). User Perception, Acceptability and Usefulness of Surveillance Outbreak Response Management and Analysis System (SORMAS) among Health Workers in Nigeria, West Africa, 2018-19. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Zidane, M.T.C. (2019). Patientenschulungsprogramme für Kinder mit Asthma bronchiale und Erwachsene mit Diabetes mellitus Typ 2 eine vergleichende Evaluation des Zugangs, der Qualität und der Effektivität in Warschau und Berlin Dissertation, Medizinische Hochschule Hannover, 2020

Masterarbeiten

Abu-Bonsrah, D. (2020). Human immune virus (HIV) counselling and testing (HCT): A comparative study among antenatal care (ANC) attendees in 2013 and 2019 in the Lawra Municipal Hospital of Ghana. Masterarbeit, Medizinische Hochschule Hannover, 2020

Behrens, C. (2020). Vergleich von europäischen Infektionsschutzstrategien am Beispiel der Masernprävention in Schweden, Deutschland und Frankreich. Eine Analyse von Masernimpfquoten und -inzidenzen zwischen 2006 und 2020. Masterarbeit, Medizinische Hochschule Hannover, 2020

Bremer, K. (2020). Digitalisierungsprozesse der Selbsthilfeunterstützungseinrichtungen in Deutschland - aktueller Stand und zukunftsbezogene Bedürfnisse. Masterarbeit, Medizinische Hochschule Hannover, 2020

Ernst, A. (2020). Neues Krankheitsbild "Suchtartige Internetnutzung". Welche Faktoren sind damit assoziiert? Eine Analyse der Daten von Beratungsaufsuchenden im re:set!-Projekt Niedersachsen. Masterarbeit, Medizinische Hochschule Hannover, 2020

Festing, D. (2020). Internetbasierte Interventionen für Menschen mit Depressionen - Eine systematische Analyse der deutschsprachigen Angebote, ihrer Verfügbarkeit und Zugangsmöglichkeiten. Masterarbeit, Medizinische Hochschule Hannover, 2020

Förster, M. (2020). Qualitätsmanagement im Krankenhaus neu eingeführt - Die Perspektive der Belegschaft. Masterarbeit, Medizinische Hochschule Hannover, 2020

Fricke, L. (2020). Einfluss der Maßnahmen zur Regulierung der COVID-19 Pandemie auf die Influenzaraten in Deutschland. Masterarbeit, Medizinische Hochschule Hannover, 2020

Göbel, D. (2020). Wissens- und Technologietransfer an einer medizinischen Fakultät - Analyse bisheriger Konzepte, Beurteilung von Transferstellen und die Perspektive von Forschern an einer ausgewählten Einrichtung. Masterarbeit, Medizinische Hochschule Hannover, 2020

Hamann, B. (2020). Die Rolle von Beratung im Prozess der Berufsrückkehr nach Mammakarzinom. Masterarbeit, Medizinische Hochschule Hannover, 2020

Karow, A. (2020). Zum Zusammenhang zwischen Zähneputzen und der Rate akuter respiratorischer Infektionen in Kindertageseinrichtungen (ZINFEKT): Eine ökologische Studie in ausgewählten Regionen Niedersachsens (2013 - 2018). Masterarbeit, Medizinische Hochschule Hannover, 2020

Lieke, H. (2020). Telemedizin in der Versorgung von Menschen mit Diabetes mellitus Typ 2 - Erfahrungen und Einschätzungen der Patientinnen und Patienten aus dem Ophthamed-Telenet Projekt. Masterarbeit, Medizinische Hochschule Hannover, 2020

Macasero, L. (2020). Wirkung von Selbstmanagement-Programmen für Menschen mit chronischer Erkrankung am Beispiel der INSEA "Gesund und aktiv leben" Kurse. Masterarbeit, Medizinische Hochschule Hannover, 2020

Pöpper, J. (2020). Krankheitskostenanalyse von KHK-Patienten mit Depressionen und Analyse von kostenbeeinflussenden Faktoren - Ergebnisse auf Basis der Daten der Teilnehmer an der SPIRR-CAD-Studie. Masterarbeit, Medizinische Hochschule Hannover, 2020

Rees, F. (2020). Schlafqualität bei Patienten mit koronarer Herzerkrankung mit und ohne depressiver Störung: Eine prospektive Kohortenstudie. Masterarbeit, Medizinische Hochschule Hannover, 2020

Reimann, S. (2020). Unterstützung der Selbstfürsorge von pflegenden Angehörigen durch mHealth - Wie nutzen pflegende Angehörige die Selbstfürsorge-Funktion einer unterstützenden Smartphone-Applikation und welche Nutzertypen ergeben sich daraus? Masterarbeit, Medizinische Hochschule Hannover, 2020

Schaefer, D. (2020). Pränataler Stress: Ein Rapid Review zu Auswirkungen auf die Geburt. Masterarbeit, Medizinische Hochschule Hannover, 2020

Sidahmed, S. (2020). Marital Life and Childbearing in Adult Patients with Congenital Heart Disease - A fifteen-year follow-up study. Masterarbeit, Medizinische Hochschule Hannover, 2020

Termöhlen, G. (2020). Geschlechtsspezifische Unterschiede im Alkoholkonsum von Jugendlichen und jungen Erwachsenen. Masterarbeit, Medizinische Hochschule Hannover, 2020

Tessarek, K. (2020). Implementierung eines Schulfaches Gesundheit in niedersächsischen Grundschulen - eine qualitative Untersuchung mittels Experteninterviews. Masterarbeit, Medizinische Hochschule Hannover, 2020

Trinh, T.H.H. (2020). Der stationäre Sektor im Wandel - am Beispiel ausgewählter europäischer Länder. Masterarbeit, Medizinische Hochschule Hannover, 2020

Institut für Ethik, Geschichte und Philosophie der Medizin – 5450

Originalpublikationen

Bossert, S., Werdecker, L., Strech, D., Neitzke, G., Dierks, M.L., Meyer, A., Hirschberg, I. (2020). Ethik-Universität zur Regenerativen Medizin - ein Instrument der fundierten Meinungsbildung für Laien? *Gesundheitswesen* 82,e124-e137. DOI: 10.1055/a-1205-0672

Gausemeier, B. (2020). Squaring the pedigree. *PaRDeS* 43-50. DOI: 10.25932/publishup-48556

Kahrass, H., Bossert, S., Schürmann, C., Strech, D. (2021). Details of risk-benefit communication in informed consent documents for phase I/II trials *Clin Trials* 18,71-80. DOI: 10.1177/1740774520971770

Lisner, W. (2020). Midwifery Under German Occupation in the Litzmannstadt Ghetto and in Western Poland. *Nashim* 86-116. DOI: 10.2979/nashim.36.1.06

Marckmann, G., Neitzke, G., Schildmann, J. (2020). Triage in der COVID-19-Pandemie - was ist gerecht? *DIVI* 11,172-178. DOI: 10.3238/DIVI.2020.0172-0178

Marckmann, G., Neitzke, G., Schildmann, J., Michalsen, A., Dutzmann, J., Hartog, C., Jöbges, S., Knochel, K., Michels, G., Pin, M., Riesen, R., Rogge, A., Taupitz, J., Janssens, U. (2020). Entscheidungen über die Zuteilung intensivmedizinischer Ressourcen im Kontext der COVID-19-Pandemie. *Med Klin Intensivmed Notfmed* 115,477-485. DOI: 10.1007/s00063-020-00708-w

Mertz, M., Nobile, H., Kahrass, H. (2020). Systematic reviews of empirical literature on bioethical topics: Results from a meta-review *Nurs Ethics* 27,960-978. DOI: 10.1177/0969733020907935

Müller, R., Aghdassi, A.A., Kruse, J., Lerch, M.M., Simon, P., Salloch, S. (2021). Perceptions of genetic testing in patients with hereditary chronic pancreatitis and their families: a qualitative triangulation. *Eur J Hum Genet* 29,29-38. DOI: 10.1038/s41431-020-00705-9

Oppermann, B., Neitzke, G. (2020). Klinisch-ethische Falldiskussion: Der Zahnarzt muss die Studenten gemäß ihrem Ausbildungsstand einsetzen. *ZM* 110,28-30.

Persson, K., Selter, F., Neitzke, G., Kunzmann, P. (2020). Philosophy of a "Good Death" in Small Animals and Consequences for Euthanasia in Animal Law and Veterinary Practice. *Animals* 10,124. DOI: 10.3390/ani10010124

Schaper, U., Beljan, M., Eitler, P., Ewing, C., Gammerl, B. (2020). Sexotic: The interplay between sexualization and exoticization. *Sexualities* 23,114-126. DOI: 10.1177/1363460718790863

Schwietering, J., Strech, D., Bittlinger, M. (2021). Reporting of prior clinical studies in Investigator's Brochures did not adhere to the basic principles of evidence synthesis: a cross-sectional study *J Clin Epidemiol* 130,87-95. DOI: 10.1016/j.jclinepi.2020.09.022

Seidlein, A.H., Bettin, H., Franikowski, P., Salloch, S. (2020). Gamified E-learning in medical terminology: the TERMIlator tool. *BMC Med Educ* 20,284. DOI: 10.1186/s12909-020-02204-3

Sievers, S., Wieschowski, S., Strech, D. (2021). Investigator brochures for phase I/II trials lack information on the robustness of preclinical safety studies *Br J Clin Pharmacol* 87,2723-2731. DOI: 10.1111/bcp.14615

Spoden, C. (2020). Deciding one's own death in advance: Biopower, living wills, and resistance to a legislation of death with dignity in Japan. *Contemporary Japan* 32,63-82. DOI: 10.1080/18692729.2020.1714279

Stoff, H. (2020). Das Material ist das Medium: Zur Geschichte des Selens. *GAIA* 29,123. DOI: 10.14512/gaia.29.2.10

Strzebonska, K., Wasylewski, M.T., Zaborowska, L., Riedel, N., Wieschowski, S., Strech, D., Waligora, M. (2020). Results dissemination of registered clinical trials across Polish academic institutions: a cross-sectional analysis *BMJ Open* 10,e034666. DOI: 10.1136/bmjopen-2019-034666

Wieschowski, S., Laser, H., Sena, E.S., Bleich, A., Tolba, R., Strech, D. (2020). Attitudes towards animal study registries and their characteristics: An online survey of three cohorts of animal researchers *PLoS One* 15,e0226443. DOI: 10.1371/journal.pone.0226443

Comments

Salloch, S. (2021). Standardize or Adapt? Treatment Diversity as an Ethical Issue. *Am J Bioeth* 21,29-31. DOI: 10.1080/15265161.2020.1845859

Editorials

Biontino, J., Mladenova, D., Spoden, C. (2020). Governing death and dying in Japan and its colonies – From state control to self-optimization. *Contemporary Japan* 32,2-5. DOI: 10.1080/18692729.2020.1717153

Buchbeiträge, Monografien

Gausemeier, B. (2020). *Zentrale Peripherie biologische und medizinische Forschung in Berlin-Buch, 1930–1989* (Stuttgart: Franz Steiner Verlag).

Geiger, K., Stoff, H. (2020). Lebensverlängerung – medizingeschichtlich. In: *Handbuch Sterben und Tod: Geschichte – Theorie – Ethik*, Wittwer H., eds. (Stuttgart: J.B. Metzler) pp. 191-196

Mertz, M. (2020). Empirical incursions. Validity dimensions of a moral norm and their dependency on evidence. In: *Empirical research and normative theory : transdisciplinary perspectives on two methodical traditions between separation and interdependence*, Bauer A.M., eds. (Berlin, Boston: De Gruyter) pp. 189-235

Richter, G., De Clercq, E., Mertz, M., Buyx, A. (2020). Reporting of secondary findings in genomic research: Stakeholders attitudes and preferences. In: *Secondary Findings in Genomic Research*, Langanke M.H., eds. (San Diego: Elsevier Science & Technology) pp. 99-132

Seidlein, A.H., Buchholz, M., Buchholz, I., Salloch, S. (2020). Subjektive Belastungen und moralische Pflichten in der Dreiecksbeziehung häuslicher Pflege. Eine empirisch-ethische Analyse. In: *Unterstützung für ältere Menschen : Beratung – Digitalisierung – Pflegepraxis*.

Beiträge des Preisträger-Forums in Berlin mit Projekten aus Bochum, Greifswald und München, Mahler C., eds. (Würzburg: Königshausen u. Neumann) pp. 37-66

Spoden, C. (2020). Lost in Translation? Grounded Theory and developing theoretical concepts. In: Studying Japan : handbook of research designs, fieldwork and methods, Kottmann N., eds. (Baden-Baden: Nomos) pp. 339-342

Stoff, H. (2020). Chemisch konservierte Zitrusfrüchte. Risikokalkulationen in den 1950er Jahren. In: Semmel aus Sägemehl : Lebensmittelkandale und Wissensordnungen, Steinberg S., eds. (Marburg: Büchner-Verlag) pp. 181-210

Stoff, H. (2020). Claude Bernard qui genuit Cannon qui genuit Rosenblueth apud Wiener "Teleologien der Biokybernetik". In: Affizierungs- und Teilhabeprozesse zwischen Organismen und Maschinen, Ochsner B., eds. (Wiesbaden, Heidelberg: Springer VS) pp. 3-23

Stoff, H. (2020). Die Komamethode : Willensfreiheit, Selbstverantwortung und der Anfang vom Ende der Roten Armee Fraktion im Winter 1984/85 (Berlin: Kulturverlag Kadmos).

Stoff, H. (2020). Sexualität. In: Technikanthropologie : Handbuch für Wissenschaft und Studium, Heßler M., eds. (Baden-Baden: Nomos, Edition Sigma) pp. 436-441

Herausgeberschaften

Schaper, U., Beljan, M., Eitler, P., Ewing, C., Gammerl, B. (2020). Sexotic. *Sexualities* 23,1-132.

Woopen, C., Janhsen, A., Mertz, M., Genske, A. (2020). Alternde Gesellschaft im Wandel zur Gestaltung einer Gesellschaft des langen Lebens (Berlin, Heidelberg: Springer).

sonstiges

Kagan, S. (2019). How to count animals, more or less (Oxford: Oxford University Press).

Marckmann, G., Neitzke, G., Schildmann, J., Michalsen, A., Dutzmann, J., Hartog, C., Jöbges, S., Knochel, K., Michels, G., Pin, M., Riesen, R., Rogge, A., Taupitz, J., Janssens, U. (2020). Decisions on the allocation of intensive care resources in the context of the COVID-19 pandemic. *Med Klin Intensivmed Notfmed* 115,5115-5122. DOI: 10.1007/s00063-020-00709-9

Mertz, M. (2020). Wie ist der Einsatz künstlicher Intelligenz in der Medizin zu bewerten? Eine kurze medizinethische Betrachtung. *Loccum Pelikan* 22-26.

Pietschmann, I.S., Mertz, M. (2020). Humanisme médical et médecine complémentaire, alternative et intégrative. *Archives de Philosophie* 83,83-102. DOI: 10.3917/aphi.834.0083

Promotionen

Sambruno Spannhoff, N. (2019). Die Tuberkulosefürsorge in der neuen Bundesrepublik : ein Zeitschriftendiskurs. Dissertation, Medizinische Hochschule Hannover, 2020

Struß, N. (2018). ADHS - Genealogie der Störungskonzepte und Etablierung der Pharmakotherapie in Deutschland : eine historische Diskursanalyse. Dissertation, Medizinische Hochschule Hannover, 2020

Urfa, K. (2019). Zwischen Fruchtbarkeit und Zwangssterilisation : Betrachtungen zu Forschungen an Frauen zur „Stärkung des Volkskörpers“ während des Nationalsozialismus, exemplarisch dargestellt anhand der Publikationen der Ärzte Stieve, Mayer und Seitz in der Deutschen Medizinischen Wochenschrift und Münchner Medizinischen Wochenschrift. Dissertation, Medizinische Hochschule Hannover, 2020

Forschungs- und Lehreinheit Medizinische Psychologie – 5430

Originalpublikationen

Becker, J., Ravens, E., Pape, L., Ernst, G. (2020). Somatic outcomes of young people with chronic diseases participating in transition programs: a systematic review. *Journal of Transition Medicine* 2,20200003. DOI: 10.1515/jtm-2020-0003

Biester, T., Bratina, N., Lange, K., Biester, S., Remus, K., Thomas, A., Danne, T., Kordonouri, O. (2020). Diabetesberatung zum Hybrid-AID-System bei Typ-1-Diabetes: neue Perspektiven und Therapieempfehlungen. *Diabetologie* 15,147-156. DOI: 10.1055/a-1079-4577

Dehn-Hindenbergh, A., Saßmann, H., Dierks, M.L., Haack, M., Meyer, A., Walter, U., Lange, K. (2021). „Die ersten drei Einträge ...“. *Präv Gesundheitsf* 16,374-380. DOI: 10.1007/s11553-020-00811-y

Ernst, G., Klein, L., Kowalewski, K., Szczepanski, R. (2020). Ich bin auch noch da - Schulung für Geschwister von chronisch kranken oder behinderten Kindern. *Klin Padiatr* 236,300-306. DOI: 10.1055/a-1214-6624

Ernstmann, N., Bauer, U., Berens, E.M., Bitzer, E.M., Bollweg, T.M., Danner, M., Dehn-Hindenbergh, A., Dierks, M.L., Farin, E., Grobosch, S., Haarig, F., Halbach, S., Hollederer, A., Icks, A., Kowalski, C., Kramer, U., Neugebauer, E., Okan, O., Pelikan, J., Pfaff, H., Sautermeister, J., Schaeffer, D., Schang, L., Schulte, H., Siegel, A., Sundmacher, L., Vogt, D., Vollmar, H.C., Stock, S. (2020). DNVF Memorandum Gesundheitskompetenz (Teil 1) - Hintergrund, Relevanz, Gegenstand und Fragestellungen in der Versorgungsforschung. *Gesundheitswesen* 82,e77-e93. DOI: 10.1055/a-1191-3689

Frielitz, F.S., Dördelmann, J., Lemke, S., Lange, K., Hiort, O., Katalinic, A., von Sengbusch, S. (2021). Assessing the benefits and challenges of video consultations for the treatment of children with type 1 diabetes - A qualitative study among diabetes professionals. *Exp Clin Endocrinol Diabetes* 129,831-836. DOI: 10.1055/a-1149-8814

Heinemann, L., Deiss, D., Siegmund, T., Schlüter, S., Naudorf, M., von Sengbusch, S., Lange, K., Freckmann, G. (2020). Glukosemessung und -kontrolle bei Patienten mit Typ-1- oder Typ-2-Diabetes. *Diabetologe* 16,489-509. DOI: 10.1007/s11428-020-00638-3

Kordonouri, O., Biester, T., Weidemann, J., Ott, H., Remus, K., Grothaus, J., Pisarek, N., Hartmann, R., Adolph, K., Lange, K., Danne, T. (2020). Lipoatrophy in children, adolescents and adults with insulin pump treatment: is there a beneficial effect of insulin glulisine? *Pediatr Diabetes* 21,1285-1291. DOI: 10.1111/pedi.13094

Kulzer, B., Albus, C., Herpertz, S., Kruse, J., Lange, K., Lederbogen, F., Petrak, F. (2020). Psychosoziales und Diabetes. *Diabetologie* 15,5232-5248. DOI: 10.1055/a-1194-2962

Mardiko, A.A., von Lengerke, T. (2020). When, how, and how long do adults in Germany self-reportedly wash their hands? Compliance indices based on handwashing frequency, technique, and duration from a cross-sectional representative survey. *Int J Hyg Environ Health* 230,113590. DOI: 10.1016/j.ijheh.2020.113590

Markwart, H., Bomba, F., Menrath, I., Brenk-Franz, K., Ernst, G., Thyen, U., Hildebrandt, A., Schmidt, S. (2020). Assessing empowerment as multidimensional outcome of a patient education program for adolescents with chronic conditions: A latent difference score model. *PLoS One* 15,e0230659. DOI: 10.1371/journal.pone.0230659

Neu, A., Bürger-Büsing, J., Danne, T., Dost, A., Holder, M., Holl, R.W., Holterhus, P., Kapellen, T., Karges, B., Kordonouri, O., Lange, K., Müller, S., Raile, K., Schweizer, R., von Sengbusch, S., Stachow, R., Wagner, V., Wiegand, S., Ziegler, R. (2020). Diagnostik, Therapie und Verlaufskontrolle des Diabetes mellitus im Kindes- und Jugendalter. *Diabetologie* 15,551-564. DOI: 10.1055/a-1193-3781

Ravens, E., Becker, J., Pape, L., Ernst, G. (2020). Psychosocial benefit and adherence of adolescents with chronic diseases participating in transition programs: a systematic review. *Journal of Transition Medicine* 2,20200009-20200009. DOI: 10.1515/jtm-2020-0009

Safieddine, B., Sperlich, S., Beller, J., Lange, K., Epping, J., Tetzlaff, J., Tetzlaff, F., Geyer, S. (2020). Socioeconomic inequalities in type 2 diabetes in employed individuals, nonworking spouses and pensioners. *SSM - Population Health* 11,100596. DOI: 10.1016/j.ssmph.2020.100596

Sassmann, H., Dehn-Hindenbergh, A., Jördening, M., Huhn, F., Landgraf, R., Lange, K. (2020). Gestörtes Essverhalten und psychosoziale Versorgungssituation junger Menschen mit Typ 1 Diabetes. *Psychother Psychosom Med Psychol* 70,449-456. DOI: 10.1055/a-1142-6705

Schlüter, S., Freckmann, G., Heinemann, L., Wintergerst, P., Lange, K. (2021). Evaluation of the SPECTRUM training programme for real-time continuous glucose monitoring: a real-world multicentre prospective study in 120 adults with type 1 diabetes. *Diabet Med* 38,e14467. DOI: 10.1111/dme.14467

von Lengerke, T., Afshar, K., Just, I., Lange, K. (2020). Classroom teaching with simulated patients during COVID-19: the communication skills course in the second year of the model medical curriculum Hannibal. *GMS J Med Educ* 37,Doc81. DOI: 10.3205/zma001374

von Lengerke, T., Afshar, K., Just, I., Lange, K. (2020). Präsenzlehre mit Simulationspersonen in Zeiten von COVID-19: Das Gesprächsführungspraktikum im 2. Studienjahr des Modellstudiengangs Hannibal. *GMS J Med Educ* 37,Doc81. DOI: 10.3205/zma001374

von Sengbusch, S., Doerdelmann, J., Lemke, S., Lange, K., Hiort, O., Katalinic, A., Frielitz, F.S. (2021). Parental expectations before and after 12-month experience with video consultations combined with regular outpatient care for children with type 1 diabetes: a qualitative study. *Diabet Med* 38,e14410. DOI: 10.1111/dme.14410

von Sengbusch, S., Eisemann, N., Mueller-Godeffroy, E., Lange, K., Doerdelmann, J., Erdem, A., Menrath, I., Bokelmann, J., Krasmann, M., Kaczmarczyk, P., Bertram, B., Hiort, O., Katalinic, A., Frielitz, F.S. (2020). Outcomes of monthly video consultations as an add-on to regular care for children with type 1 diabetes: a 6-month quasi-randomized clinical trial followed by an extension phase. *Pediatr Diabetes* 21,1502-1515. DOI: 10.1111/pedi.13133

Wegwarth, O., Kendel, F., Tomsic, I., von Lengerke, T., Härter, M. (2020). Die COVID-19-Pandemie: Risikokommunikation unter Unsicherheit. Akzeptanz und Vertrauen durch transparente Kommunikation im Zuge der COVID-19-Pandemie. *Umweltmed Hygiene Arbeitsmed* 25,141-147.

Zhou, Y., Buck, C., Maier, W., von Lengerke, T., Walter, U., Dreier, M. (2020). Built Environment and Childhood Weight Status: A Multi-Level Study Using Population-Based Data in the City of Hannover, Germany. *Int J Environ Res Public Health* 17,2694. DOI: 10.3390/ijerph17082694

Leitlinien von Fachgesellschaften

Heinemann, L., Deiss, D., Siegmund, T., Schlüter, S., Naudorf, M., von Sengbusch, S., Lange, K., Freckmann, G. (2020). Glukosemessung und -kontrolle bei Patienten mit Typ-1- oder Typ-2-Diabetes. *Diabetologie* 15,518-539. DOI: 10.1055/a-1179-2865

Übersichtsarbeiten

Hoffman, R.D., Thielmann, A., Buczkowski, K., Edirne, T., Hoffmann, K., Koskela, T., Lingner, H., Mevsim, V., Tekiner, S., Zielinski, A., Hoffman Cicurel, N., Petrazzuoli, F., Thulesius, H., Gerasimovska Kitanovska, B., Weltermann, B. (2021). Gender differences in self-care for common colds by primary care patients: a European multicenter survey on the prevalence and patterns of practices (the COCO study). *Journal of Gender Studies* 30,756-771. DOI: 10.1080/09589236.2020.1843010

Le Floch, B., Bastiaens, H., Le Reste, J., Lingner, H., Hoffman, R., Assenova, R., Koskela, T., Klemenc-Ketis, Z., Nabbe, P., Montier, T., Peremans, L. (2020). Which positive view of general practice do medical students and trainees have? A systematic literature review *Educ Prim Care* 37,104-111. DOI: 10.1080/14739879.2020.1716200

Le Floch, B., Bastiaens, H., Le Reste, J.Y., Lingner, H., Hoffman, R., Czachowski, S., Assenova, R., Koskela, T.H., Klemenc-Ketis, Z., Nabbe, P., Sowinska, A., Montier, T., Peremans, L. (2019). Which positive factors give general practitioners job satisfaction and make general practice a rewarding career? A European multicentric qualitative research by the European general practice research network *BMC Fam Pract* 20,96. DOI: 10.1186/s12875-019-0985-9

Tomsic, I., Heinze, N.R., Chaberny, I.F., Krauth, C., Schock, B., von Lengerke, T. (2020). Implementation interventions in preventing surgical site infections in abdominal surgery: a systematic review. *BMC Health Serv Res* 20,236. DOI: 10.1186/s12913-020-4995-z

Verdu-Rotellar, J.M., Vaillant-Roussel, H., Abellana, R., Jevsek, L.G., Assenova, R., Ladic, D.K., Torsza, P., Glynn, L.G., Lingner, H., Demurtas, J., Borgstrom, B., Gibot-Boeuf, S., Munoz, M.A. (2020). Precipitating factors of heart failure decompensation, short-term morbidity and mortality in patients attended in primary care. *Scand J Prim Health Care* 38,473-480. DOI: 10.1080/02813432.2020.1844387

Buchbeiträge, Monografien

Ernst, G. (2020). Ambulante Patientenschulungen nach §43 SGB V. In: *Modulares Schulungsprogramm ModuS für chronisch kranke Kinder, Jugendliche sowie deren Familien ; Band 1 (Modulare Patientenschulung)*, Ernst G., eds. (Lengerich: Pabst Science Publishers) pp. 10-12

Ernst, G., Szczepanski, R. (2020). Curriculum Modulares Schulungsprogramm für chronisch kranke Kinder und Jugendliche sowie deren Familien "ModuS". In: *Modulares Schulungsprogramm ModuS für chronisch kranke Kinder, Jugendliche sowie deren Familien ; Band 1 (Modulare Patientenschulung)*, Ernst G., eds. (Lengerich: Pabst Science Publishers) pp. 19-113

Gehr, B., Holder, M., Biermann, E., Carstensen, S., Deiss, D., Freckmann, G., Heidtmann, B., Heinemann, L., Kerth, E., Kulzer, B., Lange, K., Liebl, A., Lohr, R., Ludwig-Seibold, C., Meier, B., Remus, K., Sahn, C., Schulz-Braun, M., Schlüter, S., Siegmund, T., Thurm, U., von Senbusch, S., Wadien, T., Wernsing, M., Ziegler, R. (2020). Structured Training and Treatment Program for Continuous Glucose Monitoring (CGM) for Adults with Diabetes (Mainz: Kirchheim Verlag).

Gehr, B., Holder, M., Kulzer, B., Thurm, U., Siegmund, T., Sahn, C., Biermann, E., Carstensen, S., Freckmann, G., Heinemann, L., Kerth, E., Kolassa, R., Liebl, A., Lohr, R., Meier, B., Remus, K., Schlüter, S., Schulz-Braun, M., Wernsing, M., Lange, K. (2020). Spectrum - Training and Treatment Program for Continuous Glucose Monitoring (CGM) (Mainz: Kirchheim Verlag).

Herrmann, S. (2020). Compliance mit Interventionen zur Prävention nosokomialer Infektionen in Therapieberufen : eine systematische Übersicht (Hamburg: Diplomatica Verlag).

Klotmann, S. (2020). Struktur und Qualität der Diabetesschulung von Kindern und Jugendlichen in Europa (Hamburg: disserta Verlag).

Lange, K., Neu, A., Kulzer, B. (2020). Psychosoziale Versorgung von Menschen mit Diabetes - aktuelle Aspekte. In: Deutscher Gesundheitsbericht Diabetes 2021, Deutsche Diabetes Gesellschaft, eds. (Mainz: Kirchheim-Verlag) pp. 238-244

Schlüter, S., Freckmann, G. (2020). Diabetestechnologie - Hardware, Software und der Mensch. In: Deutscher Gesundheitsbericht Diabetes 2021, Deutsche Diabetes Gesellschaft, eds. (Mainz: Kirchheim-Verlag) pp. 166-172

von Lengerke, T., Lange, K. (2020). Das Simulationspatienten-Programm der Medizinischen Hochschule Hannover (SPP-MHH): Bestandsaufnahme anhand des Positionspapiers zu Mindeststandards beim Einsatz von Simulationspersonen der Gesellschaft für Medizinische Ausbildung (Hannover: MHH - Medizinische Hochschule Hannover).

Herausgeberschaften

Ernst, G., Szczepanski, R. eds. (2020). Modulares Schulungsprogramm für chronisch kranke Kinder und Jugendliche sowie deren Familien "ModuS" : Band 1: Modulare Patientenschulung (Lengerich: Pabst Science Publishers)

Abstracts

Biester, R., Remus, K., von Blankenburg, P., Buchal, G., Deiss, D., Freiberg, C., Holder, M., Ziegler, R., Freckmann, G., Schlüter, S., Lange, K. (2020). Evaluation of SPECTRUM CGM education program with parents of preschool kids- The CGM-TRAIN study. *Diabetes Technol Ther* 22,354. DOI: 10.1089/dia.2020.2525.abstracts

Biester, T., Buchal, G., Deiss, D., Freckmann, G., Freiberg, C., Fürst-Burger, A., Heinemann, L., Holder, M., Konrad, K., Klinkert, C., Remus, K., Schlüter, S., Thienel, F., van den Boom, L., von Blankenburg, P., Wernsing, M., Wintergerst, P., Ziegler, R., Lange, K. (2020). Evaluation of the SPECTRUM training program for real-time continuous glucose monitoring: a multicenter prospective study in adolescents with type 1 diabetes. *ISPAD 46th Annual Conference (virtual)*, 15.-17.10.2020.

Ernst, G. (2020). AOKTrio unterstützt bei der Transition. *Kinderärztl Prax* 97,56-57.

Ernst, G. (2020). Transition - Jugendliche professionell ins Erwachsenenalter begleiten. *Prävent Rehabil* 32,29.

Freckmann, G., Schlüter, S., Wintergerst, P., Heinemann, L., Lange, K. (2020). Evaluation of the SPECTRUM training program for real-time continuous glucose monitoring: a multicenter prospective study in 120 adults with type 1 diabetes. *Diabetologia* 63,308. DOI: 10.1007/s00125-020-05221-5

Freckmann, G., Schlüter, S., Wintergerst, P., Heinemann, L., Rückert, T., Hinz, A., Wernsing, M., Thienel, F., Biester, T., von Blankenburg, P., Keuthage, W., Ziegler, R., Martin, E., Holder, M., Deiss, D., Buchal, G., Van Den Boom, L., Lange, K. (2020). 338-OR: Evaluation of the Spectrum Training Program for Real-Time Continuous Glucose Monitoring: A Multicenter Prospective Study in 120 Adults with Type 1 Diabetes. *Diabetes* 69,338-OR. DOI: 10.2337/db20-338-OR

Lange, K., Biester, T., Buchal, G., Deiss, D., Freckmann, G., Freiberg, C., Heinemann, L., Holder, M., Remus, K., von Blankenburg, P., Wintergerst, P., Ziegler, R., Schlüter, S. (2020). Evaluation of the SPECTRUM training program for real-time continuous glucose monitoring: a multicenter prospective study in parents of 60 young children with type 1 diabetes. *ISPAD 46th Annual Conference (virtual)*, 15.-17.10.2020.

Sautmann, K. (2020). Chronisch krank und geistig fit: Life Kinetik - Gehirntraining und Bewegung. *Prävent Rehabil* 32,29.

Schlüter, S., Wernsing, M., Röver, K.M., Jördening, M., Holder, M., Freckmann, G., Lange, K. (2020). Development and statistical evaluation of a knowledge test for rtCGM (CGM-Profi-Check)-. *Diabetes Technol Ther* 22,413. DOI: 10.1089/dia.2020.2525.abstracts

von Sengbusch, S., Eisemann, N., Lange, K., Dördelmann, J., Lembe, S., Hiort, O., Katalinic, A., Frielitz, F.S. (2020). Monthly, structured video consultations for children with type 1 diabetes have a positive effect on metabolic control, diabetes burden and treatment satisfaction. Results from the VIDIKI study, a multicenter, controlled trial. *Diabetes Technol Ther* 22,138. DOI: 10.1089/dia.2020.2525.abstracts

Poster

Reschke, F., Galuschka, L., Weiner, C., Lange, K., Guntermann, C., Sadeghian, E., Landsberg, S., Danne, T. (2020). Digitalisierung und Videographische Umsetzung eines ambulanten Adipositasprogramms infolge COVID19: Herausforderung oder Chance? Jahrestagung der Deutschen Adipositas Gesellschaft, 08.-10.10.2020.

sonstiges

Ernst, G., Müther, S. (2020). Transition von Jugendlichen mit Typ-1-Diabetes - Aktuelle Konzepte. *Kinderärztl Prax* 97,348-354.

Ernstmann, N., Bauer, U., Berens, E.M., Bitzer, E.M., Bollweg, T.M., Danner, M., Dehn-Hindenberg, A., Dierks, M.L., Farin, E., Grobosch, S., Haairig, F., Halbach, S., Hollederer, A., Icks, A., Kowalski, C., Kramer, U., Neugebauer, E., Okan, O., Pelikan, J., Pfaff, H., Sautermeister,

J., Schaeffer, D., Schang, L., Schulte, H., Siegel, A., Sundmacher, L., Vogt, D., Vollmar, H.C., Stock, S. (2020). DNVF Memorandum Gesundheitskompetenz (Teil 1) - Hintergrund, Relevanz, Gegenstand und Fragestellungen in der Versorgungsforschung: Kurzfassung. Gesundheitswesen 82,639-645. DOI: 10.1055/a-1191-3401

Helmer, S.M., Pischke, C.R., Wegwarth, O., Rebitschek, F.G., Ellermann, C., Tomsic, I., von Lengerke, T., Härter, M. (2020). Wissenschaftsbasierte Öffentlichkeitskommunikation und -information im Rahmen einer nationalen COVID19-Impfstrategie. In: Kompetenznetz Public Health COVID-19, Public Health COVID-19, eds. (Bremen: Public Health COVID-19)

Wegwarth, O., Kendel, F., Tomsic, I., von Lengerke, T., Härter, M. (2020). Das Kommunizieren von Risiken und Unsicherheiten zur COVID-19-Pandemie: Akzeptanz und Vertrauen durch transparente Kommunikation ; Version 02. In: Kompetenznetz Public Health COVID-19,

Wegwarth, O., Kendel, F., Tomsic, I., von Lengerke, T., Härter, M. (2020). Risikokommunikation unter Unsicherheit (Bremen: Kompetenznetz Public Health COVID-19).

Promotionen

Illian, H. (2019). Entwicklung, Erprobung und Evaluation einer Checkliste zur Unterstützung Jugendlicher mit chronischen Erkrankungen während der Transition. Dissertation, Medizinische Hochschule Hannover, 2020

Forschungs- und Lehreinheit Medizinische Soziologie – 5420

Originalpublikationen

Beller, J. (2021). Personal values and mortality: Power, benevolence and self-direction predict mortality risk. Psychol Health 36,115-127. DOI: 10.1080/08870446.2020.1761976

Beller, J., Bauersachs, J., Schäfer, A., Schwettmann, L., Heier, M., Peters, A., Meisinger, C., Geyer, S. (2020). Diverging Trends in Age at First Myocardial Infarction: Evidence from Two German Population-Based Studies Sci Rep 10,9610. DOI: 10.1038/s41598-020-66291-4

Beller, J., Epping, J. (2021). Disability trends in Europe by age-period-cohort analysis: Increasing disability in younger cohorts. Disabil Health J 14,100948. DOI: 10.1016/j.dhjo.2020.100948

Beller, J., Regidor, E., Lostao, L., Miething, A., Kröger, C., Safieddine, B., Tetzlaff, F., Sperlich, S., Geyer, S. (2021). Decline of depressive symptoms in Europe: differential trends across the lifespan. Soc Psychiatry Psychiatr Epidemiol 56,1249-1262. DOI: 10.1007/s00127-020-01979-6

Beller, J., Wagner, A. (2020). Loneliness and Health: The Moderating Effect of Cross-Cultural Individualism/Collectivism. J Aging Health 32,1516-1527. DOI: 10.1177/0898264320943336

Dreyße, K., Beller, J., Armbrust, M., Kröger, C. (2020). A hierarchical analysis of the latent trait of borderline personality disorder and its possible clinical implications. Psychiatry Res 288,113023. DOI: 10.1016/j.psychres.2020.113023

Epping, J., Geyer, S., Tetzlaff, J. (2020). The effects of different lookback periods on the sociodemographic structure of the study population and on the estimation of incidence rates: analyses with German claims data. BMC Med Res Methodol 20,229. DOI: 10.1186/s12874-020-01108-6

Kliem, S., Beller, J., Tibubos, A.N., Brähler, E. (2020). Normierung und Evaluation der Messinvarianz der 8-Item-Kurzform der Center for Epidemiological Studies-Depression Scale (CES-D-8). Z Psychosom Med Psychother 66,259-271. DOI: 10.13109/zptm.2020.66.3.259

Kliem, S., Beller, J., Tibubos, A.N., Zenger, M., Schmalbach, B., Brähler, E. (2020). A reanalysis of the center for epidemiological studies depression scale (CES-D) using non-parametric item response theory. Psychiatry Res 290,113132. DOI: 10.1016/j.psychres.2020

Melk, A., Schmidt, B.M.W., Geyer, S., Epping, J. (2020). Sex disparities in dialysis initiation, access to waitlist, transplantation and transplant outcome in German patients with renal disease-A population based analysis PLoS One 15,e0241556. DOI: 10.1371/journal.pone.0241556

Safieddine, B., Sperlich, S., Beller, J., Lange, K., Epping, J., Tetzlaff, J., Tetzlaff, F., Geyer, S. (2020). Socioeconomic inequalities in type 2 diabetes in employed individuals, nonworking spouses and pensioners. *SSM - Population Health* 11,100596. DOI: 10.1016/j.ssmph.2020.100596

Schröder, S., Beller, J., Golpon, H., Geyer, S. (2020). Are there social gradients in the occurrence of lung cancer and in the survival of lung cancer patients? Findings from an observational study using German claims data of Lower Saxony. *BMJ Open* 10,e036506. DOI: 10.1136/bmjopen-2019-036506

Sperlich, S., Beller, J., Epping, J., Safieddine, B., Tetzlaff, J., Geyer, S. (2021). Are Disability Rates among People with Diabetes Increasing in Germany? A Decomposition Analysis of Temporal Change between 2004 and 2015. *J Aging Health* 33,205-216. DOI: 10.1177/0898264320970324

Sperlich, S., Beller, J., Epping, J., Tetzlaff, J., Geyer, S. (2020). Trends in self-rated health among the elderly population in Germany from 1995 to 2015 - the influence of temporal change in leisure time physical activity. *BMC Public Health* 20,113. DOI: 10.1186/s12889-020-8218-7

Tetzlaff, F., Epping, J., Golpon, H., Tetzlaff, J. (2020). Compression, expansion, or maybe both? Growing inequalities in lung cancer in Germany *PLoS One* 15,e0242433. DOI: 10.1371/journal.pone.0242433

Tetzlaff, F., Epping, J., Sperlich, S., Tetzlaff, J. (2020). Widening income inequalities in life expectancy? Analysing time trends based on German health insurance data. *J Epidemiol Community Health* 74,592-597. DOI: 10.1136/jech-2019-212966

Tetzlaff, J., Geyer, S., Tetzlaff, F., Epping, J. (2020). Income inequalities in stroke incidence and mortality: Trends in stroke-free and stroke-affected life years based on German health insurance data *PLoS One* 15,e0227541. DOI: 10.1371/journal.pone.0227541

van Baal, K., Schrader, S., Schneider, N., Wiese, B., Stahmeyer, J.T., Eberhard, S., Geyer, S., Stiel, S., Afshar, K. (2020). Quality indicators for the evaluation of end-of-life care in Germany - a retrospective cross-sectional analysis of statutory health insurance data *BMC Palliat Care* 19,187. DOI: 10.1186/s12904-020-00679-x

van Baal, K., Schrader, S., Wiese, B., Geyer, S., Stiel, S., Schneider, N., Müller-Mundt, G., Afshar, K. (2020). GPs' perspective on End-of-Life Care – an evaluation based on the German version of the General Practice End of Life Care Index. *Ger Med Sci* 18,Doc10. DOI: 10.3205/000286

Buchbeiträge, Monografien

Geyer, S. (2020). Sozialwissenschaftliche Verfahren in den Gesundheitswissenschaften. In: *Handbuch Gesundheitswissenschaften*, Razum O., eds. (Weinheim Basel: Beltz Juventa) pp. 326-356

Geyer, S., Eberhard, S. (2021). *Später krank und länger gesund? Die Morbiditätskompression und ihre Alternativen* (Bern: Hogrefe).

Geyer, S., Sperlich, S. (2020). Zeitliche Trends in Morbidität und Gesundheit bei Männern in Deutschland. In: *Männer und der Übergang in die Rente : Vierter Deutscher Männergesundheitsbericht der Stiftung Männergesundheit*, Jürges H., eds. (Gießen: Psychosozial-Verlag) pp. 31-43

Zentrum Biometrie, medizinische Informatik und Medizintechnik

Institut für Biometrie – 8410

Originalpublikationen

Ahlenstiel-Grunow, T., Liu, X., Schild, R., Oh, J., Taylan, C., Weber, L.T., Staude, H., Verboom, M., Schröder, C., Sabau, R., Grosshennig, A., Pape, L. (2021). Steering Transplant Immunosuppression by Measuring Virus-Specific T Cell Levels: The Randomized, Controlled IVIST Trial *J Am Soc Nephrol* 32,502-516. DOI: 10.1681/ASN.2020050645

Baier, C., Ipaktchi, R., Schwab, F., Smith, A., Liu, X., Ebadi, E., Limbourg, A., Mett, T.R., Bange, F., Vogt, P.M. (2019). Universal decolonization with octenidine: First experiences in a tertiary burn intensive care unit. *Burns Open* 3,8-11. DOI: 10.1016/j.burnso.2018.10.003

- Bunk, D., Eisenburger, M., Häckl, S., Eberhard, J., Stiesch, M., Grischke, J. (2020). The effect of adjuvant oral irrigation on self-administered oral care in the management of peri-implant mucositis: A randomized controlled clinical trial. *Clin Oral Implants Res* *31*,946-958. DOI: 10.1111/clr.13638
- Clausen, J.D., Nahen, N., Horstmann, H., Lasch, F., Krutsch, W., Krettek, C., Weber-Spickschen, T.S. (2020). Improving Maximal Strength in the Initial Postoperative Phase After Anterior Cruciate Ligament Reconstruction Surgery: Randomized Controlled Trial of an App-Based Serious Gaming Approach *JMIR Serious Games* *8*,e14282. DOI: 10.2196/14282
- Gabriel, M.M., Kircheis, G., Hardtke, S., Markwardt, D., Buggisch, P., Mix, H., Grüngreiff, K., Welzel, T.M., Kalsch, J., Hartmann, H., Gerbes, A.L., Karpowitz, M.V., Seeliger, B., Wedemeyer, H., Weissenborn, K., HepNet HE-Register Study Group. (2021). Risk of recurrent hepatic encephalopathy in patients with liver cirrhosis: a German registry study. *Eur J Gastroenterol Hepatol* *33*,1185-1193. DOI: 10.1097/MEG.0000000000001822
- Grosshennig, A., Koch, A. (2020). COVID-19 hits a trial: Arguments against hastily deviating from the plan *Contemp Clin Trials* *98*,106155. DOI: 10.1016/j.cct.2020.106155
- Grünwald, V., Karch, A., Schuler, M., Schöffski, P., Kopp, H.G., Bauer, S., Kasper, B., Lindner, L.H., Chemnitz, J.M., Crysandt, M., Stein, A., Steffen, B., Richter, S., Egerer, G., Ivanyi, P., Zimmermann, S., Liu, X., Kunitz, A. (2020). Randomized Comparison of Pazopanib and Doxorubicin as First-Line Treatment in Patients With Metastatic Soft Tissue Sarcoma Age 60 Years or Older: Results of a German Intergroup Study *J Clin Oncol* *38*,3555-3564. DOI: 10.1200/JCO.20.00714
- Heinemann, N.C., Tischer-Zimmermann, S., Wittke, T.C., Eigendorf, J., Kerling, A., Framke, T., Melk, A., Heuft, H.G., Blasczyk, R., Maecker-Kolhoff, B., Eiz-Vesper, B. (2020). High-intensity interval training in allogeneic adoptive T-cell immunotherapy - a big HIT? *J Transl Med* *18*,148. DOI: 10.1186/s12967-020-02301-3
- Holstein, K., Liu, X., Smith, A., Knobl, P., Klamroth, R., Geisen, U., Eichler, H., Miesbach, W., Tiede, A. (2020). Bleeding and response to hemostatic therapy in acquired hemophilia A: results from the GTH-AH 01/2010 study *Blood* *136*,279-287. DOI: 10.1182/blood.2019003639
- Horstmann, H., Medico, P., Lasch, F., Krutsch, W., Weber-Spickschen, T.S. (2020). Simplified Measurement of Maximum Strength After Knee Surgery: Application-Based Knee-Training Device Compared to Isokinetic Testing *Open Access J Sports Med* *11*,43-49. DOI: 10.2147/OAJSM.S214598
- Ius, F., Salman, J., Knoefel, A.K., Sommer, W., Nakagiri, T., Verboom, M., Siemeni, T., Poyanmehr, R., Bobylev, D., Kuehn, C., Avsar, M., Erdfelder, C., Hallensleben, M., Boethig, D., Hecker, H., Schwerek, N., Mueller, C., Welte, T., Falk, C., Preissler, G., Haverich, A., Tudorache, I., Warnecke, G. (2020). Increased frequency of CD4(+) CD25(high) CD127(low) T cells early after lung transplant is associated with improved graft survival - a retrospective study *Transpl Int* *33*,503-516. DOI: 10.1111/tri.13568
- Jakubovski, E., Pisarenko, A., Fremer, C., Haas, M., May, M., Schumacher, C., Schindler, C., Häckl, S., Aguirre Davila, L., Koch, A., Brunauer, A., Cimpianu, C.L., Lutz, B., Bindila, L., Müller-Vahl, K. (2020). The CANNA-TICS Study Protocol: A Randomized Multi-Center Double-Blind Placebo Controlled Trial to Demonstrate the Efficacy and Safety of Nabiximols in the Treatment of Adults With Chronic Tic Disorders. *Front Psychiatry* *11*,575826. DOI: 10.3389/fpsy.2020.575826
- Konrad, S., Framke, T., Kludt, E., Büchner, A., Lenarz, T., Paasche, G. (2020). Do Impedance Changes Correlate With a Delayed Hearing Loss After Hybrid L24 Implantation? *Ear Hear* *42*,163-172. DOI: 10.1097/AUD.0000000000000914
- Lasch, F., Karch, A., Koch, A., Derlin, T., Voskrebenez, A., Alsady, T.M., Hoepfer, M.M., Gall, H., Roller, F., Harth, S., Steiner, D., Krombach, G., Ghofrani, H.A., Rengier, F., Heussel, C.P., Grünig, E., Beitzke, D., Hacker, M., Lang, I.M., Behr, J., Bartenstein, P., Dinkel, J., Schmidt, K.H., Kreitner, K.F., Frauenfelder, T., Ulrich, S., Hamer, O.W., Pfeifer, M., Johns, C.S., Kiely, D.G., Swift, A.J., Wild, J., Vogel-Claussen, J. (2020). Comparison of MRI and VQ-SPECT as a Screening Test for Patients With Suspected CTEPH: CHANGE-MRI Study Design and Rationale *Front Cardiovasc Med* *7*,51. DOI: 10.3389/fcvm.2020.00051
- Pellicer, A., Fernandez, R., Jullien, V., Gleeson, C., Bravo, M.C., Ortego, P.L., Sanchez, L., Ybarra, M., Rojas-Anaya, H., Cabanas, F., Koch, A., Smith, A., Rabe, H., Neocirculation Consortium. (2021). Pharmacokinetic study (phase I-II) of a new dobutamine formulation in preterm infants immediately after birth *Pediatr Res* *89*,981-986. DOI: 10.1038/s41390-020-1009-0
- Scheper, V., Schmidtheisler, M., Lasch, F., von der Leyen, H., Koch, A., Schwieger, J., Büchner, A., Lesinski-Schiedat, A., Lenarz, T. (2020). Randomized placebo-controlled clinical trial investigating the effect of antioxidants and a vasodilator on overall safety and residual hearing preservation in cochlear implant patients *Trials* *21*,643. DOI: 10.1186/s13063-020-04522-9
- Solbach, P., Chhatwal, P., Woltemate, S., Tacconelli, E., Buhl, M., Autenrieth, I.B., Vehreschild, M.J.G.T., Jazmati, N., Gerhard, M., Stein-Thoeringer, C.K., Rupp, J., Ulm, K., Ott, A., Lasch, F., Koch, A., Manns, M.P., Suerbaum, S., Bachmann, O. (2021). Microbiota-associated

risk factors for *C. difficile* acquisition in hospitalized patients: A prospective, multicentric study. *Clin Infect Dis* 73,e2625-e2634. DOI: 10.1093/cid/ciaa871

Tenhunen, O., Lasch, F., Schiel, A., Turpeinen, M. (2020). Single-Arm Clinical Trials as Pivotal Evidence for Cancer Drug Approval: A Retrospective Cohort Study of Centralized European Marketing Authorizations Between 2010 and 2019 *Clin Pharmacol Ther* 108,653-660. DOI: 10.1002/cpt.1965

Letter

Aguirre Davila, L., Koch, A., Lasch, F. (2020). Randomization versus Real-World Evidence. *N Engl J Med* 383,e21. DOI: 10.1056/NEJMc2020020

Cornberg, M., Pischke, S., Müller, T., Behrendt, P., Piecha, F., Benckert, J., Todt, D., Steinmann, E., Papkalla, A., von Karpowitz, M., Koch, A., Lohse, A., Hardtke, S., Manns, M.P., Wedemeyer, H. (2020). Sofosbuvir monotherapy fails to achieve HEV RNA elimination in patients with chronic hepatitis E - The HepNet SofE pilot study *J Hepatol* 73,696-699. DOI: 10.1016/j.jhep.2020.05.020

Buchbeiträge, Monografien

Großhennig, A., Framke, T. (2021). Biostatistik trifft auf OMICS (Kapitel 6). In: Zeig mir Health Data Science! Ideen und Material für guten Biometrie-Unterricht mit datenwissenschaftlichem Fokus, Herrmann C., eds. (Berlin, Heidelberg: Springer) pp. 65-81

Bachelorarbeiten

Saydal, H. (2020). Optimierung und Validierung eines SAS® Makros für die standardisierte Auswertung klinischer Studiendaten. Bachelorarbeit, Medizinische Hochschule Hannover, 2020

Peter L.Reichertz Institut für Medizinische Informatik der TU Braunschweig und der MHH – 8420

Originalpublikationen

Baier, C., Albrecht, U.V., Ebadi, E., Vonberg, R.P., Schilke, R. (2020). Knowledge about hand hygiene in the Generation Z: A questionnaire-based survey among dental students, trainee nurses and medical technical assistants in training. *Am J Infect Control* 48,708-712. DOI: 10.1016/j.ajic.2020.02.002

Clausen, T., Jura, T., Jähne-Raden, N., Wolf, M.C., Wolf, L., Kulau, U. (2021). A Precise, Parallel and Scalable Measurement System for Ballistocardiographic Research. *Smart Health* 19,100169. DOI: 10.1016/j.smhl.2020.100169

Diekmann, R., Hellmers, S., Elgert, L., Fudickar, S., Heinks, A., Lau, S., Bauer, J.M., Zieschang, T., Hein, A. (2021). Minimizing comprehensive geriatric assessment to identify deterioration of physical performance in a healthy community-dwelling older cohort: longitudinal data of the AEQUIPA Versa study *Aging Clin Exp Res* 33,563-572. DOI: 10.1007/s40520-020-01562-8

Dittrich, F., Albrecht, U.V., von Jan, U., Malinka, C., Ansorg, J., Jung, J., AG Digitalisierung, Back, D.A. (2021). Das Digitale-Versorgung-Gesetz - eine Zäsur der deutschen Digitalisierungsstrategie? *Z Orthop Unfall* 159,259-265. DOI: 10.1055/a-1141-4274

Franz, M., Gary, A., Jung, D., Wolff, J. (2020). Störungsbezogene Fallgruppen für eine bedarfsgerechte Krankenhausversorgung Nervenarzt 91,814-821. DOI: 10.1007/s00115-019-00853-4

Hefner, G., Hahn, M., Toto, S., Hiemke, C., Roll, S.C., Wolff, J., Klimke, A. (2020). Potentially inappropriate medication in older psychiatric patients *Eur J Clin Pharmacol* DOI: 10.1007/s00228-020-03012-w

Hefner, G., Wolff, J., Hahn, M., Hiemke, C., Toto, S., Roll, S.C., Messer, T., Klimke, A. (2020). Prevalence and sort of pharmacokinetic drug-drug interactions in hospitalized psychiatric patients *J Neural Transm (Vienna)* 127,1185-1198. DOI: 10.1007/s00702-020-02214-x

Hellmers, S., Peng, L., Lau, S., Diekmann, R., Elgert, L., Bauer, J., Hein, A., Elgert, L., Fudickar, S. (2020). Activity Scores of Older Adults based on Inertial Measurement Unit Data in Everyday Life. In: *BIOSTEC 2020 : proceedings of the 13th International Joint Conference on Biomedical Engineering Systems and Technologies : Valletta, Malta, February 24-26, 2020*, sponsored by: INSTICC - Institute for Systems and Technologies of Information, Control and Communication, eds. ([Sétubal]: SCITEPRESS - Science and Technology Publications, Lda.) pp. 579-580

- Jähne-Raden, N., Gütschleg, H., Marschollek, M. (2020). Trodden Lanes or New Paths: Ballisto- and Seismocardiography Till Now Stud Health Technol Inform *270*,479-483. DOI: 10.3233/SHTI200206
- Jähne-Raden, N., Wolf, M.C., Sigg, S., Kulau, U. (2020). Development of a Presentation Interface for Seismo- and Ballistocardiographic Data Stud Health Technol Inform *272*,103-106. DOI: 10.3233/SHTI200504
- Kaier, K., Heister, T., Wolff, J., Wolkewitz, M. (2020). Mechanical ventilation and the daily cost of ICU care BMC Health Serv Res *20*,267. DOI: 10.1186/s12913-020-05133-5
- Koop, C.F.A., Marschollek, M., Schmiedl, A., Proskynitopoulos, P.J., Behrends, M. (2021). Does an Audiovisual Dissection Manual Improve Medical Students' Learning in the Gross Anatomy Dissection Course? Anat Sci Educ *14*,615-628. DOI: 10.1002/ase.2012
- Saalfeld, B., Elgert, L., Steiner, B., Wolf, K.H. (2020). Transfer Physical Therapists Knowledge: A Pre-Test to Minimize the Complexity of Physical Therapists' Quality Assessment of Shoulder Exercise Performance Stud Health Technol Inform *272*,391-394. DOI: 10.3233/SHTI200577
- Sebastião, M., Hechtel, N., Krückeberg, J. (2021). „In den Müll?!“ – Ursachenforschung zur Nicht-Nutzung technischer Innovationen in der stationären Pflege. Gesundheitswesen *83*,619-623. DOI: 10.1055/a-1138-0528
- Steiner, B., Elgert, L., Haux, R., Wolf, K.H. (2020). AGT-Reha-WK study: protocol for a non-inferiority trial comparing the efficacy and costs of home-based telerehabilitation for shoulder diseases with medical exercise therapy BMJ Open *10*,e036881. DOI: 10.1136/bmjopen-2020-036881
- Steiner, B., Elgert, L., Saalfeld, B., Schwartze, J., Borrmann, H.P., Kobelt-Pönicke, A., Figlewicz, A., Kasproski, D., Thiel, M., Kreikebohm, R., Haux, R., Wolf, K.H. (2020). Health-Enabling Technologies for Telerehabilitation of the Shoulder: A Feasibility and User Acceptance Study Methods Inf Med *59*,e90-e99. DOI: 10.1055/s-0040-1713685
- Steiner, B., Elgert, L., Saalfeld, B., Wolf, K.H. (2020). Gamification in Rehabilitation of Patients With Musculoskeletal Diseases of the Shoulder: Scoping Review JMIR Serious Games *8*,e19914. DOI: 10.2196/19914
- von der Warth, R., Hehn, P., Wolff, J., Kaier, K. (2020). Hospital costs associated with post-traumatic stress disorder in somatic patients: a retrospective study Health Econ Rev *10*,23. DOI: 10.1186/s13561-020-00281-0
- von Jan, U., Jungnickel, T., Engeli, S., Albrecht, U.V. (2020). Potenzielle Stigmatisierung von Menschen mit Übergewicht durch Gesundheits-Apps aus dem Formenkreis ‚Adipositas‘. Adipositas *14*,20-28. DOI: 10.1055/a-1045-1497
- Witte, M.L., Behrends, M., Benning, N.H., Hoffmann, I., HiGHmededucation Consortium, Bott, O.J. (2020). The HiGHmed Didactical Framework for Online Learning Modules on Medical Informatics: First Experiences. Stud Health Technol Inform *272*,163-166. DOI: 10.3233/SHTI200519
- Wolff, D., Nee, S., Hickey, N.S., Marschollek, M. (2021). Risk factors for Covid-19 severity and fatality: a structured literature review Infection *49*,15-28. DOI: 10.1007/s15010-020-01509-1
- Wolff, J., Gary, A., Jung, D., Normann, C., Kaier, K., Binder, H., Domschke, K., Klimke, A., Franz, M. (2020). Predicting patient outcomes in psychiatric hospitals with routine data: a machine learning approach BMC Med Inform Decis Mak *20*,21. DOI: 10.1186/s12911-020-1042-2
- Wolff, J., Heister, T., Normann, C., Kaier, K. (2018). Hospital costs associated with psychiatric comorbidities: a retrospective study BMC Health Serv Res *18*,67. DOI: 10.1186/s12913-018-2892-5
- Wulff, A., Mast, M., Hassler, M., Montag, S., Marschollek, M., Jack, T. (2020). Designing an openEHR-Based Pipeline for Extracting and Standardizing Unstructured Clinical Data Using Natural Language Processing Methods Inf Med *59*,e64-e78. DOI: 10.1055/s-0040-1716403

Buchbeiträge, Monografien

- Albrecht, U.V. (2020). Clinical trial app regulations. In: Innovation in Clinical Trial Methodologies Lessons Learned During the Corona Pandemic, Schueler P., eds. (San Diego: Elsevier Science & Technology) pp. 109-111
- Albrecht, U.V. (2020). Gesundheitsdaten - zwischen professionellem Austausch und Piraterie. In: Digitalisierung. Privatheit und öffentlicher Raum, Akademie der Wissenschaften zu Göttingen, eds. (Göttingen: Universitätsverlag Göttingen) pp. 25-40

Albrecht, U.V., von Jan, U. (2020). 15 Gesundheits-Apps – mobil, komfortabel, frei und ethisch doch verbindlich. In: Ethische Perspektiven auf Biomedizinische Technologie, Manzeschke A., eds. (Berlin, Boston: De Gruyter) pp. 143-158

Hsueh, P.S., Hu, X., Cheung, Y.K., Wolff, D., Marschollek, M., Rogers, J. (2020). Smart Learning Using Big and Small Data for Mobile and IOT e-Health. In: Intelligent Internet of Things: From Device to Fog and Cloud, Firouzi F., eds. (Cham: Springer International Publishing) pp. 607-636

Steffens, S., Paulmann, V., Foadi, N., Koop, C., Mikuteit, M., Behrends, M. (2020). Das Projekt DigiWissMed - Kompetenzen zu Digitalisierung und Wissenschaftlichkeit in der Medizin. In: Digitalisierung, Medizin, Geschlecht : interdisziplinäre Zugänge, Miemietz B., eds. (Opladen, Berlin, Toronto: Verlag Barbara Budrich) pp. 161-168

Abstracts

Krückeberg, J., Warneke, S., Small, N., Kleinsorgen, C., Schaper, E., Stiller, G. (2020). Erwartungen von Teilnehmerinnen und Teilnehmern eines interdisziplinären Blended Learning-Tutorienprogramms als Grundlage zur inhaltlichen Ausgestaltung. In: Jahrestagung der Gesellschaft für Medizinische Ausbildung (GMA) ; Zürich, 09.-12.09.2020, German Medical Science, eds. (Düsseldorf: German Medical Science GMS Publishing House) pp. DocV-031

Tute, E., Gietzelt, M. (2020). Using structured ETL-information for validating data integration. GMDS & CEN-IBS 2020, 6.-11. September 2020, Berlin.

sonstiges

Albrecht, U.V. (2020). Digitalisierungsgesetze: Überlastungsangriff (Denial of Service)? Dtsch Arztebl International A-534.

Albrecht UV, Köhler F, Fölsch UR and Ertl G. Stellungnahme der Deutschen Gesellschaft für Innere Medizin e.V. zum Referentenentwurf zur "Verordnung über das Verfahren und die Anforderungen der Prüfung der Erstattungsfähigkeit digitaler Gesundheitsanwendungen in der gesetzlichen Krankenversicherung" (Digitale-Gesundheitsanwendungen-Verordnung - DiGAV) des Bundesministeriums für Gesundheit. <https://tinyurl.com/yx9jqzqc>

Behrends, M., Hoffmann, I., Marschollek, M., HiGHmededucation Consortium. (2020). Teamwork, communication and exchange despite Covid-19 – experiences from a digital elective in human medicine studies as part of the HiGHmed project. GMS J Med Educ 37,Doc86. DOI: 10.3205/zma001379

Foadi, N., Koop, C., Behrends, M. (2020). Medizinische Ausbildung: Welche digitalen Kompetenzen braucht der Arzt? Dtsch Arztebl International 117,A596-A600.

Haabrandt, B., Wulff, A., Baier, C., Schlüter, D., Biermann, P., von Landesberger, T., HiGHmed Infection Control Study Group, Scheithauer, S. (2020). Mit KIS-Daten gegen COVID-19. E-HEALTH-COM 20,22-25.

Hytönen, R., Tshala, A., Schreier, J., Holopainen, M., Forsman, A., Oksanen, M., Findling, R., Nguyen, L.N., Jähne-Raden, N., Sigg, S. (2020). Analysing Ballistocardiography for Pervasive Healthcare. 16th International Conference on Mobility, Sensing and Networking (MSN 2020), 17.-19. Dezember 2020, Tokyo (Japan).

Jähne-Raden, N., Bavendiek, U., Gütschleg, H., Kulau, U., Sigg, S., Wolf, M., Zeppernick, T., Marschollek, M. (2020). A Structured Measurement of Highly Synchronous Real-Time Ballistocardiography Signal Data of Heart Failure Patients Stud Health Technol Inform 270,808-812. DOI: 10.3233/SHTI200273

Jähne-Raden, N., Gütschleg, H., Wolf, M.C., Sigg, S., Kulau, U. (2020). Seismocardiography on Infants and Kids. Computing in Cardiology 1-4. DOI: 10.22489/CinC.2020.004

Nothacker M, Kopp I, Albrecht UV, Wagner W and Kreienberg R. Stellungnahme der AWMF zum Referentenentwurf der Verordnung über das Verfahren und die Anforderungen der Prüfung der Erstattungsfähigkeit digitaler Gesundheitsanwendungen in der gesetzlichen Krankenversicherung (DiGAV). <https://www.awmf.org/die-awmf/awmf-aktuell/detail/news/stellungnahme-der-awmf-zur-digitale-gesundheitsanwendungen-verordnung.html>

Albrecht, U.V. (2020). Selbsteinschätzung der Wichtigkeit von Qualitätsprinzipien und Recherchehilfe zum Auffinden relevanter Information zu Gesundheits-Apps als Grundlage für eine fundierte Nutzungsentscheidung (Hannover: MHH).

Rigamonti, L., Albrecht, U.V., Lutter, C., Tempel, M., Wolfarth, B., Back, D.A., Working, G.D. (2020). Potentials of Digitalization in Sports Medicine: A Narrative Review. Curr Sports Med Rep 19,157-163. DOI: 10.1249/JSR.0000000000000704

Saalfeld, B. (2020). Smart (Healthy?) Home. Frauen machen Informatik 44,12-13.

Sebastião, M., Pauls, A., Illiger, K., Zokoll, M., Gietzelt, M., Behrends, M. (2020).Partizipation als Herausforderung bei Forschungsprojekten zu assistierenden Gesundheitstechnologien - Ergebnisse eines interdisziplinären Workshops. *Pflegewissenschaft* 22,92-97. DOI: 10.3936/1723

Wolf, M., Jähne-Raden, N., Kulau, U. (2020). Big-Data-Handling bei nicht-invasiver hochpräziser Beschleunigungssensor-Herzfunktionsdiagnostik. 65. Jahrestagung der Deutschen Gesellschaft für Medizinische Informatik, Biometrie und Epidemiologie e. V. (GMDS) 2020 & CEN-IBS 2020, Online Event, 06.-11.September 2020.

Wulff, A., Ballout, S., Gietzelt, M., Marschollek, M., Scheithauer, S., Infection Control Study Group. (2020). A Report on Data Modelling for Infection Control in HIGHmed. Conference on Digital ID2020 - Digitalization and Infectious Diseases: Improving patient outcome in the age of big data, 20.-21.01.2020, Basel, Switzerland.

Promotionen

Koop, C. (2019). What advantages does an audiovisual dissection manual compared to a printed manual provide for medical students in the University gross anatomy dissection course? Dissertation, Medizinische Hochschule Hannover, 2020

Lammel-Polchau, C. (2018). Kontinuierliche automatische Intra-Breath-Analyse von Spiroergometriedaten Dissertation, Medizinische Hochschule Hannover, 2020

Bachelorarbeiten

Cuvalo, I. (2020). Analyse des Nutzungsverhaltens von pflegenden Angehörigen bei der Benutzung der MoCaB App (AT). Bachelorarbeit, Medizinische Hochschule Hannover, 2020

Effner, B. (2020). Entwicklung eines Werkzeuges zur Definition physiotherapeutischer Übungen mit Methoden der virtuellen Realität. Bachelorarbeit, Medizinische Hochschule Hannover, 2020

Integriertes Forschungs- und Behandlungszentrum Transplantation

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Originalpublikationen

Bitar, M., Boettcher, M., Boldt, A., Hauck, F., Köhl, U., Liebert, U.G., Magg, T., Schulz, M.S., Sack, U. (2021).Flow cytometric measurement of STAT5 phosphorylation in cytomegalovirus-stimulated T cells *Cytometry A* 99,774-783. DOI: 10.1002/cyto.a.24286

Heilig, C.E., Badoglio, M., Labopin, M., Fröhling, S., Secondino, S., Heinz, J., Nicolas-Virelizier, E., Blaise, D., Korenbaum, C., Santoro, A., Verbeek, M., Krüger, W., Siena, S., Passweg, J.R., Di Nicola, M., Rifon, J., Dreger, P., Koehl, U., Chabannon, C., Pedrazzoli, P., European Society for Blood and Marrow Transplantation (EBMT), Cellular Therapy & Immunobiology Working Party. (2020).Haematopoietic stem cell transplantation in adult soft-tissue sarcoma: an analysis from the European Society for Blood and Marrow Transplantation ESMO Open 5:DOI: 10.1136/esmoopen-2020-000860

Müller, S., Bexte, T., Gebel, V., Kalensee, F., Stolzenberg, E., Hartmann, J., Koehl, U., Schambach, A., Wels, W.S., Modlich, U., Ullrich, E. (2020).High Cytotoxic Efficiency of Lentivirally and Alpharetrovirally Engineered CD19-Specific Chimeric Antigen Receptor Natural Killer Cells Against Acute Lymphoblastic Leukemia *Front Immunol* 10,3123. DOI: 10.3389/fimmu.2019.03123

Nasr, W., Fabian, C., Arnold, K., Köhl, U., Sack, U., Weiss, R., Cross, M., Hauschildt, S. (2020).Nicotinamide Inhibits Self-renewal and Induces Granulocyte Differentiation of Multipotent Progenitor Cells *Stem Cell Rev Rep* 16,1335-1342. DOI: 10.1007/s12015-020-10019-4

Warnecke, A., Harre, J., Staecker, H., Prenzler, N., Strunk, D., Couillard-Despres, S., Romanelli, P., Hollerweger, J., Lassacher, T., Auer, D., Pachler, K., Wietzorrek, G., Köhl, U., Lenarz, T., Schallmoser, K., Laner-Plamberger, S., Falk, C.S., Rohde, E., Gimona, M. (2020).Extracellular vesicles from human multipotent stromal cells protect against hearing loss after noise trauma in vivo *Clin Transl Med* 10,e262. DOI: 10.1002/ctm2.262

Winkel, A., Jaimés, Y., Melzer, C., Dillschneider, P., Hartwig, H., Stiesch, M., von der Ohe, J., Strauss, S., Vogt, P.M., Hamm, A., Burmeister, L., Roger, Y., Elger, K., Floerkemeier, T., Weissinger, E.M., Pogozhykh, O., Müller, T., Selich, A., Rothe, M., Petri, S., Köhl, U., Hass, R., Hoffmann, A. (2020).Cell culture media notably influence properties of human mesenchymal stroma/stem-like cells from different tissues. *Cytotherapy* 22,653-668. DOI: 10.1016/j.jcyt.2020.07.005

Übersichtsarbeiten

Chauhan, S.K.S., Koehl, U., Kloess, S. (2020). Harnessing NK Cell Checkpoint-Modulating Immunotherapies Cancers (Basel) *12*, DOI: 10.3390/cancers12071807

Klöss, S., Dehmel, S., Braun, A., Parnham, M.J., Köhl, U., Schiffmann, S. (2020). From Cancer to Immune-Mediated Diseases and Tolerance Induction: Lessons Learned From Immune Oncology and Classical Anti-cancer Treatment *Front Immunol* *11*, 1423. DOI: 10.3389/fimmu.2020.01423

Koehl, U., Augustin, J., Quaiser, A., Blaudszun, A., Vucinic, V., Platzbecker, U., Aleksandrova, K., Kebbel, K., Schmiedeknecht, G., Fricke, S. (2020). Biotechnologische Innovationen im Bereich zellulärer Therapien. *Forum* *35*, 316-322. DOI: 10.1007/s12312-020-00811-1

Quaiser, A., Arseniev, L., Koehl, U. (2020). CAR-NK-Zellen im Einsatz der Immunonkologie. *Trillium Immunologie* *4*, DOI: 10.47184/ti.2020.04.01

Editorials

Sack, U., Tarnok, A., Preijers, F., Köhl, U., Na, I.K. (2020). Editorial: Modulation of Human Immune Parameters by Anticancer Therapies *Front Immunol* *11*, DOI: 10.3389/fimmu.2020.621556

Institut für Transplantationsimmunologie – 8889

Originalpublikationen

Abdissa, K., Ruangkiattikul, N., Ahrend, W., Nerlich, A., Beineke, A., Laarmann, K., Janze, N., Lobermeyer, U., Suwandi, A., Falk, C., Schleicher, U., Weiss, S., Bogdan, C., Goethe, R. (2020). Relevance of inducible nitric oxide synthase for immune control of *Mycobacterium avium* subspecies *paratuberculosis* infection in mice. *Virulence* *11*, 465-481. DOI: 10.1080/21505594.2020.1763055

Bonaguro, L., Köhne, M., Schmidleithner, L., Schulte-Schrepping, J., Warnat-Herresthal, S., Horne, A., Kern, P., Günther, P., Ter Horst, R., Jaeger, M., Rahmouni, S., Georges, M., Falk, C.S., Li, Y., Mass, E., Beyer, M., Joosten, L.A.B., Netea, M.G., Ulas, T., Schultze, J.L., Aschenbrenner, A.C. (2020). CRELD1 modulates homeostasis of the immune system in mice and humans *Nat Immunol* *21*, 1517-1527. DOI: 10.1038/s41590-020-00811-2

Bonifacius, A., Goldmann, O., Floess, S., Holtfreter, S., Robert, P.A., Nordengrün, M., Kruse, F., Lochner, M., Falk, C.S., Schmitz, I., Bröker, B.M., Medina, E., Huehn, J. (2020). *Staphylococcus aureus* Alpha-Toxin Limits Type 1 While Fostering Type 3 Immune Responses *Front Immunol* *11*, 1579. DOI: 10.3389/fimmu.2020.01579

Felgner, S., Spöring, I., Pawar, V., Kocijancic, D., Preusse, M., Falk, C., Rohde, M., Häussler, S., Weiss, S., Erhardt, M. (2020). The immunogenic potential of bacterial flagella for Salmonella-mediated tumor therapy *Int J Cancer* *147*, 448-460. DOI: 10.1002/ijc.32807

Hauser, I.A., Marx, S., Sommerer, C., Suwelack, B., Dragun, D., Witzke, O., Lehner, F., Schiedel, C., Porstner, M., Thaiss, F., Neudörfl, C., Falk, C.S., Nashan, B., Sester, M. (2021). Effect of everolimus-based drug regimens on CMV-specific T-cell functionality after renal transplantation: 12-month ATHENA subcohort-study results *Eur J Immunol* *51*, 943-955. DOI: 10.1002/eji.202048855

Ingendoh-Tsakmakidis, A., Eberhard, J., Falk, C.S., Stiesch, M., Winkel, A. (2020). In Vitro Effects of *Streptococcus oralis* Biofilm on Peri-Implant Soft Tissue Cells *Cells* *9*, 1226. DOI: 10.3390/cells9051226

Iske, J., Seyda, M., Heinbokel, T., Maenosono, R., Minami, K., Nian, Y., Quante, M., Falk, C.S., Azuma, H., Martin, F., Passos, J.F., Niemann, C.U., Tchkonja, T., Kirkland, J.L., Elkhali, A., Tullius, S.G. (2020). Senolytics prevent mt-DNA-induced inflammation and promote the survival of aged organs following transplantation *Nat Commun* *11*, 4289. DOI: 10.1038/s41467-020-18039-x

Ius, F., Müller, C., Sommer, W., Verboom, M., Hallensleben, M., Salman, J., Siemeni, T., Kühn, C., Avsar, M., Bobylev, D., Poyanmehr, R., Erdfelder, C., Böthig, D., Carlens, J., Bayir, L., Hansen, G., Blasczyk, R., Falk, C., Tecklenburg, A., Haverich, A., Tudorache, I., Schwerk, N., Warnecke, G. (2020). Six-year experience with treatment of early donor-specific anti-HLA antibodies in pediatric lung transplantation using a human immunoglobulin-based protocol *Pediatr Pulmonol* *55*, 754-764. DOI: 10.1002/ppul.24639

Ius, F., Salman, J., Knoefel, A.K., Sommer, W., Nakagiri, T., Verboom, M., Siemeni, T., Poyanmehr, R., Bobylev, D., Kuehn, C., Avsar, M., Erdfelder, C., Hallensleben, M., Boethig, D., Hecker, H., Schwerk, N., Mueller, C., Welte, T., Falk, C., Preissler, G., Haverich, A., Tudorache, I., Warnecke, G. (2020). Increased frequency of CD4(+) CD25(high) CD127(low) T cells early after lung transplant is associated with improved graft survival - a retrospective study *Transpl Int* *33*, 503-516. DOI: 10.1111/tri.13568

Kühne, J.F., Neudörfel, C., Beushausen, K., Keil, J., Malysheva, S., Wandrer, F., Haller, H., Messerle, M., Blume, C., Neuenhahn, M., Schlott, F., Hammerschmidt, W., Zeidler, R., Falk, C.S. (2020). Differential effects of Belatacept on virus-specific memory versus de novo allo-specific T cell responses of kidney transplant recipients and healthy donors. *Transpl Immunol* 61,101291. DOI: 10.1016/j.trim.2020.101291

Mikolaj, C., Kommerein, N., Ingendoh-Tsakmakidis, A., Winkel, A., Falk, C.S., Stiesch, M. (2020). Early host-microbe interaction in a peri-implant oral mucosa-biofilm model *Cell Microbiol* 22,e13209. DOI: 10.1111/cmi.13209

Niehaus, C.E., Strunz, B., Cornillet, M., Falk, C.S., Schnieders, A., Maasoumy, B., Hardtke, S., Manns, M.P., Rm Kraft, A., Björkström, N.K., Cornberg, M. (2020). MAIT cells are enriched and highly functional in ascites of patients with decompensated liver cirrhosis *Hepatology* 72,1378-1393. DOI: 10.1002/hep.31153

Nikolouli, E., Elfaki, Y., Herppich, S., Schelmbauer, C., Delacher, M., Falk, C., Mufazalov, I.A., Waisman, A., Feuerer, M., Huehn, J. (2021). Recirculating IL-1R2(+) Tregs fine-tune intrathymic Treg development under inflammatory conditions *Cell Mol Immunol* 18,182-193. DOI: 10.1038/s41423-019-0352-8

Ricke-Hoch, M., Hoes, M.F., Pfeffer, T.J., Schlothauer, S., Nonhoff, J., Haidari, S., Bomer, N., Scherr, M., Stapel, B., Stelling, E., Kiyan, Y., Falk, C., Haghikia, A., Binah, O., Arany, Z., Thum, T., Bauersachs, J., van der Meer, P., Hilfiker-Kleiner, D. (2020). In peripartum cardiomyopathy plasminogen activator inhibitor-1 is a potential new biomarker with controversial roles *Cardiovasc Res* 116,1875-1886. DOI: 10.1093/cvr/cvz300

Schimmel, K., Stojanovic, S.D., Huang, C.K., Jung, M., Meyer, M.H., Xiao, K., Grote-Levi, L., Bär, C., Pfanne, A., Mitzka, S., Just, A., Geffers, R., Bock, K., Kenneweg, F., Kleemiss, F., Falk, C.S., Fiedler, J., Thum, T. (2020). Combined high-throughput library screening and next generation RNA sequencing uncover microRNAs controlling human cardiac fibroblast biology *J Mol Cell Cardiol* 150,91-100. DOI: 10.1016/j.yjmcc.2020.10.008

Sens, J., Hoffmann, D., Lange, L., Vollmer Barbosa, P., Morgan, M.A., Falk, C., Schambach, A. (2021). Knock-out iPSCs for disease and therapy modeling of IL-10 associated primary immunodeficiencies. *Hum Gene Ther* 32,77-95. DOI: 10.1089/hum.2020.235

Stahl, K., Schmidt, B.M.W., Hoepfer, M.M., Skripuletz, T., Möhn, N., Beutel, G., Eder, M., Welte, T., Ganser, A., Falk, C.S., Koenecke, C., David, S. (2020). Extracorporeal cytokine removal in severe CAR-T cell associated cytokine release syndrome *J Crit Care* 57,124-129. DOI: 10.1016/j.jcrc.2020.02.010

Stauss, R.D., Grosse, G.M., Neubert, L., Falk, C.S., Jonigk, D., Kühnel, M.P., Gabriel, M.M., Schuppner, R., Lichtinghagen, R., Wilhelmi, M., Weissenborn, K., Schimpf, C. (2020). Distinct systemic cytokine networks in symptomatic and asymptomatic carotid stenosis. *Sci Rep* 10,21963. DOI: 10.1038/s41598-020-78941-8

Sungnak, W., Huang, N., Becavin, C., Berg, M., Queen, R., Litvinukova, M., Talavera-Lopez, C., Maatz, H., Reichart, D., Sampaziotis, F., Worlock, K.B., Yoshida, M., Barnes, J.L., HCA Lung Biological Network. (2020). SARS-CoV-2 entry factors are highly expressed in nasal epithelial cells together with innate immune genes *Nat Med* 26,681-687. DOI: 10.1038/s41591-020-0868-6

Tucker, N.R., Chaffin, M., Bedi, K.C., Jr, Papangeli, I., Akkad, A.D., Arduini, A., Hayat, S., Eraslan, G., Muus, C., Bhattacharyya, R.P., Stegmann, C.M., Human Cell Atlas Lung Biological Network, Margulies, K.B., Ellinor, P.T., Human Cell Atlas Lung Biological Network Consortium Members. (2020). Myocyte-Specific Upregulation of ACE2 in Cardiovascular Disease: Implications for SARS-CoV-2-Mediated Myocarditis *Circulation* 142,708-710. DOI: 10.1161/CIRCULATIONAHA.120.047911

Warnecke, A., Harre, J., Staecker, H., Prenzler, N., Strunk, D., Couillard-Despres, S., Romanelli, P., Hollerweger, J., Lassacher, T., Auer, D., Pachler, K., Wietzorrek, G., Köhl, U., Lenarz, T., Schallmoser, K., Laner-Plamberger, S., Falk, C.S., Rohde, E., Gimona, M. (2020). Extracellular vesicles from human multipotent stromal cells protect against hearing loss after noise trauma in vivo *Clin Transl Med* 10,e262. DOI: 10.1002/ctm2.262

Ziegler, C.G.K., Allon, S.J., Nyquist, S.K., Mbano, I.M., Miao, V.N., Tzouanas, C.N., Cao, Y., Yousif, A.S., Bals, J., Hauser, B.M., Feldman, J., Muus, C., Wadsworth, M.H., 2nd, Kazer, S.W., Hughes, T.K., Doran, B., Gatter, G.J., Vukovic, M., Taliaferro, F., Mead, B.E., Guo, Z., Wang, J.P., Gras, D., Plaisant, M., Ansari, M., Angelidis, I., Adler, H., Sucre, J.M.S., Taylor, C.J., Lin, B., Waghray, A., Mitsialis, V., Dwyer, D.F., Buchheit, K.M., Boyce, J.A., Barrett, N.A., Laidlaw, T.M., Carroll, S.L., Colonna, L., Tkachev, V., Peterson, C.W., Yu, A., Zheng, H.B., Gideon, H.P., Winchell, C.G., Lin, P.L., Bingle, C.D., Snapper, S.B., Kropski, J.A., Theis, F.J., Schiller, H.B., Zaragosi, L.E., Barbry, P., Leslie, A., Kiem, H.P., Flynn, J.L., Fortune, S.M., Berger, B., Finberg, R.W., Kean, L.S., Garber, M., Schmidt, A.G., Lingwood, D., Shalek, A.K., Ordoñas-Montanes, J., HCA Lung Biological Network. Electronic address: lung-network@humancellatlas.org, HCA Lung Biological Network. (2020). SARS-CoV-2 Receptor ACE2 Is an Interferon-Stimulated Gene in Human Airway Epithelial Cells and Is Detected in Specific Cell Subsets across Tissues *Cell* 181,1016. DOI: 10.1016/j.cell.2020.04.035

Übersichtsarbeiten

Osier, F., Ting, J.P.Y., Fraser, J., Lambrecht, B.N., Romano, M., Gazzinelli, R.T., Bortoluci, K.R., Zamboni, D.S., Akbar, A.N., Evans, J.,

Brown, D.E., Patel, K.D., Wu, Y., Perez, A.B., Perez, O., Kamradt, T., Falk, C., Barda-Saad, M., Ariel, A., Santoni, A., Annunziato, F., Casatella, M.A., Kiyono, H., Chereshev, V., Dieye, A., Mbow, M., Mbengue, B., Niang, M.D.S., Suchard, M. (2020). The global response to the COVID-19 pandemic: how have immunology societies contributed? *Nat Rev Immunol* 20,594-602. DOI: 10.1038/s41577-020-00428-4

Case reports

Janciauskiene, S., Royer, P.J., Fuge, J., Wrenger, S., Chorostowska-Wynimko, J., Falk, C., Welte, T., Reynaud-Gaubert, M., Roux, A., Tissot, A., Magnan, A. (2020). Plasma Acute Phase Proteins as Predictors of Chronic Lung Allograft Dysfunction in Lung Transplant Recipients *J Inflamm Res* 13,1021-1028. DOI: 10.2147/JIR.S272662

Ratuszny, D., Skripuletz, T., Wegner, F., Gross, M., Falk, C., Jacobs, R., Ruschulte, H., Stangel, M., Sühs, K.W. (2020). Case Report: Daratumumab in a Patient With Severe Refractory Anti-NMDA Receptor Encephalitis *Front Neurol* 11,602102. DOI: 10.3389/fneur.2020.602102

Abstracts

Bellmàs Sanz, R., Hitz, A., Wiegmann, B., Bläsing, K., Sommer, W., Ius, F., Kühne, J., Knöfel, A., Horn, L., Tudorache, I., Haverich, A., Jonigk, D., Warnecke, G., Falk, C. (2020). Donor T and NK Cells with a Special Tissue-Resident Memory Phenotype Migrate into the Periphery of Lung Transplant Recipients - A Potential Feature for Tolerance Development. *J Heart Lung Transplant* 39,5198. DOI: 10.1016/j.healun.2020.01.801

Hitz, A., Bellmàs Sanz, R., Ius, F., Kühne, J., Wiegmann, B., Sommer, W., Salman, J., Siemeni, T., Greer, M., Kühn, C., Avsar, M., Haverich, A., Warnecke, G., Falk, C.S. (2020). Lung Transplant Recipients Developing Early DSA within the First Month are Characterized by a Higher Frequency of Naïve and a Lower Frequency of Memory B Cells. *J Heart Lung Transplant* 39,5324. DOI: 10.1016/j.healun.2020.01.333

Ius, F., Salman, J., Knoefel, A., Nakagiri, T., Sommer, W., Siemeni, T., Kühn, C., Avsar, M., Falk, C.S., Haverich, A., Tudorache, I., Warnecke, G. (2020). Increased Frequency of Regulatory CD127^{low} T Cells Early after Lung Transplant is Associated with Improved Graft Survival: 10-Year Single-Center Experience. *J Heart Lung Transplant* 39,558. DOI: 10.1016/j.healun.2020.01.1248

Knöfel, A.K., Siemeni, T., Madrahimov, N., Sommer, W., Avsar, M., Ius, F., Tudorache, I., Kühn, C., Daemen, K., Haverich, A., Falk, C., Warnecke, G. (2020). PGD in lung transplant recipients at different times in a humanized mouse transplant model reflect the different influences of donor and recipient by the development of arteriosclerosis. *International Society of Heart and Lung Transplantation (ISHLT)*.

Kühne, J.F., Wandrer, F., Wiegmann, B., Ledwoch, N., Sanz, R.B., Beushausen, K., Keil, J., Ius, F., Sommer, W., Rochas-Hernandez, S., Kühn, C., Tudorache, I., Avsar, M., Haverich, A., Warnecke, G., Falk, C.S. (2020). In Combined Heart/Lung Transplantation, the Reperfusion Response in Recipients is Dominated by Heart-Associated Cytokine and Endothelial Patterns While the Ischemic Injury in the Storage Solution is Dominated by a Lung-Associated Microenvironment. *J Heart Lung Transplant* 39,5288-5289. DOI: 10.1016/j.healun.2020.01.638

Siemeni, T., Knoefel, A., Ius, F., Salman, J., Sommer, W., Avsar, M., Kuehn, C., Maus, U., Falk, C., Tudorache, I., Haverich, A., Warnecke, G. (2020). Correlation of CLAD in Lung Transplant Recipients with Transplant Arteriosclerosis in Humanized Mice: A 5-years Follow Up Analysis. *J Heart Lung Transplant* 39,5200. DOI: 10.1016/j.healun.2020.01.807

Promotionen

Bellmàs Sanz, R. (2020). Lymphocyte dynamics and role of tissue-resident T and NK cells in lung transplantation and disease. Dissertation, Medizinische Hochschule Hannover, 2020

Egelkamp, J. (2020). The role of back signaling in tubular epithelial cells through HLA class I molecules and TNK cell receptor ligands for kidney transplantation. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Seyda, M. (2020). Amplified pulmonary NK cell receptors are conferred to lung recipients and affected by cold preservation. Dissertation, Medizinische Hochschule Hannover, 2020

CF QM Tx – 1122

Originalpublikationen

Becker, F., Roberts, K.J., Nadal, M., Zink, M., Stiegler, P., Pemberger, S., Castellana, T.P., Kellner, C., Murphy, N., Kaltenborn, A., Tuffs, A., Amelung, V., Krauth, C., Bayliss, J., Schrem, H.H. (2020). Optimizing Organ Donation: Expert Opinion from Austria, Germany, Spain and the U.K. *Ann Transplant* 25,e921727. DOI: 10.12659/AOT.921727

Feddersen, N., Pape, L., Beneke, J., Brand, K., Prüfe, J. (2021). Adherence in pediatric renal recipients and its effect on graft outcome, a single-center, retrospective study *Pediatr Transplant* 25,e13922. DOI: 10.1111/ptr.13922

Ramackers, W., Stupak, J.V., Marcheel, I.L., Tuffs, A., Schrem, H., Fischer, V., Beneke, J. (2020). Regression analyses of questionnaires in bedside teaching. *BMC Med Educ* 20,371. DOI: 10.1186/s12909-020-02295-y

Letter

Qu, Z., Oedingen, C., Bartling, T., Schrem, H., Krauth, C. (2020). Organ procurement and transplantation in Germany during the COVID-19 pandemic *Lancet* 396,1395. DOI: 10.1016/S0140-6736(20)32213-3

Promotionen

Gunadas, D.G. (2018). Der Einfluss von Komorbiditäten auf das Auftreten von schwerwiegenden postoperativen Komplikationen nach Leberresektion bei hepatozellulärem Karzinom: ein neuartiges prognostisches Modell. Dissertation, Medizinische Hochschule Hannover, 2020

Homeyer, R. (2020). Postoperative Beatmung nach Pankreatikoduodenektomie erhöht die postoperative Mortalität: Identifikation von Risikofaktoren und deren Bedeutung in Deutschland und Großbritannien Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Schneider, V. (2018). Der Einfluss von prä-transplant Faktoren auf die Entstehung von Krebs nach Nierentransplantation und der Nutzen von G-Charts für den Nachsorgeprozess. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Schwager, Y. (2019). Die Voraussage der Dreijahresmortalität nach Nierentransplantation von Spendernieren verstorbener Organspender bei Erwachsenen mit bereits vor der Transplantation bekannten Spender- und Empfängervariablen. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Witte, A.S. (2019). Der Einfluss von Komorbiditäten der Patienten mit hepatozellulärem Karzinom auf die Notwendigkeit der intraoperativen Transfusion von Erythrozytenkonzentraten während der offen chirurgischen Leberresektion Dissertation, Medizinische Hochschule Hannover, 2020

Zorn, A.S. (2019). Entwicklung und externe Validierung prognostischer Modelle zur Voraussage der Negativ- bzw. Positivwahrnehmung der studentischen Bewertung der Lehre im Phantomkurs des Zahnmedizinstudiums. Dissertation, Medizinische Hochschule Hannover, 2020

Zorn, K.S. (2018). Entwicklung und Validierung eines prognostischen Modells zur Vorhersage der Nierenfunktion ein Jahr nach kombinierter Nieren-Pankreas-Transplantation. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

REBIRTH

REBIRTH: Exzellenzcluster / Cluster of Excellence REBIRTH - 'From Regenerative Biology to Reconstructive Therapy' – 8880

Originalpublikationen

Haufe, S., Kahl, K.G., Kerling, A., Protte, G., Bayerle, P., Stenner, H.T., Rolff, S., Sundermeier, T., Eigendorf, J., Kück, M., Hanke, A.A., Keller-Varady, K., Ensslen, R., Nachbar, L., Lauenstein, D., Böthig, D., Terkamp, C., Stiesch, M., Hilfiker-Kleiner, D., Haverich, A., Tegtbur, U. (2020). Employers With Metabolic Syndrome and Increased Depression/Anxiety Severity Profit Most From Structured Exercise Intervention for Work Ability and Quality of Life *Front Psychiatry* 11,562. DOI: 10.3389/fpsy.2020.00562

Heimerl, M., Sieve, I., Ricke-Hoch, M., Erschow, S., Battmer, K., Scherr, M., Hilfiker-Kleiner, D. (2020). Neuraminidase-1 promotes heart failure after ischemia/reperfusion injury by affecting cardiomyocytes and invading monocytes/macrophages *Basic Res Cardiol* 115,62. DOI: 10.1007/s00395-020-00821-z

Pfeffer, T.J., Herrmann, J., Berliner, D., König, T., Winter, L., Ricke-Hoch, M., Ponimaskin, E., Schuchardt, S., Thum, T., Hilfiker-Kleiner, D., Bauersachs, J., Kahl, K.G. (2020). Assessment of major mental disorders in a German peripartum cardiomyopathy cohort *ESC Heart Fail* 7,4394-4398. DOI: 10.1002/ehf2.12967

Forschungseinrichtungen/Zentrale Einrichtungen

ZIMT – 8700

Originalpublikationen

Stögner, V.A., Kaltenborn, A., Laser, H., Vogt, P.M. (2020). Hand injuries in sports - a retrospective analysis of 364 cases BMC Musculoskelet Disord 27,826. DOI: 10.1186/s12891-020-03807-z

Übersichtsarbeiten

Fiebeck, J., Gietzelt, M., Christmann, M., Gerbel, S. (2020). Implementierung von LOINC an einem Universitätsklinikum - ein kleiner Leitfaden und Lessons learned. MDI 14-17.

Laser, H., Guhr, S., Martenson, J.H., Gless, J., Jandric, B., Görner, J., Amendt, D., Schantze, B., Gerbel, S. (2020). Data Science as a Service - Prototyping an integrated and consolidated IT infrastructure combining enterprise self-service platform and reproducible research. International Journal on Advances in Software 13,104-115.

Abstracts

Winkler, T., Kuczyk, M.A., Tezval, H., Droese, L., Gerbel, S., von Kloth, C.A. (2020). Das Urothelkarzinom der Harnblase - eine retrospektive Analyse der Tumorstadien in Abhängigkeit vom Lebensalter. 14. Nordkongress Urologie, 04.-06. Juni 2020, Berlin (online).

Comprehensive Cancer Center Hannover – 8850

Originalpublikationen

Reinke, E., Jürgens, H., Haier, J., Froehlich, B., Kontny, U., Rossig, C. (2020). Sektorenübergreifende Versorgung in der Pädiatrischen Onkologie: Qualitätssicherung durch neue Vergütungsmodelle für nicht-vollstationäre Leistungen. Klin Padiatr 232,289-293. DOI: 10.1055/a-1158-9341

Editorials

Haier, J., Sleeman, J., Schäfers, J. (2020). Sociocultural incentives for cancer care implementation. Clin Exp Metastasis 37,561-563. DOI: 10.1007/s10585-020-10050-2

Stabsstelle Strahlenschutz und Abteilung Medizinische Physik – 0020

Originalpublikationen

Buchert, R., Dirks, M., Schütze, C., Wilke, F., Mamach, M., Wirries, A.K., Pflugrad, H., Hamann, L., Langer, L.B.N., Wetzel, C., Lukacevic, M., Polyak, A., Kessler, M., Petrusch, C., Bengel, F.M., Geworski, L., Rupprecht, R., Weissenborn, K., Ross, T.L., Berding, G. (2020). Reliable quantification of (18)F-GE-180 PET neuroinflammation studies using an individually scaled population-based input function or late tissue-to-blood ratio. Eur J Nucl Med Mol Imaging 47,2887-2900. DOI: 10.1007/s00259-020-04810-1

Fiebich, M., Block, A., Borowski, M., Geworski, L., Happel, C., Kamp, A., Lenzen, H., Mahnken, A.H., Müller, W., Östreicher, G., Rudolf, F., Stamm, G., Starck, P., Steiniger, B., Wicke, J., Wolf, U., Wucherer, M., Zankl, M., Zink, K., Zweig, C. (2021). Prenatal radiation exposure in diagnostic and interventional radiology. Röfo 193,778-786. DOI: 10.1055/a-1313-7527

Kessler, M., Schierholz, I., Mamach, M., Wilke, F., Hahne, A., Büchner, A., Geworski, L., Bengel, F.M., Sandmann, P., Berding, G. (2020). Combined Brain-Perfusion SPECT and EEG Measurements Suggest Distinct Strategies for Speech Comprehension in CI Users With Higher and Lower Performance. Front Neurosci 14,787. DOI: 10.3389/fnins.2020.00787

Rekowski, J., Hüttmann, A., Schmitz, C., Müller, S.P., Kurch, L., Kotzerke, J., Franzius, C., Weckesser, M., Bengel, F.M., Freesmeyer, M., Hertel, A., Krohn, T., Holzinger, J., Brink, I., Haberkorn, U., Nyuyki, F., van Assema, D.M.E., Geworski, L., Hasenclever, D., Jöckel, K.H., Dührsen, U. (2021). Interim PET evaluation in diffuse large B-cell lymphoma employing published recommendations: Comparison of the Deauville 5-point scale and the DeltaSUVmax method. *J Nucl Med* *62*,37-42. DOI: 10.2967/jnumed.120.244145

Wanke, C., Pinkert, J., Szermerski, B., Geworski, L. (2021). Assessment of the radiation exposure of relatives and caregivers of patients treated with Ra-223 - Results of a German multicenter study. *Z Med Phys* *37*,58-64. DOI: 10.1016/j.zemedi.2020.09.002

sonstiges

Müller-Vahl, K.R., Szejko, N., Wilke, F., Jakobovski, E., Geworski, L., Bengel, F., Berding, G. (2020). Author Correction: Serotonin transporter binding is increased in Tourette syndrome with Obsessive Compulsive Disorder *Sci Rep* *10*,11092. DOI: 10.1038/s41598-020-68278-7

Elektronenmikroskop-Labor – 8840

Originalpublikationen

Beckers, A., Adis, C., Schuster-Gossler, K., Tveriakhina, L., Ott, T., Fuhl, F., Hegermann, J., Boldt, K., Serth, K., Rachev, E., Alten, L., Kremmer, E., Ueffing, M., Blum, M., Gossler, A. (2020). The FOXJ1 target Cfap206 is required for sperm motility, mucociliary clearance of the airways and brain development. *Development* *147*,dev188052. DOI: 10.1242/dev.188052

Duerr, J., Leitz, D.H.W., Szczygiel, M., Dvornikov, D., Fraumann, S.G., Kreutz, C., Zadora, P.K., Seyhan Agircan, A., Konietzke, P., Engelmann, T.A., Hegermann, J., Mulugeta, S., Kawabe, H., Knudsen, L., Ochs, M., Rotin, D., Muley, T., Kreuter, M., Herth, F.J.F., Wielpütz, M.O., Beers, M.F., Klingmüller, U., Mall, M.A. (2020). Conditional deletion of Nedd4-2 in lung epithelial cells causes progressive pulmonary fibrosis in adult mice *Nat Commun* *11*,2012. DOI: 10.1038/s41467-020-15743-6

Mühlfeld, C., Wrede, C., Molnar, V., Rajces, A., Brandenberger, C. (2021). The plate body: 3D ultrastructure of a facultative organelle of alveolar epithelial type II cells involved in SP-A trafficking *Histochem Cell Biol* *155*,261-269. DOI: 10.1007/s00418-020-01912-7

Niehaus, M., Straube, H., Künzler, P., Rugen, N., Hegermann, J., Giavalisco, P., Eubel, H., Witte, C.P., Herde, M. (2020). Rapid Affinity Purification of Tagged Plant Mitochondria (Mito-AP) for Metabolome and Proteome Analyses *Plant Physiol* *182*,1194-1210. DOI: 10.1104/pp.19.00736

Schneider, J.P., Wrede, C., Mühlfeld, C. (2020). The Three-Dimensional Ultrastructure of the Human Alveolar Epithelium Revealed by Focused Ion Beam Electron Microscopy *Int J Mol Sci* *21*,DOI: 10.3390/ijms21031089

Schröder, M.L., Angrisani, N., Fadeeva, E., Hegermann, J., Reifenrath, J. (2020). Laser-structured spike surface shows great bone integrative properties despite infection in vivo *Mater Sci Eng C Mater Biol Appl* *109*,110573. DOI: 10.1016/j.msec.2019.110573

Streich, K., Smoczek, M., Hegermann, J., Dittrich-Breiholz, O., Bornemann, M., Siebert, A., Bleich, A., Buettner, M. (2020). Dietary lipids accumulate in macrophages and stromal cells and change the microarchitecture of mesenteric lymph nodes *J Adv Res* *24*,291-300. DOI: 10.1016/j.jare.2020.04.020

Szepes, M., Melchert, A., Dahlmann, J., Hegermann, J., Werlein, C., Jonigk, D., Haverich, A., Martin, U., Olmer, R., Gruh, I. (2020). Dual Function of iPSC-Derived Pericyte-Like Cells in Vascularization and Fibrosis-Related Cardiac Tissue Remodeling *In Vitro*. *Int J Mol Sci* *21*,8947. DOI: 10.3390/ijms21238947

Wrede, C., Hegermann, J., Mühlfeld, C. (2020). Novel cell contact between podocyte microprojections and parietal epithelial cells analyzed by volume electron microscopy *Am J Physiol Renal Physiol* *318*,F1246-F1251. DOI: 10.1152/ajprenal.00097.2020

Übersichtsarbeiten

Ochs, M., Hegermann, J., Lopez-Rodriguez, E., Timm, S., Nouailles, G., Matuszak, J., Simmons, S., Witzenrath, M., Kuebler, W.M. (2020). On Top of the Alveolar Epithelium: Surfactant and the Glycocalyx *Int J Mol Sci* *21*,DOI: 10.3390/ijms21093075

Transplantationszentrum – 1122

Originalpublikationen

Becker, F., Roberts, K.J., Nadal, M., Zink, M., Stiegler, P., Pemberger, S., Castellana, T.P., Kellner, C., Murphy, N., Kaltenborn, A., Tuffs, A., Amelung, V., Krauth, C., Bayliss, J., Schrem, H.H. (2020). Optimizing Organ Donation: Expert Opinion from Austria, Germany, Spain and the U.K. *Ann Transplant* 25:e921727. DOI: 10.12659/AOT.921727

Feddersen, N., Pape, L., Beneke, J., Brand, K., Prüfe, J. (2021). Adherence in pediatric renal recipients and its effect on graft outcome, a single-center, retrospective study *Pediatr Transplant* 25:e13922. DOI: 10.1111/petr.13922

Ramackers, W., Stupak, J.V., Marcheel, I.L., Tuffs, A., Schrem, H., Fischer, V., Beneke, J. (2020). Regression analyses of questionnaires in bedside teaching. *BMC Med Educ* 20:371. DOI: 10.1186/s12909-020-02295-y

Letter

Qu, Z., Oedingen, C., Bartling, T., Schrem, H., Krauth, C. (2020). Organ procurement and transplantation in Germany during the COVID-19 pandemic *Lancet* 396:1395. DOI: 10.1016/S0140-6736(20)32213-3

Promotionen

Gunadas, D.G. (2018). Der Einfluss von Komorbiditäten auf das Auftreten von schwerwiegenden postoperativen Komplikationen nach Leberresektion bei hepatozellulärem Karzinom: ein neuartiges prognostisches Modell. Dissertation, Medizinische Hochschule Hannover, 2020

Homeyer, R. (2020). Postoperative Beatmung nach Pankreatikoduodenektomie erhöht die postoperative Mortalität: Identifikation von Risikofaktoren und deren Bedeutung in Deutschland und Großbritannien. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Schneider, V. (2018). Der Einfluss von prä-transplant Faktoren auf die Entstehung von Krebs nach Nierentransplantation und der Nutzen von G-Charts für den Nachsorgeprozess. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Schwager, Y. (2019). Die Voraussage der Dreijahresmortalität nach Nierentransplantation von Spendernieren verstorbener Organspender bei Erwachsenen mit bereits vor der Transplantation bekannten Spender- und Empfängervariablen. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Witte, A.S. (2019). Der Einfluss von Komorbiditäten der Patienten mit hepatozellulärem Karzinom auf die Notwendigkeit der intraoperativen Transfusion von Erythrozytenkonzentraten während der offen chirurgischen Leberresektion. Dissertation, Medizinische Hochschule Hannover, 2020

Zorn, A.S. (2019). Entwicklung und externe Validierung prognostischer Modelle zur Voraussage der Negativ- bzw. Positivwahrnehmung der studentischen Bewertung der Lehre im Phantomkurs des Zahnmedizinstudiums. Dissertation, Medizinische Hochschule Hannover, 2020

Zorn, K.S. (2018). Entwicklung und Validierung eines prognostischen Modells zur Vorhersage der Nierenfunktion ein Jahr nach kombinierter Nieren-Pankreas-Transplantation. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Studiendekanat Medizin – 9135

Originalpublikationen

Afshar, K., Matthias, K., Paulmann, V., Engel, B., Stiel, S., Schneider, N. (2020). Ärztliche Ausbildung im Fach Palliativmedizin an der Medizinischen Hochschule Hannover – Weiterentwicklung der interdisziplinären und sektorenübergreifenden Lehre im Querschnittsbereich Q13 (WEISE-Q13). *Schmerz* 34:140-147. DOI: 10.1007/s00482-019-00442-z

Jendretzky, K., Boll, L., Steffens, S., Paulmann, V. (2020). Medical students' experiences with sexual discrimination and perceptions of equal opportunity: a pilot study in Germany *BMC Med Educ* 20:56. DOI: 10.1186/s12909-020-1952-9

Koop, C.F.A., Marschollek, M., Schmiedl, A., Proskynitopoulos, P.J., Behrends, M. (2021). Does an Audiovisual Dissection Manual Improve Medical Students' Learning in the Gross Anatomy Dissection Course? *Anat Sci Educ* 14:615-628. DOI: 10.1002/ase.2012

von Lengerke, T., Afshar, K., Just, I., Lange, K. (2020). Classroom teaching with simulated patients during COVID-19: the communication skills course in the second year of the model medical curriculum Hannibal. *GMS J Med Educ* 37,Doc81. DOI: 10.3205/zma001374

von Lengerke, T., Afshar, K., Just, I., Lange, K. (2020). Präsenzlehre mit Simulationspersonen in Zeiten von COVID-19: Das Gesprächsführungspraktikum im 2. Studienjahr des Modellstudiengangs Hannibal. *GMS J Med Educ* 37,Doc81. DOI: 10.3205/zma001374

Buchbeiträge, Monografien

Steffens, S., Paulmann, V., Foadi, N., Koop, C., Mikuteit, M., Behrends, M. (2020). Das Projekt DigiWissMed - Kompetenzen zu Digitalisierung und Wissenschaftlichkeit in der Medizin. In: Digitalisierung, Medizin, Geschlecht : interdisziplinäre Zugänge, Miemietz B., eds. (Opladen, Berlin, Toronto: Verlag Barbara Budrich) pp. 161-168

Abstracts

Kreitlow, A., Steffens, S., Kuhlmann, E. (2020). COVID-19 and demand for global health in medical education: Findings from a survey at Medical School Hannover. In: 19. Deutscher Kongress für Versorgungsforschung (DKVF). sine loco [digital], 30.09.-01.10.2020, Deutsches Netzwerk Versorgungsforschung e. V., eds. (Düsseldorf: German Medical Science GMS Publishing House) pp. Doc20dkvf246

Kreitlow, A., Steffens, S., Kuhlmann, E. (2020). Students as advocates of global health goals: the case of medical education in Germany. *Eur J Public Health* 30,v227. DOI: 10.1093/eurpub/ckaa165.610

sonstiges

Afshar, K., Laskowski, N.M., Schleef, T., Steffens, S. (2020). Arztberuf: Selbstfürsorge schon im Studium. *Dtsch Arztebl International* 117,A-2405-A-2407.

Foadi, N., Koop, C., Behrends, M. (2020). Medizinische Ausbildung: Welche digitalen Kompetenzen braucht der Arzt? *Dtsch Arztebl International* 117,A596-A600.

Zellsortierung (Sorter-Lab) – 9411

Originalpublikationen

Fichtner, A.S., Bubke, A., Rampoldi, F., Wilharm, A., Tan, L., Steinbrück, L., Schultze-Florey, C., von Kaisenberg, C., Prinz, I., Herrmann, T., Ravens, S. (2020). TCR repertoire analysis reveals phosphoantigen-induced polyclonal proliferation of Vgamma9Vdelta2 T cells in neonates and adults. *J Leukoc Biol* 107,1023-1032. DOI: 10.1002/JLB.1MA0120-427RR

Germeshausen, M., Ballmaier, M. (2021). CAMT-MPL: Congenital Amegakaryocytic Thrombocytopenia caused by MPL mutations - Heterogeneity of a monogenic disorder - Comprehensive analysis of 56 patients *Haematologica* 106,2439-2448. DOI: 10.3324/haematol.2020.257972

Hahn, K., Pollmann, L., Nowak, J., Nguyen, A.H.H., Haake, K., Neehus, A.L., Waqas, S.F.H., Pessler, F., Baumann, U., Hetzel, M., Casanova, J.L., Schulz, A., Bustamante, J., Ackermann, M., Lachmann, N. (2020). Human Lentiviral Gene Therapy Restores the Cellular Phenotype of Autosomal Recessive Complete IFN-gammaR1 Deficiency *Mol Ther Methods Clin Dev* 17,785-795. DOI: 10.1016/j.omtm.2020.04.002

Martens, R., Permanyer, M., Werth, K., Yu, K., Braun, A., Halle, O., Halle, S., Patzer, G.E., Bosnjak, B., Kiefer, F., Janssen, A., Friedrichsen, M., Poetsch, J., Kohli, K., Lueder, Y., Gutierrez Jauregui, R., Eckert, N., Worbs, T., Galla, M., Förster, R. (2020). Efficient homing of T cells via afferent lymphatics requires mechanical arrest and integrin-supported chemokine guidance. *Nat Commun* 11,1114. DOI: 10.1038/s41467-020-14921-w

Moschny, N., Jahn, K., Bajbouj, M., Maier, H.B., Ballmaier, M., Khan, A.Q., Pollak, C., Bleich, S., Frieling, H., Neyazi, A. (2020). DNA Methylation of the t-PA Gene Differs Between Various Immune Cell Subtypes Isolated From Depressed Patients Receiving Electroconvulsive Therapy *Front Psychiatry* 11,571. DOI: 10.3389/fpsy.2020.00571

Moschny, N., Jahn, K., Maier, H.B., Khan, A.Q., Ballmaier, M., Liepach, K., Sack, M., Skripuletz, T., Bleich, S., Frieling, H., Neyazi, A. (2020). Electroconvulsive therapy, changes in immune cell ratios, and their association with seizure quality and clinical outcome in depressed patients *Eur Neuropsychopharmacol* 36,18-28. DOI: 10.1016/j.euroneuro.2020.03.019

Papadogianni, G., Ravens, I., Dittrich-Breiholz, O., Bernhardt, G., Georgiev, H. (2020). Impact of Aging on the Phenotype of Invariant Natural Killer T Cells in Mouse Thymus. *Front Immunol* 11,575764. DOI: 10.3389/fimmu.2020.575764

Ravens, S., Fichtner, A.S., Willers, M., Torkornoo, D., Pirr, S., Schöning, J., Deseke, M., Sandrock, I., Bubke, A., Wilharm, A., Dodoo, D., Egyir, B., Flanagan, K.L., Steinbrück, L., Dickinson, P., Ghazal, P., Adu, B., Viemann, D., Prinz, I. (2020). Microbial exposure drives polyclonal expansion of innate gamma delta T cells immediately after birth. *Proc Natl Acad Sci U S A* *117*,18649-18660. DOI: 10.1073/pnas.1922588117

Theobald, S.J., Kreer, C., Khailaie, S., Bonifacius, A., Eiz-Vesper, B., Figueiredo, C., Mach, M., Backovic, M., Ballmaier, M., Koenig, J., Olbrich, H., Schneider, A., Volk, V., Danisch, S., Gieselmann, L., Ercanoglu, M.S., Messerle, M., Kaisenberg, C.V., Witte, T., Klawonn, F., Meyer-Hermann, M., Klein, F., Striebeck, R. (2020). Repertoire characterization and validation of gB-specific human IgGs directly cloned from humanized mice vaccinated with dendritic cells and protected against HCMV. *PLoS Pathog* *16*,e1008560. DOI: 10.1371/journal.ppat.1008560

Wilharm, A., Brigas, H.C., Sandrock, I., Ribeiro, M., Amado, T., Reinhardt, A., Demera, A., Hoenicke, L., Strowig, T., Carvalho, T., Prinz, I., Ribot, J.C. (2021). Microbiota-dependent expansion of testicular IL-17-producing Vgamma6(+) gamma delta T cells upon puberty promotes local tissue immune surveillance. *Mucosal Immunol* *14*,242-252. DOI: 10.1038/s41385-020-0330-6

Case reports

Niehues, T., Özgür, T.T., Bickes, M., Waldmann, R., Schöning, J., Bräsen, J., Hagel, C., Ballmaier, M., Klusmann, J.H., Niedermayer, A., Pannicke, U., Enders, A., Dückers, G., Siepermann, K., Hempel, J., Schwarz, K., Viemann, D. (2020). Mutations of the gene FNIP1 associated with a syndromic autosomal recessive immunodeficiency with cardiomyopathy and pre-excitation syndrome. *Eur J Immunol* *50*,1078-1080. DOI: 10.1002/eji.201948504

Zentralapotheke – 8500

Originalpublikationen

Dörje, F., Grandt, D., Picksak, G., Klaas, C. (2020). Arzneimitteltherapieanamnese in Zeiten von COVID-19. *KHP* *41*,215-219.

Lau, H., Picksak, G. (2020). Medikationsfehler - Oft übersehen: Arzneimittelinteraktionen mit Nahrungsmitteln. *KHP* *41*,312-313.

Picksak, G. (2020). Medikationsfehler - Auch die Pause gehört zur aktuellen Medikation. *KHP* *41*,513-514.

Picksak, G. (2020). Medikationsfehler - Wer denkt, dass er denkt... liegt doch manchmal falsch. *KHP* *41*,390-391.

Picksak, G., Seoudy, K. (2020). Medikationsfehler - Sie passieren immer wieder: Übertragungsfehler im Krankenhaus. *KHP* *41*,351-352.

Schicksnus, T., Picksak, G. (2020). Medikationsfehler - Erstöffnungsschutz führt zu neuen Problemen bei der Lagerung. *KHP* *41*,273-274.

Staack, A., Picksak, G. (2020). Medikationsfehler - Chargenrückruf - wurden wirklich alle Bereiche informiert? *KHP* *41*,444.

sonstiges

Haaf, M., Picksak, G. (2020). Medikationsfehler - Die Nebenwirkung ist zu ausgeprägt, die kommt nicht vom Statin... *KHP* *41*,197-198.

Picksak, G. (2020). Medikationsfehler - La Le Lu, der Patient schläft immerzu! *KHP* *41*,109.

Picksak, G., Althaus, C. (2020). Medikationsfehler - Eine elektronische Verordnungssoftware allein schützt nicht vor Medikationsfehlern. *KHP* *41*,233-234.

Picksak, G., Schicksnus, T. (2020). Medikationsfehler - Eine unvollständige Arzneimittelanamnese lässt Patienten und Arzt schwitzen. *KHP* *41*,29-30.

ter Horst, N., Picksak, G. (2020). Medikationsfehler - Damit rechnet keiner: Verwechslung von Lantus®-Fertigpen und Lantarel®-Fertigspritze. *KHP* *41*,151-152.

Geschäftsführung Pflege – 3010

Originalpublikationen

lus, F., Müller, C., Sommer, W., Verboom, M., Hallensleben, M., Salman, J., Siemeni, T., Kühn, C., Avsar, M., Bobylev, D., Poyanmehr, R., Erdfelder, C., Böthig, D., Carlens, J., Bayir, L., Hansen, G., Blasczyk, R., Falk, C., Tecklenburg, A., Haverich, A., Tudorache, I., Schwerk, N., Warnecke, G. (2020). Six-year experience with treatment of early donor-specific anti-HLA antibodies in pediatric lung transplantation using a human immunoglobulin-based protocol *Pediatr Pulmonol* 55,754-764. DOI: 10.1002/ppul.24639

Zentrum für experimentelle und klinische Infektionsforschung (TwinCore)

Institut für Experimentelle Infektionsforschung – 9651

Originalpublikationen

Borst, K., Flindt, S., Blank, P., Larsen, P.K., Chhatbar, C., Skerra, J., Spanier, J., Hirche, C., König, M., Alanentalo, T., Hafner, M., Waibler, Z., Pfeffer, K., Sexl, V., Sutter, G., Müller, W., Graalman, T., Kalinke, U. (2020). Selective reconstitution of IFN γ gene function in Ncr1+ NK cells is sufficient to control systemic vaccinia virus infection *PLoS Pathog* 16,e1008279. DOI: 10.1371/journal.ppat.1008279

de Araujo, L.S., Pessler, K., Sühs, K.W., Novoselova, N., Klawonn, F., Kuhn, M., Kaever, V., Müller-Vahl, K., Trebst, C., Skripuletz, T., Stangel, M., Pessler, F. (2020). Phosphatidylcholine PC ae C44:6 in cerebrospinal fluid is a sensitive biomarker for bacterial meningitis *J Transl Med* 18,9. DOI: 10.1186/s12967-019-02179-w

Elsner, C., Ponnurangam, A., Kazmierski, J., Zillinger, T., Jansen, J., Todt, D., Döhner, K., Xu, S., Ducroux, A., Kriedemann, N., Malassa, A., Larsen, P.K., Hartmann, G., Barchet, W., Steinmann, E., Kalinke, U., Sodeik, B., Goffinet, C. (2020). Absence of cGAS-mediated type I IFN responses in HIV-1-infected T cells *Proc Natl Acad Sci U S A* 117,19475-19486. DOI: 10.1073/pnas.2002481117

Forster, D., Schwarz, J.H., Brosinski, K., Kalinke, U., Sutter, G., Volz, A. (2020). Obstetric Ultrasonography to Detect Fetal Abnormalities in a Mouse Model for Zika Virus Infection *Viruses* 12,DOI: 10.3390/v12010072

Freuer, D., Linseisen, J., Waterboer, T., Pessler, F., Guzman, C.A., Wawro, N., Peters, A., Meisinger, C. (2020). Seropositivity of selected chronic infections and different measures of obesity *PLoS One* 15,e0231974. DOI: 10.1371/journal.pone.0231974

Gamrekelashvili, J., Kapanadze, T., Sablotny, S., Ratiu, C., Dastagir, K., Lochner, M., Karbach, S., Wenzel, P., Sitnow, A., Fleig, S., Sparwasser, T., Kalinke, U., Holzmann, B., Haller, H., Limbourg, F.P. (2020). Notch and TLR signaling coordinate monocyte cell fate and inflammation. *Elife* 9,e57007. DOI: 10.7554/eLife.57007

Haake, K., Neehus, A.L., Buchegger, T., Kühnel, M.P., Blank, P., Philipp, F., Oleaga-Quintas, C., Schulz, A., Grimley, M., Goethe, R., Jonnigk, D., Kalinke, U., Boisson-Dupuis, S., Casanova, J.L., Bustamante, J., Lachmann, N. (2020). Patient iPSC-Derived Macrophages to Study Inborn Errors of the IFN- γ Responsive Pathway *Cells* 9,DOI: 10.3390/cells9020483

Hahn, K., Pollmann, L., Nowak, J., Nguyen, A.H.H., Haake, K., Neehus, A.L., Waqas, S.F.H., Pessler, F., Baumann, U., Hetzel, M., Casanova, J.L., Schulz, A., Bustamante, J., Ackermann, M., Lachmann, N. (2020). Human Lentiviral Gene Therapy Restores the Cellular Phenotype of Autosomal Recessive Complete IFN- γ R1 Deficiency *Mol Ther Methods Clin Dev* 17,785-795. DOI: 10.1016/j.omtm.2020.04.002

Hosseini, S., Michaelsen-Preusse, K., Grigoryan, G., Chhatbar, C., Kalinke, U., Korte, M. (2020). Type I Interferon Receptor Signaling in Astrocytes Regulates Hippocampal Synaptic Plasticity and Cognitive Function of the Healthy CNS *Cell Rep* 31,107666. DOI: 10.1016/j.celrep.2020.107666

Knop, L., Deiser, K., Bank, U., Witte, A., Mohr, J., Philipsen, L., Fehling, H.J., Müller, A.J., Kalinke, U., Schüler, T. (2020). IL-7 derived from lymph node fibroblastic reticular cells is dispensable for naive T cell homeostasis but crucial for central memory T cell survival *Eur J Immunol* 50,846-857. DOI: 10.1002/eji.201948368

Kreissl, S., Hendler, S., Akmatov, M.K., von Meien, M., Range, U., Pessler, F., Vogelberg, C. (2021). Reduced Exhaled Breath Condensate pH and Severity of Allergic Sensitization Predict School Age Asthma *J Allergy Clin Immunol Pract* 9,1570-1577. DOI: 10.1016/j.jaip.2020.10.058

Luo, Y., Möhn, N., Al-Mekhlafi, A., Schuchardt, S., Skripuletz, T., Sühs, W., Pessler, F., Stangel, M. (2020). Targeted metabolomic profiling of cerebrospinal fluid from patients with progressive multifocal leukoencephalopathy *PLoS One* 15,e0242321. DOI: 10.1371/journal.pone.0242321

Martin-Fernandez, M., Bravo Garcia-Morato, M., Gruber, C., Murias Loza, S., Malik, M.N.H., Alsohime, F., Alakeel, A., Valdez, R., Buta, S., Buda, G., Marti, M.A., Larralde, M., Boisson, B., Feito Rodriguez, M., Qiu, X., Chrabieh, M., Al Ayed, M., Al Muhsen, S., Desai, J.V., Ferre, E.M.N., Rosenzweig, S.D., Amador-Borrero, B., Bravo-Gallego, L.Y., Olmer, R., Merkert, S., Bret, M., Sood, A.K., Al-Rabiaah, A., Temsah, M.H., Halwani, R., Hernandez, M., Pessler, F., Casanova, J.L., Bustamante, J., Lionakis, M.S., Bogunovic, D. (2020). Systemic Type I IFN Inflammation in Human ISG15 Deficiency Leads to Necrotizing Skin Lesions *Cell Rep* 31,107633. DOI: 10.1016/j.celrep.2020.107633

Merkert, S., Jaboreck, M.C., Engels, L., Malik, M.N.H., Göhring, G., Pessler, F., Martin, U., Olmer, R. (2021). Generation of two human ISG15 knockout iPSC clones using CRISPR/Cas9 editing *Stem Cell Res* 50,102135. DOI: 10.1016/j.scr.2020.102135

Mulas, F., Wang, X., Song, S., Nishanth, G., Yi, W., Brunn, A., Larsen, P.K., Isermann, B., Kalinke, U., Barragan, A., Naumann, M., Deckert, M., Schlüter, D. (2021). The deubiquitinase OTUB1 augments NF-kappaB-dependent immune responses in dendritic cells in infection and inflammation by stabilizing UBC13 *Cell Mol Immunol* 18,1512-1527. DOI: 10.1038/s41423-020-0362-6

Namineni, S., O'Connor, T., Faure-Dupuy, S., Johansen, P., Riedl, T., Liu, K., Xu, H., Singh, I., Shinde, P., Li, F., Pandya, A., Sharma, P., Ringelhan, M., Muschawekch, A., Borst, K., Blank, P., Lampl, S., Neuhaus, K., Durantel, D., Farhat, R., Weber, A., Lenggenhager, D., Kündig, T.M., Staeheli, P., Protzer, U., Wohlleber, D., Holzmann, B., Binder, M., Breuhahn, K., Assmus, L.M., Nattermann, J., Abdullah, Z., Rolland, M., Dejardin, E., Lang, P.A., Lang, K.S., Karin, M., Lucifora, J., Kalinke, U., Knolle, P.A., Heikenwalder, M. (2020). A dual role for hepatocyte-intrinsic canonical NF-kappaB signaling in virus control *J Hepatol* 72,960-975. DOI: 10.1016/j.jhep.2019.12.019

Reinke, S., Linge, M., Diebner, H.H., Luksch, H., Glage, S., Gocht, A., Robertson, A.A.B., Cooper, M.A., Hofmann, S.R., Naumann, R., Sarov, M., Behrendt, R., Roers, A., Pessler, F., Roesler, J., Rösen-Wolff, A., Winkler, S. (2020). Non-canonical Caspase-1 Signaling Drives RIP2-Dependent and TNF-alpha-Mediated Inflammation In Vivo *Cell Rep* 30,2501-2511.e5. DOI: 10.1016/j.celrep.2020.01.090

Schaupp, L., Muth, S., Rogell, L., Kofoed-Branzk, M., Melchior, F., Lienenklaus, S., Ganai-Vonarburg, S.C., Klein, M., Guendel, F., Hain, T., Schütze, K., Grundmann, U., Schmitt, V., Dorsch, M., Spanier, J., Larsen, P.K., Schwanz, T., Jackel, S., Reinhardt, C., Bopp, T., Danckwardt, S., Mahnke, K., Heinz, G.A., Mashreghi, M.F., Durek, P., Kalinke, U., Kretz, O., Huber, T.B., Weiss, S., Wilhelm, C., Macpherson, A.J., Schild, H., Diefenbach, A., Probst, H.C. (2020). Microbiota-Induced Type I Interferons Instruct a Poised Basal State of Dendritic Cells. *Cell* 181,1080-1096.e19. DOI: 10.1016/j.cell.2020.04.022

Seelbinder, B., Wallstabe, J., Marischen, L., Weiss, E., Wurster, S., Page, L., Löffler, C., Bussemer, L., Schmitt, A.L., Wolf, T., Linde, J., Cicin-Sain, L., Becker, J., Kalinke, U., Vogel, J., Panagiotou, G., Einsele, H., Westermann, A.J., Schäuble, S., Loeffler, J. (2020). Triple RNA-Seq Reveals Synergy in a Human Virus-Fungus Co-infection Model *Cell Rep* 33,108389. DOI: 10.1016/j.celrep.2020.108389

Vardi, A., Ben-Dor, S., Cho, S.M., Kalinke, U., Spanier, J., Futerman, A.H. (2020). Mice defective in interferon signaling help distinguish between primary and secondary pathological pathways in a mouse model of neuronal forms of Gaucher disease *J Neuroinflammation* 17,265. DOI: 10.1186/s12974-020-01934-x

Promotionen

Ahmed, M. (2018). Erfassung der Immunoseneszenz mittels eines Fragebogens Ergebnisse einer prospektiven, bevölkerungsbasierten Impfstudie bei älteren Personen Kumulative Dissertation, Medizinische Hochschule Hannover, 2019

Durán Mejia, V. (2019). Carbohydrate-functionalized nanocarriers for the selective targeting of antigen presenting cells. Dissertation, Medizinische Hochschule Hannover, 2020

Lindemann, C. (2019). Aufmerksamkeitsdefizit- / Hyperaktivitätsstörung (ADHS) in Deutschland Prävalenz und assoziiertes Verletzungsrisiko : Analyse der Krankenkassendaten. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Sauer, H. (2020). Die Bedeutung von Mustererkennungsrezeptoren und Typ I-Interferonantworten für den Verlauf der Herpes simplex Encephalitis. Dissertation, Medizinische Hochschule Hannover, 2020

Sohail, A. (2020). Use of the human lung tissue explant model for functional biomarker studies in the early phase of infections. Dissertation, Medizinische Hochschule Hannover, 2020

Institut für Experimentelle Virologie – 9652

Originalpublikationen

Alberione, M.P., Moeller, R., Kirui, J., Ginkel, C., Doepke, M., Ströh, L.J., Machtens, J.P., Pietschmann, T., Gerold, G. (2020). Single-nucleotide variants in human CD81 influence hepatitis C virus infection of hepatoma cells *Med Microbiol Immunol* *209*,499-514. DOI: 10.1007/s00430-020-00675-1

Armando, F., Gambini, M., Corradi, A., Becker, K., Marek, K., Pfankuche, V.M., Mergani, A.E., Brogden, G., de Buhr, N., von Köckritz-Blickwede, M., Naim, H.Y., Baumgärtner, W., Puff, C. (2020). Mesenchymal to epithelial transition driven by canine distemper virus infection of canine histiocytic sarcoma cells contributes to a reduced cell motility in vitro *J Cell Mol Med* *24*,9332-9348. DOI: 10.1111/jcmm.15585

Baird, J., Tegtmeyer, B., Arroyo, L., Stang, A., Brüggemann, Y., Hazlett, M., Steinmann, E. (2020). The association of Equine Parvovirus-Hepatitis (EqPV-H) with cases of non-biologic-associated Theiler's disease on a farm in Ontario, Canada *Vet Microbiol* *242*,108575. DOI: 10.1016/j.vetmic.2019.108575

Bankwitz, D., Bahai, A., Labuhn, M., Doepke, M., Ginkel, C., Khera, T., Todt, D., Ströh, L.J., Dold, L., Klein, F., Klawonn, F., Krey, T., Behrendt, P., Cornberg, M., McHardy, A.C., Pietschmann, T. (2021). Hepatitis C reference viruses highlight potent antibody responses and diverse viral functional interactions with neutralising antibodies *Gut* *70*,1734-1745. DOI: 10.1136/gutjnl-2020-321190

Blockus, S., Sake, S.M., Wetzke, M., Grethe, C., Graalmann, T., Pils, M., Le Goffic, R., Galloux, M., Prochnow, H., Rox, K., Hüttel, S., Rupcic, Z., Wiegmann, B., Dijkman, R., Rameix-Welti, M.A., Eleouet, J.F., Duprex, W.P., Thiel, V., Hansen, G., Brönstrup, M., Haid, S., Pietschmann, T. (2020). Labyrinthopeptins as virolytic inhibitors of respiratory syncytial virus cell entry *Antiviral Res* *177*,104774. DOI: 10.1016/j.antiviral.2020.104774

Brown, R.J.P., Tegtmeyer, B., Sheldon, J., Khera, T., Anggakusuma, Todt, D., Vieyres, G., Weller, R., Joecks, S., Zhang, Y., Sake, S., Bankwitz, D., Welsch, K., Ginkel, C., Engelmann, M., Gerold, G., Steinmann, E., Yuan, Q., Ott, M., Vondran, F.W.R., Krey, T., Ströh, L.J., Miskey, C., Ivics, Z., Herder, V., Baumgärtner, W., Lauber, C., Seifert, M., Tarr, A.W., McClure, C.P., Randall, G., Baktash, Y., Ploss, A., Thi, V.L.D., Michailidis, E., Saeed, M., Verhoye, L., Meuleman, P., Goedecke, N., Wirth, D., Rice, C.M., Pietschmann, T. (2020). Liver-expressed Cd302 and Cr11 limit hepatitis C virus cross-species transmission to mice *Sci Adv* *6*,DOI: 10.1126/sciadv.abd3233

Carpentier, A., Sheldon, J., Vondran, F.W.R., Brown, R.J., Pietschmann, T. (2020). Efficient acute and chronic infection of stem cell-derived hepatocytes by hepatitis C virus. *Gut* *69*,1659-1666. DOI: 10.1136/gutjnl-2019-319354

Elsner, C., Ponnurangam, A., Kazmierski, J., Zillinger, T., Jansen, J., Todt, D., Döhner, K., Xu, S., Ducroux, A., Kriedemann, N., Malassa, A., Larsen, P.K., Hartmann, G., Barchet, W., Steinmann, E., Kalinke, U., Sodeik, B., Goffinet, C. (2020). Absence of cGAS-mediated type I IFN responses in HIV-1-infected T cells *Proc Natl Acad Sci U S A* *117*,19475-19486. DOI: 10.1073/pnas.2002481117

Gunesch, A.P., Zapatero-Belinchon, F.J., Pinkert, L., Steinmann, E., Manns, M.P., Schneider, G., Pietschmann, T., Brönstrup, M., von Hahn, T. (2020). Filovirus antiviral activity of cationic amphiphilic drugs is associated with lipophilicity and ability to induce phospholipidosis *Antimicrob Agents Chemother* *64*,e00143-20. DOI: 10.1128/AAC.00143-20

Kinast, V., Plociennikowska, A., Anggakusuma, Bracht, T., Todt, D., Brown, R.J.P., Boldanova, T., Zhang, Y., Brüggemann, Y., Friesland, M., Engelmann, M., Vieyres, G., Broering, R., Vondran, F.W.R., Heim, M.H., Sitek, B., Bartenschlager, R., Pietschmann, T., Steinmann, E. (2020). C19orf66 is an interferon-induced inhibitor of HCV replication that restricts formation of the viral replication organelle. *J Hepatol* *73*,549-558. DOI: 10.1016/j.jhep.2020.03.047

Köllmann, C., Sake, S.M., Jones, P.G., Pietschmann, T., Werz, D.B. (2020). Protecting-Group-Mediated Diastereoselective Synthesis of C4'-Methylated Uridine Analogs and Their Activity against the Human Respiratory Syncytial Virus *J Org Chem* *85*,4267-4278. DOI: 10.1021/acs.joc.9b03425

Lindqvist, R., Rosendal, E., Weber, E., Asghar, N., Schreier, S., Lenman, A., Johansson, M., Dobler, G., Bestehorn, M., Kröger, A., Överby, A.K. (2020). The envelope protein of tick-borne encephalitis virus influences neuron entry, pathogenicity, and vaccine protection *J Neuroinflammation* *17*,284. DOI: 10.1186/s12974-020-01943-w

Moreira-Soto, A., Arroyo-Murillo, F., Sander, A.L., Rasche, A., Corman, V., Tegtmeyer, B., Steinmann, E., Corrales-Aguilar, E., Wieseke, N., Avey-Arroyo, J., Drexler, J.F. (2020). Cross-order host switches of hepatitis C-related viruses illustrated by a novel hepacivirus from sloths *Virus Evol* *6*,veaa033. DOI: 10.1093/ve/veaa033

Moreno, H., Rastrojo, A., Pryce, R., Fedeli, C., Zimmer, G., Bowden, T.A., Gerold, G., Kunz, S. (2020). A novel circulating tamiami mammarenavirus shows potential for zoonotic spillover *PLoS Negl Trop Dis* *14*,e0009004. DOI: 10.1371/journal.pntd.0009004

Palor, M., Stejskal, L., Mandal, P., Lenman, A., Alberione, M.P., Kirui, J., Moeller, R., Ebner, S., Meissner, F., Gerold, G., Shepherd, A.J., Grove, J. (2020). Cholesterol sensing by CD81 is important for hepatitis C virus entry *J Biol Chem* *295*,16931-16948. DOI: 10.1074/jbc.RA120.014761

Persson, B.D., Lenman, A., Frängsmyr, L., Schmid, M., Ahlm, C., Plückthun, A., Jenssen, H., Arnberg, N. (2020). Lactoferrin-Hexon Interactions Mediate CAR-Independent Adenovirus Infection of Human Respiratory Cells *J Virol* *94*,DOI: 10.1128/JVI.00542-20

Praditya, D., Friesland, M., Gravemann, U., Handke, W., Todt, D., Behrendt, P., Müller, T.H., Steinmann, E., Seltsam, A. (2020). Hepatitis E virus is effectively inactivated in platelet concentrates by ultraviolet C light *Vox Sang* *115*,555-561. DOI: 10.1111/vox.12936

Todt, D., Friesland, M., Moeller, N., Praditya, D., Kinast, V., Brüggemann, Y., Knegendorf, L., Burkard, T., Steinmann, J., Burm, R., Verhoye, L., Wahid, A., Meister, T.L., Engelmann, M., Pfankuche, V.M., Puff, C., Vondran, F.W.R., Baumgärtner, W., Meuleman, P., Behrendt, P., Steinmann, E. (2020). Robust hepatitis E virus infection and transcriptional response in human hepatocytes. *Proc Natl Acad Sci U S A* *117*,1731-1741. DOI: 10.1073/pnas.1912307117

Tran, H.T.L., Morikawa, K., Anggakusuma, Zibi, R., Thi, V.L.D., Penin, F., Heim, M.H., Quadroni, M., Pietschmann, T., Gouttenoire, J., Moradpour, D. (2020). OCIAD1 is a host mitochondrial substrate of the hepatitis C virus NS3-4A protease *PLoS One* *15*,e0236447. DOI: 10.1371/journal.pone.0236447

Vieyres, G., Reichert, I., Carpentier, A., Vondran, F.W.R., Pietschmann, T. (2020). The ATGL lipase cooperates with ABHD5 to mobilize lipids for hepatitis C virus assembly. *PLoS Pathog* *16*,e1008554. DOI: 10.1371/journal.ppat.1008554

Wahlicht, T., Vieyres, G., Bruns, S.A., Meumann, N., Büning, H., Hauser, H., Schmitz, I., Pietschmann, T., Wirth, D. (2020). Controlled Functional Zonation of Hepatocytes In Vitro by Engineering of Wnt Signaling *ACS Synth Biol* *9*,1638-1649. DOI: 10.1021/acssynbio.9b00435

Übersichtsarbeiten

Glebe, D., Goldmann, N., Lauber, C., Seitz, S. (2020). HBV evolution and genetic variability: Impact on prevention, treatment and development of antivirals *Antiviral Res* *186*,104973. DOI: 10.1016/j.antiviral.2020.104973

sonstiges

Haid, S., Grethe, C., Bankwitz, D., Grunwald, T., Pietschmann, T. (2020). Correction for Haid et al., "Identification of a Human Respiratory Syncytial Virus Cell Entry Inhibitor by Using a Novel Lentiviral Pseudotype System" *J Virol* *94*,DOI: 10.1128/JVI.01690-19

Promotionen

Gerdes, H.W. (2019). Structural studies on the RNA dependent RNA polymerases of norovirus and hendra virus and their inhibition. Dissertation, Medizinische Hochschule Hannover, 2020

Kinast, V.F. (2020). Virus-host-interactions of hepatitis C virus. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Sake, S.M. (2020). Development of a lentiviral pseudotype system for murine pneumonia virus and characterization of human respiratory syncytial virus targeting antivirals. Dissertation, Medizinische Hochschule Hannover, 2020

Institut für Infektionsimmunologie – 9653

Promotionen

Krull, F.E. (2019). The influence of a small molecule compound on dendritic cell differentiation and metabolism. Dissertation, Medizinische Hochschule Hannover, 2020

Martins Carriche, G. (2020). Modulation of T cell differentiation and function by bacterial metabolites Dissertation, Medizinische Hochschule Hannover, 2020

Institut für Molekulare Bakteriologie – 9654

Originalpublikationen

Depke, T., Häussler, S., Brönstrup, M. (2020). The Peptide Chain Release Factor Methyltransferase PrmC Influences the *Pseudomonas aeruginosa* PA14 Endo- and Exometabolome Metabolites *10*,10.3390/metabo10100417.

Depke, T., Thöming, J.G., Kordes, A., Häussler, S., Brönstrup, M. (2020). Untargeted LC-MS Metabolomics Differentiates Between Virulent and Avirulent Clinical Strains of *Pseudomonas aeruginosa* Biomolecules *10*,1041. DOI: 10.3390/biom10071041

Donnert, M., Elsheikh, S., Arce-Rodriguez, A., Pawar, V., Braubach, P., Jonigk, D., Haverich, A., Weiss, S., Müsken, M., Häussler, S. (2020). Targeting bioenergetics is key to counteracting the drug-tolerant state of biofilm-grown bacteria *PLoS Pathog* *16*,e1009126. DOI: 10.1371/journal.ppat.1009126

Engelhardt, F., Tomasch, J., Häussler, S. (2020). Organism-specific depletion of highly abundant RNA species from bacterial total RNA *Access Microbiol* *2*,DOI: 10.1099/acmi.0.000159

Felgner, S., Preusse, M., Beutling, U., Stahnke, S., Pawar, V., Rohde, M., Brönstrup, M., Stradal, T., Häussler, S. (2020). Host-induced spermidine production in motile *Pseudomonas aeruginosa* triggers phagocytic uptake *Elife* *9*,e55744. DOI: 10.7554/eLife.55744

Grekov, I., Thöming, J.G., Kordes, A., Häussler, S. (2021). Evolution of *Pseudomonas aeruginosa* toward higher fitness under standard laboratory conditions *ISME J* *15*,1165-1177. DOI: 10.1038/s41396-020-00841-6

Khaledi, A., Weimann, A., Schniederjans, M., Asgari, E., Kuo, T.H., Oliver, A., Cabot, G., Kola, A., Gastmeier, P., Hogardt, M., Jonas, D., Mofrad, M.R., Bremges, A., McHardy, A.C., Häussler, S. (2020). Predicting antimicrobial resistance in *Pseudomonas aeruginosa* with machine learning-enabled molecular diagnostics. *EMBO Mol Med* *12*,e10264. DOI: 10.15252/emmm.201910264

Muthukumarasamy, U., Preusse, M., Kordes, A., Koska, M., Schniederjans, M., Khaledi, A., Häussler, S. (2020). Single-nucleotide polymorphism-based genetic diversity analysis of clinical *Pseudomonas aeruginosa* isolates. *Genome Biol Evol* *12*,396-406. DOI: 10.1093/gbe/evaa059

Schinner, S., Engelhardt, F., Preusse, M., Thöming, J.G., Tomasch, J., Häussler, S. (2020). Genetic determinants of *Pseudomonas aeruginosa* fitness during biofilm growth *Biofilm* *2*,DOI: 10.1016/j.biofilm.2020.100023

Schinner, S., Preusse, M., Kesthely, C., Häussler, S. (2021). Analysis of the organization and expression patterns of the convergent *Pseudomonas aeruginosa* *lasR/rsaL* gene pair uncovers mutual influence *Mol Microbiol* *115*,643-657. DOI: 10.1111/mmi.14628

Seupt, A., Schniederjans, M., Tomasch, J., Häussler, S. (2020). Expression of the MexXY aminoglycoside efflux pump and presence of an aminoglycoside modifying enzyme in clinical *Pseudomonas aeruginosa* isolates are highly correlated *Antimicrob Agents Chemother* *65*,e01166-20. DOI: 10.1128/AAC.01166-20

Stressmann, F.A., Bernal-Bayard, J., Perez-Pascual, D., Audrain, B., Rendueles, O., Briolat, V., Bruchmann, S., Volant, S., Ghoulane, A., Häussler, S., Duchaud, E., Levraud, J.P., Ghigo, J.M. (2021). Mining zebrafish microbiota reveals key community-level resistance against fish pathogen infection *ISME J* *15*,702-719. DOI: 10.1038/s41396-020-00807-8

Thöming, J.G., Tomasch, J., Preusse, M., Koska, M., Grahl, N., Pohl, S., Willger, S.D., Kaever, V., Müsken, M., Häussler, S. (2020). Parallel evolutionary paths to produce more than one *Pseudomonas aeruginosa* biofilm phenotype *NPJ Biofilms Microbiomes* *6*,2. DOI: 10.1038/s41522-019-0113-6

Helmholtz-Zentrum für Infektionsforschung (HZI)

Abteilung für Epidemiologie

Originalpublikationen

Dragano, N., Reuter, M., Greiser, K.H., Becher, H., Zeeb, H., Mikolajczyk, R., Kluttig, A., Leitzmann, M., Fischer, B., Jockel, K.H., Emmel, C., Krause, G., Castell, S., Damms-Machado, A., Obi, N., Schikowski, T., Kuss, O., Hoffmann, W., Schipf, S., Pischon, T., Jaeschke, L., Krist, L., Keil, T., Lieb, W., Holleczeck, B., Brenner, H., Wirkner, K., Loeffler, M., Michels, K.B., Franzke, C.W., Peters, A., Linseisen, J., Berger, K., Legath, N., Ahrens, W., Lampert, T., Schmidt, B. (2020). Soziodemografische und erwerbsbezogene Merkmale in der NAKO Gesundheitsstudie. *Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz* 63,267-278. DOI: 10.1007/s00103-020-03098-8

Hassenstein, M.J., Aarabi, G., Ahnert, P., Becher, H., Franzke, C.W., Fricke, J., Krause, G., Glockner, S., Gottschick, C., Karch, A., Kemmling, Y., Kerrinnes, T., Lange, B., Mikolajczyk, R., Nieters, A., Ott, J.J., Ahrens, W., Berger, K., Meinke-Franze, C., Gastell, S., Gunther, K., Greiser, K.H., Holleczeck, B., Horn, J., Jaeschke, L., Jagodzinski, A., Jansen, L., Jochem, C., Jockel, K.H., Kaaks, R., Krist, L., Kuss, O., Langer, S., Legath, N., Leitzmann, M., Lieb, W., Loeffler, M., Mangold, N., Michels, K.B., Meisinger, C., Obi, N., Pischon, T., Schikowski, T., Schipf, S., Schulze, M.B., Stang, A., Waniek, S., Wirkner, K., Willich, S.N., Castell, S. (2020). Selbst berichtete Infektionen in der NAKO Gesundheitsstudie - Einordnung in die gegenwärtige Forschungslandschaft. *Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz* 63,404-414. DOI: 10.1007/s00103-020-03114-x

Holtfreter, B., Samietz, S., Hertrampf, K., Aarabi, G., Hagenfeld, D., Kim, T.S., Kocher, T., Koos, B., Schmitter, M., Ahrens, W., Alwers, E., Becher, H., Berger, K., Brenner, H., Damms-Machado, A., Ebert, N., Fischer, B., Franzke, C.W., Frolich, S., Greiser, H., Gies, A., Gunther, K., Hassan, L., Hoffmann, W., Jaeschke, L., Keil, T., Kemmling, Y., Krause, G., Krist, L., Legath, N., Lieb, W., Leitzmann, M., Linseisen, J., Loeffler, M., Meinke-Franze, C., Michels, K.B., Mikolajczyk, R., Obi, N., Peters, A., Pischon, T., Schipf, S., Schmidt, B., Volzke, H., Waniek, S., Wigmann, C., Wirkner, K., Schmidt, C.O., Kuhnisch, J., Rupp, S. (2020). Design und Qualitätskontrolle der zahnmedizinischen Untersuchung in der NAKO Gesundheitsstudie. *Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz* 63,426-438. DOI: 10.1007/s00103-020-03107-w

Jaeschke, L., Steinbrecher, A., Greiser, K.H., Dorr, M., Buck, T., Linseisen, J., Meisinger, C., Ahrens, W., Becher, H., Berger, K., Braun, B., Brenner, H., Castell, S., Fischer, B., Franzke, C.W., Gastell, S., Gunther, K., Hoffmann, W., Holleczeck, B., Jagodzinski, A., Kaaks, R., Kluttig, A., Krause, G., Krist, L., Kuss, O., Lehnich, A.T., Leitzmann, M., Lieb, W., Löffler, M., Michels, K.B., Mikolajczyk, R., Peters, A., Schikowski, T., Schipf, S., Schmidt, B., Schulze, M., Volzke, H., Willich, S.N., Pischon, T. (2020). Erfassung selbst berichteter kardiovaskulärer und metabolischer Erkrankungen in der NAKO Gesundheitsstudie: Methoden und erste Ergebnisse. *Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz* 63,439-451. DOI: 10.1007/s00103-020-03108-9

Nguyen, M.T.H., Ott, J.J., Caputo, M., Keller-Stanislawski, B., Klett-Tammen, C.J., Linnig, S., Mentzer, D., Krause, G. (2020). User preferences for a mobile application to report adverse events following vaccination. *Pharmazie* 75,27-31. DOI: 10.1691/ph.2020.9734

Nimptsch, K., Jaeschke, L., Chang-Claude, J., Kaaks, R., Katzke, V., Michels, K.B., Franzke, C.W., Obi, N., Becher, H., Kuss, O., Schikowski, T., Schulze, M.B., Gastell, S., Hoffmann, W., Schipf, S., Ahrens, W., Gunther, K., Krist, L., Keil, T., Jockel, K.H., Schmidt, B., Brenner, H., Holleczeck, B., Fischer, B., Leitzmann, M., Lieb, W., Berger, K., Krause, G., Löffler, M., Schmidt-Pokrzywniak, A., Mikolajczyk, R., Linseisen, J., Greiser, K.H., Pischon, T. (2020). Selbstberichtete Krebserkrankungen in der NAKO Gesundheitsstudie: Erfassungsmethoden und erste Ergebnisse. *Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz* 63,385-396. DOI: 10.1007/s00103-020-03113-y

Peters, A., Rospleszcz, S., Greiser, K.H., Dallavalle, M., Berger, K., Complete list of authors available under: Collaborators. (2020). The Impact of the COVID-19 Pandemic on Self-Reported Health. *Dtsch Arztebl Int* 117,861-867. DOI: 10.3238/arztebl.2020.0861

Schmidt, C.O., Gunther, K.P., Goronzy, J., Albrecht, K., Chenot, J.F., Callhoff, J., Richter, A., Kasch, R., Ahrens, W., Becher, H., Berger, K., Brenner, H., Fischer, B., Franzke, C.W., Hoffmann, W., Holleczeck, B., Jaeschke, L., Jenning, C., Jockel, K.H., Kaaks, R., Keil, T., Kluttig, A., Krause, G., Kuss, O., Leitzmann, M., Lieb, W., Linseisen, J., Löffler, M., Meinke-Franze, C., Meisinger, C., Michels, K.B., Mikolajczyk, R., Obi, N., Peters, A., Pischon, T., Schikowski, T., Schipf, S., Specker, C., Volzke, H., Wirkner, K., Zink, A., Sander, O. (2020). Häufigkeiten muskuloskeletaler Symptome und Erkrankungen in der bevölkerungsbezogenen NAKO Gesundheitsstudie. *Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz* 63,415-425. DOI: 10.1007/s00103-020-03110-1

Silenou, B.C., Tom-Aba, D., Adeoye, O., Arinze, C.C., Oyiri, F., Suleman, A.K., Yinka-Ogunleye, A., Dörrbecker, J., Ihekweazu, C., Krause, G. (2020). Use of Surveillance Outbreak Response Management and Analysis System for Human Monkeypox Outbreak, Nigeria, 2017-2019. *Emerg Infect Dis* 26,345-349. DOI: 10.3201/eid2602.191139

Tom-Aba, D., Silenou, B.C., Doerrbecker, J., Fourie, C., Leitner, C., Wahnschaffe, M., Strysewske, M., Arinze, C.C., Krause, G. (2020). The Surveillance Outbreak Response Management and Analysis System (SORMAS): Digital Health Global Goods Maturity Assessment. *JMIR Public Health Surveill* 6,e15860. DOI: 10.2196/15860

Wiessner, C., Keil, T., Krist, L., Zeeb, H., Dragano, N., Schmidt, B., Ahrens, W., Berger, K., Castell, S., Fricke, J., Fuhrer, A., Gastell, S., Greiser, H., Guo, F., Jaeschke, L., Jochem, C., Jockel, K.H., Kaaks, R., Koch-Gallenkamp, L., Krause, G., Kuss, O., Legath, N., Leitzmann, M., Lieb, W., Meinke-Franze, C., Meisinger, C., Mikolajczyk, R., Obi, N., Pischon, T., Schipf, S., Schmoor, C., Schramm, S., Schulze, M.B., Sowarka, N., Waniek, S., Wigmann, C., Willich, S.N., Becher, H. (2020). Personen mit Migrationshintergrund in der NAKO Gesundheitsstudie - soziodemografische Merkmale und Vergleiche mit der autochthonen deutschen Bevölkerung. Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz *63*,279-289. DOI: 10.1007/s00103-020-03097-9

Habilitationen

Ott, J. (2020). Klinische und experimentelle Untersuchungen zur Optimierung der in vitro-Diagnostik allergischer Erkrankungen. Habilitationsschrift, Medizinische Hochschule Hannover, 2020

Promotionen

Chaw, P.S. (2020). Antibiotic use in The Gambia Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Lamping, F.B. (2019). Development and validation of a diagnostic model for early differentiation of sepsis and non-infectious SIRS in critically ill children : a data-driven approach using machine-learning algorithms. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Mbui, F.M. (2020). Immune escape of T-cell recognition by murine cytomegalovirus. Dissertation, Medizinische Hochschule Hannover, 2020

Abteilungsübergreifende Bereiche

Comprehensive Cancer Center-Niedersachsen (CCC-N)

Originalpublikationen

Reinke, E., Jürgens, H., Haier, J., Froehlich, B., Kontny, U., Rossig, C. (2020). Sektorenübergreifende Versorgung in der Pädiatrischen Onkologie: Qualitätssicherung durch neue Vergütungsmodelle für nicht-vollstationäre Leistungen. Klin Padiatr *232*,289-293. DOI: 10.1055/a-1158-9341

Editorials

Haier, J., Sleeman, J., Schäfers, J. (2020). Sociocultural incentives for cancer care implementation. Clin Exp Metastasis *37*,561-563. DOI: 10.1007/s10585-020-10050-2

DZIF: Deutsches Zentrum für Infektionsforschung

Originalpublikationen

Bankwitz, D., Bahai, A., Labuhn, M., Doepke, M., Ginkel, C., Khera, T., Todt, D., Ströh, L.J., Dold, L., Klein, F., Klawonn, F., Krey, T., Behrendt, P., Cornberg, M., McHardy, A.C., Pietschmann, T. (2021). Hepatitis C reference viruses highlight potent antibody responses and diverse viral functional interactions with neutralising antibodies Gut *70*,1734-1745. DOI: 10.1136/gutjnl-2020-321190

Behrens, G.M.N., Cossmann, A., Stankov, M.V., Schulte, B., Streeck, H., Förster, R., Bosnjak, B., Willenzon, S., Boeck, A.L., Thu Tran, A., Thiele, T., Graalman, T., Kayser, M.Z., Zychlinsky Scharff, A., Dopfer, C., Horke, A., Pink, I., Witte, T., Wetzke, M., Ernst, D., Jablonka, A., Happle, C. (2020). Strategic Anti-SARS-CoV-2 Serology Testing in a Low Prevalence Setting: The COVID-19 Contact (CoCo) Study in Healthcare Professionals Infect Dis Ther *9*,837-849. DOI: 10.1007/s40121-020-00334-1

Behrens, G.M.N., Cossmann, A., Stankov, M.V., Witte, T., Ernst, D., Happle, C., Jablonka, A. (2020). Perceived versus proven SARS-CoV-2-specific immune responses in health-care professionals Infection *48*,631-634. DOI: 10.1007/s15010-020-01461-0

- Bendix, M.C., Stephan, M., Nöhre, M., Wunsch-Leiteritz, W., Schmidt, H., Tiegs, G., Harder, J., de Zwaan, M. (2020). Antimicrobial peptides in patients with anorexia nervosa: comparison with healthy controls and the impact of weight gain. *Sci Rep* *10*,22223. DOI: 10.1038/s41598-020-79302-1
- Blockus, S., Sake, S.M., Wetzke, M., Grethe, C., Graalman, T., Pils, M., Le Goffic, R., Galloux, M., Prochnow, H., Rox, K., Hüttel, S., Rupcic, Z., Wiegmann, B., Dijkman, R., Rameix-Welti, M.A., Eleouet, J.F., Duprex, W.P., Thiel, V., Hansen, G., Brönstrup, M., Haid, S., Pietschmann, T. (2020). Labyrinthopeptins as virolytic inhibitors of respiratory syncytial virus cell entry *Antiviral Res* *177*,104774. DOI: 10.1016/j.antiviral.2020.104774
- Bodda, C., Reinert, L.S., Fruhwürth, S., Richardo, T., Sun, C., Zhang, B.C., Kalamvoki, M., Pohlmann, A., Mogensen, T.H., Bergstrom, P., Agholme, L., O'Hare, P., Sodeik, B., Gyrd-Hansen, M., Zetterberg, H., Paludan, S.R. (2020). HSV1 VP1-2 deubiquitinates STING to block type I interferon expression and promote brain infection. *J Exp Med* *217*,e20191422 [pii]. DOI: 10.1084/jem.20191422
- Bosnjak, B., Stein, S.C., Willenzon, S., Cordes, A.K., Puppe, W., Bernhardt, G., Ravens, I., Ritter, C., Schultze-Florey, C.R., Gödecke, N., Martens, J., Kleine-Weber, H., Hoffmann, M., Cossmann, A., Yilmaz, M., Pink, I., Hoeper, M.M., Behrens, G.M.N., Pöhlmann, S., Blasczyk, R., Schulz, T.F., Forster, R. (2021). Low serum neutralizing anti-SARS-CoV-2 S antibody levels in mildly affected COVID-19 convalescent patients revealed by two different detection methods *Cell Mol Immunol* *18*,936-944. DOI: 10.1038/s41423-020-00573-9
- Brown, R.J.P., Tegtmeyer, B., Sheldon, J., Khera, T., Anggakusuma, Todt, D., Vieyres, G., Weller, R., Joecks, S., Zhang, Y., Sake, S., Bankwitz, D., Welsch, K., Ginkel, C., Engelmann, M., Gerold, G., Steinmann, E., Yuan, Q., Ott, M., Vondran, F.W.R., Krey, T., Ströh, L.J., Miskey, C., Ivics, Z., Herder, V., Baumgärtner, W., Lauber, C., Seifert, M., Tarr, A.W., McClure, C.P., Randall, G., Baktash, Y., Ploss, A., Thi, V.L.D., Michailidis, E., Saeed, M., Verhoye, L., Meuleman, P., Goedecke, N., Wirth, D., Rice, C.M., Pietschmann, T. (2020). Liver-expressed Cd302 and Cr11 limit hepatitis C virus cross-species transmission to mice *Sci Adv* *6*,DOI: 10.1126/sciadv.abd3233
- Dopfer, C., Wetzke, M., Zychlinsky Scharff, A., Mueller, F., Dressler, F., Baumann, U., Sasse, M., Hansen, G., Jablonka, A., Happle, C. (2020). COVID-19 related reduction in pediatric emergency healthcare utilization - a concerning trend. *BMC Pediatr* *20*,427. DOI: 10.1186/s12887-020-02303-6
- Elsner, C., Ponnurangam, A., Kazmierski, J., Zillinger, T., Jansen, J., Todt, D., Döhner, K., Xu, S., Ducroux, A., Kriedemann, N., Malassa, A., Larsen, P.K., Hartmann, G., Barchet, W., Steinmann, E., Kalinke, U., Sodeik, B., Goffinet, C. (2020). Absence of cGAS-mediated type I IFN responses in HIV-1-infected T cells *Proc Natl Acad Sci U S A* *117*,19475-19486. DOI: 10.1073/pnas.2002481117
- Galeev, A., Suwandi, A., Bakker, H., Oktiviyari, A., Routier, F.H., Krone, L., Hensel, M., Grassl, G.A. (2020). Proteoglycan-Dependent Endo-Lysosomal Fusion Affects Intracellular Survival of Salmonella Typhimurium in Epithelial Cells. *Front Immunol* *11*,731. DOI: 10.3389/fimmu.2020.00731
- Gunesch, A.P., Zapatero-Belinchon, F.J., Pinkert, L., Steinmann, E., Manns, M.P., Schneider, G., Pietschmann, T., Brönstrup, M., von Hahn, T. (2020). Filovirus antiviral activity of cationic amphiphilic drugs is associated with lipophilicity and ability to induce phospholipidosis *Antimicrob Agents Chemother* *64*,e00143-20. DOI: 10.1128/AAC.00143-20
- Hahn, K., Pollmann, L., Nowak, J., Nguyen, A.H.H., Haake, K., Neehus, A.L., Waqas, S.F.H., Pessler, F., Baumann, U., Hetzel, M., Casanova, J.L., Schulz, A., Bustamante, J., Ackermann, M., Lachmann, N. (2020). Human Lentiviral Gene Therapy Restores the Cellular Phenotype of Autosomal Recessive Complete IFN-gammaR1 Deficiency *Mol Ther Methods Clin Dev* *17*,785-795. DOI: 10.1016/j.omtm.2020.04.002
- Horstmann, J.A., Lunelli, M., Cazzola, H., Heidemann, J., Kuhne, C., Steffen, P., Szefs, S., Rossi, C., Lokareddy, R.K., Wang, C., Lemaire, L., Hughes, K.T., Uetrecht, C., Schlüter, H., Grassl, G.A., Stradal, T.E.B., Rossez, Y., Kolbe, M., Erhardt, M. (2020). Methylation of Salmonella Typhimurium flagella promotes bacterial adhesion and host cell invasion. *Nat Commun* *11*,2013. DOI: 10.1038/s41467-020-15738-3
- Kopfnagel, V., Dreyer, S., Baumert, K., Stark, M., Harder, J., Hofmann, K., Kleine, M., Buch, A., Sodeik, B., Werfel, T. (2020). RNase 7 promotes sensing of self-DNA by human keratinocytes and activates an antiviral immune response *J Invest Dermatol* *140*,1589-1598.e3. DOI: 10.1016/j.jid.2019.09.029
- Müller, F., Hummers, E., Hillermann, N., Dopfer, C., Jablonka, A., Friede, T., Simmenroth, A., Wetzke, M. (2020). Factors Influencing the Frequency of Airway Infections in Underage Refugees: A Retrospective, Cross Sectional Study. *Int J Environ Res Public Health* *17*,DOI: 10.3390/ijerph17186823
- Sogkas, G., Dubrowinskaja, N., Adriawan, I.R., Anim, M., Witte, T., Schmidt, R.E., Atschekzei, F. (2020). High frequency of variants in genes associated with primary immunodeficiencies in patients with rheumatic diseases with secondary hypogammaglobulinaemia *Ann Rheum Dis* DOI: 10.1136/annrheumdis-2020-218280

Solbach, P., Chhatwal, P., Woltemate, S., Tacconelli, E., Buhl, M., Autenrieth, I.B., Vehreschild, M.J.G.T., Jazmati, N., Gerhard, M., Stein-Thoeringer, C.K., Rupp, J., Ulm, K., Ott, A., Lasch, F., Koch, A., Manns, M.P., Suerbaum, S., Bachmann, O. (2021). Microbiota-associated risk factors for *C. difficile* acquisition in hospitalized patients: A prospective, multicentric study. *Clin Infect Dis* *73*,e2625-e2634. DOI: 10.1093/cid/ciaa871

Tewes, S., Hensen, B., Jablonka, A., Gawe, D., Kastikainen, M., Happle, C., Carlens, J., Berthold, L.D., Wacker, F. (2020). Tuberculosis screening during the 2015 European refugee crisis *BMC Public Health* *20*,200. DOI: 10.1186/s12889-020-8303-y

Theobald, S.J., Kreer, C., Khailaie, S., Bonifacius, A., Eiz-Vesper, B., Figueiredo, C., Mach, M., Backovic, M., Ballmaier, M., Koenig, J., Olbrich, H., Schneider, A., Volk, V., Danisch, S., Gieselmann, L., Ercanoglu, M.S., Messerle, M., Kaisenberg, C.V., Witte, T., Klawonn, F., Meyer-Hermann, M., Klein, F., Striepecke, R. (2020). Repertoire characterization and validation of gB-specific human IgGs directly cloned from humanized mice vaccinated with dendritic cells and protected against HCMV *PLoS Pathog* *16*,e1008560. DOI: 10.1371/journal.ppat.1008560

Weckmann, M., Thiele, D., Liboschik, L., Bahmer, T., Pech, M., Dittrich, A.M., Fuchs, O., Happle, C., Schaub, B., Ricklefs, I., Rabe, K.F., von Mutius, E., Hansen, G., König, I.R., Kopp, M.V., ALLIANCE Study Group. (2021). Cytokine levels in children and adults with wheezing and asthma show specific patterns of variability over time. *Clin Exp Immunol* *204*,152-164. DOI: 10.1111/cei.13550

Zychlinsky Scharff, A., Schwerk, N., Baumann, U., Burmester, H., Carlens, J., Dopfer, C., Grewendorf, S., Mueller, C., Schütz, K., Voelker, M., Hansen, G., Happle, C., Wetzke, M. (2020). An apple a day won't keep the doctor away: presentation, treatment, and outcome in pediatric apple aspirations. *Pediatr Pulmonol* *55*,1697-1704. DOI: 10.1002/ppul.24768

Übersichtsarbeiten

Alvarado, A., Behrens, W., Josenhans, C. (2020). Protein Activity Sensing in Bacteria in Regulating Metabolism and Motility. *Front Microbiol* *10*,3055. DOI: 10.3389/fmicb.2019.03055

Letter

Sogkas, G., Hirsch, S., Jablonka, A., Witte, T., Schmidt, R.E., Atsckezei, F. (2020). Dupilumab to treat severe atopic dermatitis in autosomal dominant hyper-IgE syndrome. *Clin Immunol* *215*,108452. DOI: 10.1016/j.clim.2020.108452

Vorträge

Becker, A.L., Ehrhardt, K., Matern, M., Grassl, G.A. (2020). SPI-1 translocated effectors prolong the intracellular survival of *Salmonella* Typhimurium in macrophages. DGHM Jahrestagung 2020, 08.-11.03.2020, Leipzig.

Suwandi, A., Galeev, A., Sharma, S., Seeger, K., Braun, J., Ring, D., Stecher, B., Blaut, M., Loh, G., Grassl, G.A. (2020). *Akkermansia muciniphila* reduces bacterial colonization and intestinal inflammation by inhibiting the adhesion of *Salmonella* to epithelial cells. DGHM Jahrestagung 2020, 08.-11.03.2020, Leipzig.

DZL: Lungenforschung – 6876

Originalpublikationen

Ackermann, M., Haake, K., Kempf, H., Kaschnig, P., Weiss, A.C., Nguyen, A.H.H., Abeln, M., Merkert, S., Kühnel, M.P., Hartmann, D., Jonigk, D., Thum, T., Kispert, A., Milsom, M.D., Lachmann, N. (2021). A 3D iPSC-differentiation model identifies interleukin-3 as a regulator of early human hematopoietic specification *Haematologica* *106*,1354-1367. DOI: 10.3324/haematol.2019.228064

Ackermann, M., Verleden, S.E., Kühnel, M., Haverich, A., Welte, T., Laenger, F., Vanstapel, A., Werlein, C., Stark, H., Tzankov, A., Li, W.W., Li, V.W., Mentzer, S.J., Jonigk, D. (2020). Pulmonary Vascular Endothelialitis, Thrombosis, and Angiogenesis in Covid-19. *N Engl J Med* *383*,120-128. DOI: 10.1056/NEJMoa2015432

Ahrendt, N., Steingrüber, T., Rajces, A., Lopez-Rodriguez, E., Eisenberg, T., Magnes, C., Madeo, F., Sedej, S., Schmiedl, A., Ochs, M., Mühlfeld, C., Schipke, J. (2020). Spermidine supplementation and voluntary activity differentially affect obesity-related structural changes in the mouse lung *Am J Physiol Lung Cell Mol Physiol* *319*,L312-L324. DOI: 10.1152/ajplung.00423.2019

- Albert, K., Krischer, J.M., Pfaffenroth, A., Wilde, S., Lopez-Rodriguez, E., Braun, A., Smith, B.J., Knudsen, L. (2020).Hidden Microatelectases Increase Vulnerability to Ventilation-Induced Lung Injury. *Front Physiol* *11*,530485. DOI: 10.3389/fphys.2020.530485
- Alter, P., Orszag, J., Kellerer, C., Kahnert, K., Speicher, T., Watz, H., Bals, R., Welte, T., Vogelmeier, C.F., Jörres, R.A. (2020).Prediction of air trapping or pulmonary hyperinflation by forced spirometry in COPD patients: results from COSYCONET. *ERJ Open Res* *6*,00092-2020. DOI: 10.1183/23120541.00092-2020
- Arens, J., Grottko, O., Haverich, A., Maier, L.S., Schmitz-Rode, T., Steinseifer, U., Wendel, H.P., Rossaint, R. (2020).Toward a Long-Term Artificial Lung ASAIO J *66*,847-854. DOI: 10.1097/MAT.0000000000001139
- Aydin, M., Naumova, E.A., Lutz, S., Meyer-Bahlburg, A., Arnold, W.H., Kreppel, F., Ehrhardt, A., Postberg, J., Wirth, S. (2020).Do Current Asthma-Preventive Measures Appropriately Face the World Health Organization's Concerns: A Study Presentation of a New Clinical, Prospective, Multicentric Pediatric Asthma Exacerbation Cohort in Germany *Front Pediatr* *8*,574462. DOI: 10.3389/fped.2020.574462
- Baerlecken, N., Pursche, N., Witte, T., Kniesch, K., Höpfner, M., Ernst, D., Moosig, F., Seeliger, B., Prasse, A. (2020).Presence of Antibodies Binding to Negative Elongation Factor E in Sarcoidosis *J Clin Med* *9*,DOI: 10.3390/jcm9030715
- Becker, T., Pich, A., Tamm, S., Hedtfeld, S., Ibrahim, M., Altmüller, J., Dalibor, N., Toliat, M.R., Janciauskiene, S., Tümmler, B., Stanke, F. (2020).Genetic information from discordant sibling pairs points to ESRP2 as a candidate trans-acting regulator of the CF modifier gene SCNN1B *Sci Rep* *10*,22447. DOI: 10.1038/s41598-020-79804-y
- Behr, J., Prasse, A., Wirtz, H., Koschel, D., Pittrow, D., Held, M., Klotsche, J., Andreas, S., Claussen, M., Grohe, C., Wilkens, H., Hagmeyer, L., Skowasch, D., Meyer, J.F., Kirschner, J., Gläser, S., Kahn, N., Welte, T., Neurohr, C., Schwaiblmair, M., Bahmer, T., Oqueka, T., Frankenberg, M., Kreuter, M. (2020).Survival and course of lung function in the presence or absence of antifibrotic treatment in patients with idiopathic pulmonary fibrosis: long-term results of the INSIGHTS-IPF registry *Eur Respir J* *56*,DOI: 10.1183/13993003.02279-2019
- Behrens, G.M.N., Cossmann, A., Stankov, M.V., Schulte, B., Streeck, H., Förster, R., Bosnjak, B., Willenzon, S., Boeck, A.L., Thu Tran, A., Thiele, T., Graalman, T., Kayser, M.Z., Zychlinsky Scharff, A., Dopfer, C., Horke, A., Pink, I., Witte, T., Wetzke, M., Ernst, D., Jablonka, A., Happle, C. (2020).Strategic Anti-SARS-CoV-2 Serology Testing in a Low Prevalence Setting: The COVID-19 Contact (CoCo) Study in Healthcare Professionals *Infect Dis Ther* *9*,837-849. DOI: 10.1007/s40121-020-00334-1
- Behrens, G.M.N., Cossmann, A., Stankov, M.V., Witte, T., Ernst, D., Happle, C., Jablonka, A. (2020).Perceived versus proven SARS-CoV-2-specific immune responses in health-care professionals *Infection* *48*,631-634. DOI: 10.1007/s15010-020-01461-0
- Benza, R.L., Corris, P.A., Klinger, J.R., Langleben, D., Naeije, R., Simonneau, G., Ghofrani, H.A., Jansa, P., Rosenkranz, S., Scelsi, L., Theppan, T., Raina, A., Meier, C., Busse, D., Hoeper, M.M. (2020).Identifying potential parameters associated with response to switching from a PDE5i to riociguat in RESPITE *Int J Cardiol* *317*,188-192. DOI: 10.1016/j.ijcard.2020.05.044
- Blockus, S., Sake, S.M., Wetzke, M., Grethe, C., Graalman, T., Pils, M., Le Goffic, R., Galloux, M., Prochnow, H., Rox, K., Hüttel, S., Rupcic, Z., Wiegmann, B., Dijkman, R., Rameix-Welti, M.A., Eleouet, J.F., Duprex, W.P., Thiel, V., Hansen, G., Brönstrup, M., Haid, S., Pietschmann, T. (2020).Labyrinthopeptins as virolytic inhibitors of respiratory syncytial virus cell entry *Antiviral Res* *177*,104774. DOI: 10.1016/j.antiviral.2020.104774
- Boesch, M., Baty, F., Brutsche, M.H., Tamm, M., Roux, J., Knudsen, L., Gazdhar, A., Geiser, T., Khan, P., Hostettler, K.E. (2020).Transcriptomic profiling reveals disease-specific characteristics of epithelial cells in idiopathic pulmonary fibrosis *Respir Res* *21*,165. DOI: 10.1186/s12931-020-01414-z
- Bojkova, D., Bechtel, M., McLaughlin, K.M., McGreig, J.E., Klann, K., Bellinghausen, C., Rohde, G., Jonigk, D., Braubach, P., Ciesek, S., Münch, C., Wass, M.N., Michaelis, M., Cinatl, J., Jr. (2020).Aprotinin Inhibits SARS-CoV-2 Replication *Cells* *9*,2377. DOI: 10.3390/cells9112377
- Bormann, T., Maus, R., Stolper, J., Jonigk, D., Welte, T., Gaudie, J., Kolb, M.R., Maus, U.A. (2021).Role of the COX2-PGE2 axis in S. pneumoniae induced exacerbation of experimental fibrosis. *Am J Physiol Lung Cell Mol Physiol* *320*,L377-L392. DOI: 10.1152/ajplung.00024.2020
- Bosnjak, B., Stein, S.C., Willenzon, S., Cordes, A.K., Puppe, W., Bernhardt, G., Ravens, I., Ritter, C., Schultze-Florey, C.R., Gödecke, N., Martens, J., Kleine-Weber, H., Hoffmann, M., Cossmann, A., Yilmaz, M., Pink, I., Hoeper, M.M., Behrens, G.M.N., Pöhlmann, S., Blasczyk, R., Schulz, T.F., Forster, R. (2021).Low serum neutralizing anti-SARS-CoV-2 S antibody levels in mildly affected COVID-19 convalescent patients revealed by two different detection methods *Cell Mol Immunol* *18*,936-944. DOI: 10.1038/s41423-020-00573-9

Brinkert, K., Hedtfeld, S., Burhop, A., Gastmeier, R., Gad, P., Wedekind, D., Kloth, C., Rothschild, J., Lachmann, N., Hetzel, M., Jirmo, A.C., Lopez-Rodriguez, E., Brandenberger, C., Hansen, G., Schambach, A., Ackermann, M., Tümmeler, B., Munder, A. (2021). Rescue from *Pseudomonas aeruginosa* airway infection via stem cell transplantation *Mol Ther* *29*,1324-1334. DOI: 10.1016/j.ymthe.2020.12.003

Brown, K.K., Martinez, F.J., Walsh, S.L.F., Thannickal, V.J., Prasse, A., Schlenker-Herceg, R., Goeldner, R.G., Clerisme-Beaty, E., Tetzlaff, K., Cottin, V., Wells, A.U. (2020). The natural history of progressive fibrosing interstitial lung diseases *Eur Respir J* *55*, DOI: 10.1183/13993003.00085-2020

Burney, P., Patel, J., Minelli, C., Gnatiuc, L., Amaral, A.F.S., Kocabas, A., Cherkaski, H.H., Gulsvik, A., Nielsen, R., Bateman, E., Jithoo, A., Mortimer, K., Sooronbaev, T.M., Lawin, H., Nejari, C., Elbiaze, M., El Rhazi, K., Zheng, J.P., Ran, P., Welte, T., Obaseki, D., Erhabor, G., Elsony, A., Osman, N.B., Ahmed, R., Nizankowska-Mogilnicka, E., Mejza, F., Mannino, D.M., Barbara, C., Wouters, E.F.M., Idolor, L.F., Loh, L.C., Rashid, A., Juvekar, S., Gislason, T., Al Ghobain, M., Studnicka, M., Harrabi, I., Denguezli, M., Koul, P.A., Jenkins, C., Marks, G., Jogi, R., Hafizi, H., Janson, C., Tan, W.C., Aquart-Stewart, A., Mbatchou, B., Nafees, A., Gunasekera, K., Seemungal, T., Padukudru Anand, M., Enright, P., Vollmer, W.M., Blangiardo, M., Elfadaly, F.G., Buist, A.S. (2020). Prevalence and Population Attributable Risk for Chronic Airflow Obstruction in a Large Multinational Study. *Am J Respir Crit Care Med* *203*,1353-1365. DOI: 10.1164/rccm.202005-1990OC

Calabrese, F., Schiavon, M., Perissinotto, E., Lunardi, F., Marulli, G., Di Gregorio, G., Pezzuto, F., Edith Vuljan, S., Forin, E., Wiegmann, B., Jonigk, D., Warnecke, G., Rea, F. (2020). Organ Care System Lung resulted in lower apoptosis and iNOS expression in donor lungs. *Am J Transplant* *20*,3639-3648. DOI: 10.1111/ajt.16187

Carleo, A., Landi, C., Prasse, A., Bergantini, L., D'Alessandro, M., Cameli, P., Janciauskiene, S., Rottoli, P., Bini, L., Bargagli, E. (2020). Proteomic characterization of idiopathic pulmonary fibrosis patients: stable versus acute exacerbation *Monaldi Arch Chest Dis* *90*, DOI: 10.4081/monaldi.2020.1231

Couch, M.J., Munidas, S., Rayment, J.H., Voskrebenev, A., Seethamraju, R.T., Vogel-Claussen, J., Ratjen, F., Santyr, G. (2021). Comparison of Functional Free-Breathing Pulmonary (1)H and Hyperpolarized (129)Xe Magnetic Resonance Imaging in Pediatric Cystic Fibrosis. *Acad Radiol* *28*,e209-e218. DOI: 10.1016/j.acra.2020.05.008

Czerner, C.P., Schoenfeld, C., Cebotari, S., Renne, J., Kaireit, T.F., Winther, H.B., Pöhler, G.H., Olsson, K.M., Hoepfer, M.M., Wacker, F., Vogel-Claussen, J. (2020). Perioperative CTEPH patient monitoring with 2D phase-contrast MRI reflects clinical, cardiac and pulmonary perfusion changes after pulmonary endarterectomy *PLoS One* *15*,e0238171. DOI: 10.1371/journal.pone.0238171

Dahlmann, J., Sahabian, A., Drick, N., Haase, A., Göhring, G., Lachmann, N., Ringshausen, F.C., Welte, T., Martin, U., Olmer, R. (2020). Generation of two hiPSC lines (MHHi016-A, MHHi016-B) from a primary ciliary dyskinesia patient carrying a homozygous 5 bp duplication (c.248_252dup (p.Gly85Cysfs*11)) in exon 1 of the CCNO gene. *Stem Cell Res* *46*,101850. DOI: 10.1016/j.scr.2020.101850

d'Alessandro, M., Bergantini, L., Perrone, A., Cameli, P., Cameli, M., Prasse, A., Platrotti, D., Sestini, P., Bargagli, E. (2020). Serial investigation of Angiotensin-Converting Enzyme in sarcoidosis patients treated with Angiotensin-Converting Enzyme Inhibitor *Eur J Intern Med* *78*,58-62. DOI: 10.1016/j.ejim.2020.04.006

Danov, O., Wolff, M., Bartel, S., Böhlen, S., Obernolte, H., Wronski, S., Jonigk, D., Hammer, B., Kovacevic, D., Reuter, S., Krauss-Etshmann, S., Sewald, K. (2020). Cigarette Smoke Affects Dendritic Cell Populations, Epithelial Barrier Function, and the Immune Response to Viral Infection With H1N1 *Front Med (Lausanne)* *7*,571003. DOI: 10.3389/fmed.2020.571003

Derlin, K., Hellms, S., Gutberlet, M., Peperhove, M., Jang, M.S., Greite, R., Hartung, D., Derlin, T., Fegbeutel, C., Tudorache, I., Jüttner, B., Wiese, B., Lichtinghagen, R., Haller, H., Haverich, A., Wacker, F., Warnecke, G., Gueller, F. (2020). Application of MR diffusion imaging for non-invasive assessment of acute kidney injury after lung transplantation *Medicine (Baltimore)* *99*,e22445. DOI: 10.1097/MD.00000000000022445

Derlin, T., Jaeger, B., Jonigk, D., Apel, R., Freise, J., Shin, H.O., Weiberg, D., Warnecke, G., Ross, T.L., Wester, H.J., Seeliger, B., Welte, T., Bengel, F.M., Prasse, A. (2021). Clinical Molecular Imaging of Pulmonary CXCR4 Expression to Predict Outcome of Pirfenidone Treatment in Idiopathic Pulmonary Fibrosis *Chest* *159*,1094-1106. DOI: 10.1016/j.chest.2020.08.2043

Dillard, K.J., Ochs, M., Niskanen, J.E., Arumilli, M., Donner, J., Kyöstila, K., Hytönen, M.K., Anttila, M., Lohi, H. (2020). Recessive missense LAMP3 variant associated with defect in lamellar body biogenesis and fatal neonatal interstitial lung disease in dogs *PLoS Genet* *16*,e1008651. DOI: 10.1371/journal.pgen.1008651

Dona, D., Torres Canizales, J., Benetti, E., Cananzi, M., De Corti, F., Calore, E., Hierro, L., Ramos Boluda, E., Melgosa Hijosa, M., Garcia Guereta, L., Perez Martinez, A., Barrios, M., Costa Reis, P., Teixeira, A., Lopes, M.F., Kalicinski, P., Branchereau, S., Boyer, O., Debray, D., Sciveres, M., Wennberg, L., Fischler, B., Barany, P., Baker, A., Baumann, U., Schwerk, N., Nicastro, E., Candusso, M., Toporski, J., Sokal,

- E., Stephenne, X., Lindemans, C., Miglinas, M., Rascon, J., Jara, P., ERN TransplantChild. (2020). Pediatric transplantation in Europe during the COVID-19 pandemic: Early impact on activity and healthcare Clin Transplant 34,e14063. DOI: 10.1111/ctr.14063
- Dopfer, C., Wetzke, M., Zychlinsky Scharff, A., Mueller, F., Dressler, F., Baumann, U., Sasse, M., Hansen, G., Jablonka, A., Happle, C. (2020). COVID-19 related reduction in pediatric emergency healthcare utilization - a concerning trend. BMC Pediatr 20,427. DOI: 10.1186/s12887-020-02303-6
- Drick, N., Dahlmann, J., Sahabian, A., Haase, A., Göhring, G., Lachmann, N., Ringshausen, F.C., Welte, T., Martin, U., Olmer, R. (2020). Generation of two human induced pluripotent stem cell lines (MHHi017-A, MHHi017-B) from a patient with primary ciliary dyskinesia carrying a homozygous mutation (c.7915C > T [p.Arg2639*]) in the DNAH5 gene. Stem Cell Res 46,101848. DOI: 10.1016/j.scr.2020.101848
- Drick, N., Milger, K., Seeliger, B., Fuge, J., Korn, S., Buhl, R., Schuhmann, M., Herth, F., Kendziora, B., Behr, J., Kneidinger, N., Bergmann, K.C., Taube, C., Welte, T., Suhling, H. (2020). Switch from IL-5 to IL-5-Receptor alpha Antibody Treatment in Severe Eosinophilic Asthma. J Asthma Allergy 13,605-614. DOI: 10.2147/JAA.S270298
- Duerr, J., Leitz, D.H.W., Szczygiel, M., Dvornikov, D., Fraumann, S.G., Kreutz, C., Zadora, P.K., Seyhan Agircan, A., Konietzke, P., Engelmann, T.A., Hegermann, J., Mulugeta, S., Kawabe, H., Knudsen, L., Ochs, M., Rotin, D., Muley, T., Kreuter, M., Herth, F.J.F., Wielpütz, M.O., Beers, M.F., Klingmüller, U., Mall, M.A. (2020). Conditional deletion of Nedd4-2 in lung epithelial cells causes progressive pulmonary fibrosis in adult mice Nat Commun 11,2012. DOI: 10.1038/s41467-020-15743-6
- Eckermann, M., Frohn, J., Reichardt, M., Osterhoff, M., Sprung, M., Westermeier, F., Tzankov, A., Werlein, C., Kuhnel, M., Jonigk, D., Saltditt, T. (2020). 3D virtual pathohistology of lung tissue from Covid-19 patients based on phase contrast X-ray tomography. Elife 9,eLife.60408. DOI: 10.7554/eLife.60408
- Ferraz Cavalcanti, P.E., Sa, M.P.B.O., Lins, R.F.A., Cavalcanti, C.V., Lima, R.C., Cvitkovic, T., Bobylev, D., Boethig, D., Beerbaum, P., Sarikouch, S., Haverich, A., Horke, A. (2020). Three-step preoperative sequential planning for pulmonary valve replacement in repaired tetralogy of Fallot using computed tomography Eur J Cardiothorac Surg 59,333-340. DOI: 10.1093/ejcts/ezaa346
- Findeisen, K., Morticelli, L., Goecke, T., Kolbeck, L., Ramm, R., Höffler, H.K., Brandes, G., Korossis, S., Haverich, A., Hilfiker, A. (2020). Toward acellular xenogeneic heart valve prostheses: Histological and biomechanical characterization of decellularized and enzymatically deglycosylated porcine pulmonary heart valve matrices Xenotransplantation 27,e12617. DOI: 10.1111/xen.12617
- Fischer, S., Dethlefsen, S., Klockgether, J., Tümmler, B. (2020). Phenotypic and Genomic Comparison of the Two Most Common ExoU-Positive Pseudomonas aeruginosa Clones, PA14 and ST235 mSystems 5,20-20. DOI: 10.1128/mSystems.01007-20
- Glandorf, J., Klimes, F., Voskrebenez, A., Gutberlet, M., Behrendt, L., Crisosto, C., Wacker, F., Ciet, P., Wild, J.M., Vogel-Claussen, J. (2020). Comparison of phase-resolved functional lung (PREFUL) MRI derived perfusion and ventilation parameters at 1.5T and 3T in healthy volunteers PLoS One 15,DOI: 10.1371/journal.pone.0244638
- Greer, M., Welte, T. (2020). Chronic Obstructive Pulmonary Disease and Lung Transplantation Semin Respir Crit Care Med 41,862-873. DOI: 10.1055/s-0040-1714250
- Greimelmaier, K., Wohlschläger, J., Probst, A., Hager, T., Wardelmann, E., Werlein, C., Jonigk, D., Müller, K.M. (2020). Mesotheliale Proliferate der Tunica vaginalis testis. Pathologe 41,406-410. DOI: 10.1007/s00292-020-00797-6
- Greulich, T., Altraja, A., Barrecheguren, M., Bals, R., Chlumsky, J., Chorostowska-Wynimko, J., Clarenbach, C., Corda, L., Corsico, A.G., Ferrarotti, I., Esquinas, C., Gouder, C., Hecimovic, A., Ilic, A., Ivanov, Y., Janciauskiene, S., Janssens, W., Kohler, M., Krams, A., Lara, B., Mahadeva, R., McElvaney, G., Mornex, J.F., O'Hara, K., Parr, D., Piitulainen, E., Schmid-Scherzer, K., Seersholm, N., Stockley, R.A., Stolk, J., Sucena, M., Tanash, H., Turner, A., Ulmeanu, R., Wilkens, M., Yorgancioglu, A., Zaharie, A., Miravittles, M. (2020). Protocol for the EARCO Registry: a pan-European observational study in patients with alpha1-antitrypsin deficiency ERJ Open Res 6,DOI: 10.1183/23120541.00181-2019
- Griese, M., Costa, S., Linnemann, R.W., Mall, M.A., McKone, E.F., Polineni, D., Quon, B.S., Ringshausen, F.C., Taylor-Cousar, J.L., Withers, N.J., Moskowitz, S.M., Daines, C.L. (2021). Safety and Efficacy of Elexacaftor/Tezacaftor/Ivacaftor for 24 Weeks or Longer in People with Cystic Fibrosis and One or More F508del Alleles: Interim Results of an Open-Label Phase 3 Clinical Trial. Am J Respir Crit Care Med 203,381-385. DOI: 10.1164/rccm.202008-3176LE
- Griese, M., Köhler, M., Witt, S., Sebah, D., Kappler, M., Wetzke, M., Schwerk, N., Emiralioglu, N., Kiper, N., Kronfeld, K., Ruckes, C., Rock, H., Anthony, G., Seidl, E. (2020). Prospective evaluation of hydroxychloroquine in pediatric interstitial lung diseases: Study protocol for an investigator-initiated, randomized controlled, parallel-group clinical trial. Trials 21,307. DOI: 10.1186/s13063-020-4188-4

- Grothausmann, R., Labode, J., Hernandez-Cerdan, P., Haberthür, D., Hlushchuk, R., Lobachev, O., Brandenberger, C., Gie, A.G., Salaets, T., Toelen, J., Wagner, W.L., Mühlfeld, C. (2021). Combination of microCT and light microscopy for generation-specific stereological analysis of pulmonary arterial branches: a proof-of-concept study *Histochem Cell Biol* 155,227-239. DOI: 10.1007/s00418-020-01946-x
- Habener, A., Happle, C., Grychtol, R.M., Skuljec, J., Busse, M., Dalüge, K., Obernolte, H., Sewald, K., Braun, A., Meyer-Bahlburg, A., Hansen, G. (2021). Regulatory B cells control airway hyperreactivity and lung remodeling in a murine asthma model *J Allergy Clin Immunol* 147,2281-2294.e7. DOI: 10.1016/j.jaci.2020.09.041
- Hagner, M., Albrecht, M., Guerra, M., Braubach, P., Halle, O., Zhou-Suckow, Z., Butz, S., Jonigk, D., Hansen, G., Schultz, C., Dittrich, A.M., Mall, M.A. (2021). IL-17A from innate and adaptive lymphocytes contributes to inflammation and damage in cystic fibrosis lung disease. *Eur Respir J* 57,1900716. DOI: 10.1183/13993003.00716-2019
- Harbaum, L., Fuge, J., Kamp, J.C., Hennigs, J.K., Simon, M., Sinning, C., Oqueka, T., Grimminger, J., Olsson, K.M., Hoepfer, M.M., Klose, H. (2020). Blood carbon dioxide tension and risk in pulmonary arterial hypertension. *Int J Cardiol* 318,131-137. DOI: 10.1016/j.ijcard.2020.06.069
- Harrison, T., Canonica, G.W., Chupp, G., Lee, J., Schleich, F., Welte, T., Valero, A., Gemzoe, K., Maxwell, A., Joksaite, S., Yang, S., Howarth, P., Van Dyke, M.K. (2020). Real-world mepolizumab in the prospective severe asthma REALITI-A study: initial analysis *Eur Respir J* 56, DOI: 10.1183/13993003.00151-2020
- Henderson, B., Ruszkiewicz, D.M., Wilkinson, M., Beauchamp, J.D., Cristescu, S.M., Fowler, S.J., Salman, D., Francesco, F.D., Koppen, G., Langejürgen, J., Holz, O., Hadjithekli, A., Moreno, S., Pedrotti, M., Sinues, P., Slingers, G., Wilde, M., Lomonaco, T., Zanella, D., Zenobi, R., Focant, J.F., Grassin-Delyle, S., Franchina, F.A., Malásková, M., Stefanuto, P.H., Pugliese, G., Mayhew, C., Thomas, C.L.P. (2020). A benchmarking protocol for breath analysis: the peppermint experiment. *J Breath Res* 14,046008. DOI: 10.1088/1752-7163/aba130
- Hoepfer, M.M., Gomez Sanchez, M.A., Humbert, M., Pittrow, D., Simonneau, G., Gall, H., Grünig, E., Klose, H., Halank, M., Langleben, D., Snijder, R.J., Escibano Subias, P., Mielniczuk, L.M., Lange, T.J., Vachieri, J.L., Wirtz, H., Halmersen, D.S., Tsangaris, I., Barbera, J.A., Pepke-Zaba, J., Boonstra, A., Rosenkranz, S., Ulrich, S., Steringer-Mascherbauer, R., Delcroix, M., Jansa, P., Simkova, I., Giannakoulas, G., Klotsche, J., Williams, E., Meier, C., Ghofrani, H.A., Collaborators list. (2020). Riociguat treatment in patients with pulmonary arterial hypertension: Final safety data from the EXPERT registry *Respir Med* 177,106241. DOI: 10.1016/j.rmed.2020.106241
- Hoepfer, M.M., Pausch, C., Grünig, E., Klose, H., Staehler, G., Huscher, D., Pittrow, D., Olsson, K.M., Vizza, C.D., Gall, H., Benjamin, N., Distler, O., Opitz, C., Gibbs, J.S.R., Delcroix, M., Ghofrani, H.A., Rosenkranz, S., Ewert, R., Kaemmerer, H., Lange, T.J., Kabitz, H.J., Skowasch, D., Skride, A., Jureviciene, E., Paleviciute, E., Miliauskas, S., Claussen, M., Behr, J., Milger, K., Halank, M., Wilkens, H., Wirtz, H., Pfeuffer-Jovic, E., Harbaum, L., Scholtz, W., Dumitrescu, D., Bruch, L., Coghlan, G., Neurohr, C., Tsangaris, I., Gorenflo, M., Scelsi, L., Vonk-Noordegraaf, A., Ulrich, S., Held, M. (2020). Idiopathic pulmonary arterial hypertension phenotypes determined by cluster analysis from the COMPERA registry *J Heart Lung Transplant* 39,1435-1444. DOI: 10.1016/j.healun.2020.09.011
- Hollwedel, F.D., Maus, R., Stolper, J., Khan, A., Stocker, B.L., Timmer, M.S.M., Lu, X., Pich, A., Welte, T., Yamasaki, S., Maus, U.A. (2020). Overexpression of Macrophage-Inducible C-Type Lectin Mincle Aggravates Proinflammatory Responses to Streptococcus pneumoniae with Fatal Outcome in Mice. *J Immunol* 205,3390-3399. DOI: 10.4049/jimmunol.2000509
- Holz, O., DeLuca, D.S., Roepcke, S., Illig, T., Weinberger, K.M., Schudt, C., Hohlfeld, J.M. (2020). Smokers with COPD Show a Shift in Energy and Nitrogen Metabolism at Rest and During Exercise *Int J Chron Obstruct Pulmon Dis* 15,1-13. DOI: 10.2147/COPD.S217474
- Huppertz, C., Jäger, B., Wiczorek, G., Engelhard, P., Oliver, S.J., Bauernfeind, F.G., Littlewood-Evans, A., Welte, T., Hornung, V., Prasse, A. (2020). The NLRP3 inflammasome pathway is activated in sarcoidosis and involved in granuloma formation *Eur Respir J* 55, DOI: 10.1183/13993003.00119-2019
- Ichanti, H., Sladic, S., Kalies, S., Haverich, A., Andree, B., Hilfiker, A. (2020). Characterization of Tissue Engineered Endothelial Cell Networks in Composite Collagen-Agarose Hydrogels *Gels* 6,27. DOI: 10.3390/gels6030027
- Ius, F., Aburahma, K., Boethig, D., Salman, J., Sommer, W., Draeger, H., Poyanmehr, R., Avsar, M., Siemeni, T., Bobylev, D., Optenhoefel, J., Wiesner, O., Greer, M., Schwerk, N., Hoepfer, M.M., Welte, T., Haverich, A., Kuehn, C., Warnecke, G., Gottlieb, J., Tudorache, I. (2020). Long-term outcomes after intraoperative extracorporeal membrane oxygenation during lung transplantation *J Heart Lung Transplant* 39,915-925. DOI: 10.1016/j.healun.2020.04.020
- Ius, F., Müller, C., Sommer, W., Verboom, M., Hallensleben, M., Salman, J., Siemeni, T., Kühn, C., Avsar, M., Bobylev, D., Poyanmehr, R., Erdfelder, C., Böthig, D., Carlens, J., Bayir, L., Hansen, G., Blasczyk, R., Falk, C., Tecklenburg, A., Haverich, A., Tudorache, I., Schwerk, N., Warnecke, G. (2020). Six-year experience with treatment of early donor-specific anti-HLA antibodies in pediatric lung transplantation using a human immunoglobulin-based protocol *Pediatr Pulmonol* 55,754-764. DOI: 10.1002/ppul.24639

Ius, F., Salman, J., Knoefel, A.K., Sommer, W., Nakagiri, T., Verboom, M., Siemeni, T., Poyanmehr, R., Bobylev, D., Kuehn, C., Avsar, M., Erdfelder, C., Hallensleben, M., Boethig, D., Hecker, H., Schwerk, N., Mueller, C., Welte, T., Falk, C., Preissler, G., Haverich, A., Tudorache, I., Warnecke, G. (2020). Increased frequency of CD4(+) CD25(high) CD127(low) T cells early after lung transplant is associated with improved graft survival - a retrospective study *Transpl Int* *33*,503-516. DOI: 10.1111/tri.13568

Jäger, B., Klatt, D., Plappert, L., Golpon, H., Lienenklaus, S., Barbosa, P.D., Schambach, A., Prasse, A. (2020). CXCR4/MIF axis amplifies tumor growth and epithelial-mesenchymal interaction in non-small cell lung cancer *Cell Signal* *73*,109672. DOI: 10.1016/j.cellsig.2020.109672

Janke, F., Bozorgmehr, F., Wrenger, S., Dietz, S., Heussel, C.P., Heussel, G., Silva, C.F., Rheinheimer, S., Feisst, M., Thomas, M., Golpon, H., Günther, A., Sültmann, H., Muley, T., Janciauskiene, S., Meister, M., Schneider, M.A. (2020). Novel Liquid Biomarker Panels for A Very Early Response Capturing of NSCLC Therapies in Advanced Stages Cancers (Basel) *72*, DOI: 10.3390/cancers12040954

Jansing, J.C., Fiedler, J., Pich, A., Viereck, J., Thum, T., Mühlfeld, C., Brandenberger, C. (2020). miR-21-KO Alleviates Alveolar Structural Remodeling and Inflammatory Signaling in Acute Lung Injury *Int J Mol Sci* *21*,E822. DOI: 10.3390/ijms21030822

Jarosch, I., Schneeberger, T., Gloeckl, R., Kreuter, M., Frankenberger, M., Neurohr, C., Prasse, A., Freise, J., Behr, J., Hitzl, W., Koczulla, A.R., Kenn, K. (2020). Short-Term Effects of Comprehensive Pulmonary Rehabilitation and its Maintenance in Patients with Idiopathic Pulmonary Fibrosis: A Randomized Controlled Trial *J Clin Med* *9*, DOI: 10.3390/jcm9051567

Jendry, P., Schulz, C., Twele, F., Meller, S., von Köckritz-Blickwede, M., Osterhaus, A.D.M.E., Ebbers, J., Pilchova, V., Pink, I., Welte, T., Manns, M.P., Fathi, A., Ernst, C., Addo, M.M., Schalke, E., Volk, H.A. (2020). Scent dog identification of samples from COVID-19 patients - a pilot study. *BMC Infect Dis* *20*,536. DOI: 10.1186/s12879-020-05281-3

Jirno, A.C., Busse, M., Happle, C., Skuljec, J., Dalüge, K., Habener, A., Grychtol, R., DeLuca, D.S., Breiholz, O.D., Prinz, I., Hansen, G. (2020). IL-17 regulates DC migration to the peribronchial LNs and allergen presentation in experimental allergic asthma *Eur J Immunol* *50*,1019-1033. DOI: 10.1002/eji.201948409

Jirno, A.C., Rossdam, C., Grychtol, R., Happle, C., Gerardy-Schahn, R., Buettner, F.F.R., Hansen, G. (2020). Differential expression patterns of glycosphingolipids and C-type lectin receptors on immune cells in absence of functional regulatory T cells *Immun Inflamm Dis* *8*,512-522. DOI: 10.1002/iid3.334

Joean, O., Thiele, T., Schütz, K., Schwerk, N., Sedlacek, L., Kalsdorf, B., Baumann, U., Stoll, M. (2020). Multidrug-resistant *Mycobacterium tuberculosis*: a report of cosmopolitan microbial migration and an analysis of best management practices *BMC Infect Dis* *20*,678. DOI: 10.1186/s12879-020-05381-0

Kaemmerer, H., Gorenflo, M., Huscher, D., Pittrow, D., Apitz, C., Baumgartner, H., Berger, F., Bruch, L., Brunnemer, E., Budts, W., Claussen, M., Coghlan, G., Dahnert, I., D'Alto, M., Delcroix, M., Distler, O., Dittrich, S., Dumitrescu, D., Ewert, R., Faehling, M., Germund, I., Ghofrani, H.A., Grohe, C., Grossekreymborg, K., Halank, M., Hansmann, G., Harzheim, D., Nemes, A., Havasi, K., Held, M., Hoepfer, M.M., Hofbeck, M., Hohenfrost-Schmidt, W., Jureviciene, E., Gumbiene, L., Kabitz, H.J., Klose, H., Kohler, T., Konstantinides, S., Koestenberger, M., Kozlik-Feldmann, R., Kramer, H.H., Kropf-Sanchen, C., Lammers, A., Lange, T., Meyn, P., Miera, O., Milger-Kneidinger, K., Neidenbach, R., Neurohr, C., Opitz, C., Perings, C., Remppis, B.A., Riemekasten, G., Scelsi, L., Scholtz, W., Simkova, I., Skowasch, D., Skride, A., Stahler, G., Stiller, B., Tsangaris, I., Vizza, C.D., Vonk Noordegraaf, A., Wilkens, H., Wirtz, H., Diller, G.P., Grunig, E., Rosenkranz, S. (2020). Pulmonary Hypertension in Adults with Congenital Heart Disease: Real-World Data from the International COMPERA-CHD Registry. *J Clin Med* *9*,E1456 [pii]. DOI: 10.3390/jcm9051456

Kahnert, K., Jörres, R.A., Kauczor, H.U., Biederer, J., Jobst, B., Alter, P., Biertz, F., Mertsch, P., Lucke, T., Lutter, J.I., Trudzinski, F.C., Behr, J., Bals, R., Watz, H., Vogelmeier, C.F., Welte, T., COSYCONET Study-Group, Names of participating study nurses. (2020). Relationship between clinical and radiological signs of bronchiectasis in COPD patients: Results from COSYCONET. *Respir Med* *172*,106117. DOI: 10.1016/j.rmed.2020.106117

Kang, M.H., van Lieshout, L.P., Xu, L., Domm, J.M., Vadivel, A., Renesme, L., Mühlfeld, C., Hurskainen, M., Mizikova, I., Pei, Y., van Vloten, J.P., Thomas, S.P., Milazzo, C., Cyr-Depauw, C., Whitsett, J.A., Noguee, L.M., Wootton, S.K., Thebaud, B. (2020). A lung tropic AAV vector improves survival in a mouse model of surfactant B deficiency *Nat Commun* *11*,3929. DOI: 10.1038/s41467-020-17577-8

Kanwar, M.K., Gomberg-Maitland, M., Hoepfer, M., Pausch, C., Pittrow, D., Strange, G., Anderson, J.J., Zhao, C., Scott, J.V., Druzdzel, M.J., Kraisangka, J., Lohmueller, L., Antaki, J., Benza, R.L. (2020). Risk stratification in pulmonary arterial hypertension using Bayesian analysis. *Eur Respir J* *56*,2000008 [pii]. DOI: 10.1183/13993003.00008

Kauffmann-Guerrero, D., Tufman, A., Kahnert, K., Bollmann, B.A., Reu, S., Syunyaeva, Z., Schneider, C., Manapov, F., Huber, R.M., Golpon, H. (2020). Response to Checkpoint Inhibition in Non-Small Cell Lung Cancer with Molecular Driver Alterations *Oncol Res Treat* *43*,289-298. DOI: 10.1159/000506842

- Kayser, M.Z., Valtin, C., Greer, M., Karow, B., Fuge, J., Gottlieb, J. (2020). Video Consultation During the COVID-19 Pandemic: A Single Center's Experience with Lung Transplant Recipients Telemed J E Health DOI: 10.1089/tmj.2020.0170
- Kern, A.L., Gutberlet, M., Moher Alsady, T., Welte, T., Wacker, F., Hohlfeld, J.M., Vogel-Claussen, J. (2020). Investigating short-time diffusion of hyperpolarized (¹²⁹Xe) in lung air spaces and tissue: A feasibility study in chronic obstructive pulmonary disease patients Magn Reson Med 84,2133-2146. DOI: 10.1002/mrm.28264
- Khan, A., Hollwedel, F., Maus, U.A., Stocker, B.L., Timmer, M.S.M. (2020). Synthesis of alpha-Glucosyl Diacylglycerides as potential adjuvants for Streptococcus pneumoniae vaccines Carbohydr Res 489,107951. DOI: 10.1016/j.carres.2020.107951
- Kluge, S., Janssens, U., Welte, T., Weber-Carstens, S., Schälte, G., Salzberger, B., Gastmeier, P., Langer, F., Wepler, M., Westhoff, M., Pfeifer, M., Hoffmann, F., Böttiger, B.W., Marx, G., Karagiannidis, C. (2020). Empfehlungen zur intensivmedizinischen Therapie von Patienten mit COVID-19 - 3. Version : S1-Leitlinie. Anaesthesist 69,653-664. DOI: 10.1007/s00101-020-00833-3
- Kolmert, J., Gómez, C., Balgoma, D., Sjödin, M., Bood, J., Konradsen, J.R., Ericsson, M., Thörngren, J.O., James, A., Mikus, M., Sousa, A.R., Riley, J.H., Bates, S., Bakke, P.S., Pandis, I., Caruso, M., Chanez, P., Fowler, S.J., Geiser, T., Howarth, P., Horváth, I., Krug, N., Montuschi, P., Sanak, M., Behndig, A., Shaw, D.E., Knowles, R.G., Holweg, C.T.J., Wheelock, A.M., Dahlén, B., Nordlund, B., Alving, K., Hedlin, G., Chung, K.F., Adcock, I.M., Sterk, P.J., Djukanovic, R., Dahlén, S.E., Wheelock, C.E., U-BIOPRED Study Group, on behalf of the U-BIOPRED Study Group. (2021). Urinary Leukotriene E4 and Prostaglandin D2 Metabolites Increase in Adult and Childhood Severe Asthma Characterized by Type 2 Inflammation. A Clinical Observational Study. Am J Respir Crit Care Med 203,37-53. DOI: 10.1164/rccm.201909-1869OC
- Krempaska, K., Barnowski, S., Gavini, J., Hobi, N., Ebener, S., Simillion, C., Stokes, A., Schliep, R., Knudsen, L., Geiser, T.K., Funke-Chambour, M. (2020). Azithromycin has enhanced effects on lung fibroblasts from idiopathic pulmonary fibrosis (IPF) patients compared to controls [corrected Respir Res 21,25. DOI: 10.1186/s12931-020-1275-8
- Krischer, J.M., Albert, K., Pfaffenroth, A., Lopez-Rodriguez, E., Ruppert, C., Smith, B.J., Knudsen, L. (2021). Mechanical ventilation-induced alterations of intracellular surfactant pool and blood-gas barrier in healthy and pre-injured lungs Histochem Cell Biol 155,183-202. DOI: 10.1007/s00418-020-01938-x
- Kuntz, M., Kohlfürst, D.S., Feiterna-Sperling, C., Krüger, R., Baumann, U., Buchtala, L., Elling, R., Grote, V., Hübner, J., Hufnagel, M., Kaiser-Labusch, P., Liese, J., Otto, E.M., Rose, M.A., Schneider, C., Schuster, V., Seidl, M., Sommerburg, O., Vogel, M., von Bernuth, H., Weiss, M., Zimmermann, T., Nieters, A., Zenz, W., Henneke, P., NTMkids Consortium. (2020). Risk Factors for Complicated Lymphadenitis Caused by Nontuberculous Mycobacteria in Children Emerg Infect Dis 26,579-586. DOI: 10.3201/eid2603.191388
- Lasch, F., Karch, A., Koch, A., Derlin, T., Voskrebenez, A., Alsady, T.M., Hoepfer, M.M., Gall, H., Roller, F., Harth, S., Steiner, D., Krombach, G., Ghofrani, H.A., Rengier, F., Heussel, C.P., Grünig, E., Beitzke, D., Hacker, M., Lang, I.M., Behr, J., Bartenstein, P., Dinkel, J., Schmidt, K.H., Kreitner, K.F., Frauenfelder, T., Ulrich, S., Hamer, O.W., Pfeifer, M., Johns, C.S., Kiely, D.G., Swift, A.J., Wild, J., Vogel-Claussen, J. (2020). Comparison of MRI and VQ-SPECT as a Screening Test for Patients With Suspected CTEPH: CHANGE-MRI Study Design and Rationale Front Cardiovasc Med 7,51. DOI: 10.3389/fcvm.2020.00051
- Leuschner, G., Klotsche, J., Kreuter, M., Prasse, A., Wirtz, H., Pittrow, D., Frankenberger, M., Behr, J., Kneidinger, N., INSIGHTS-IPF Registry Group. (2020). Idiopathic Pulmonary Fibrosis in Elderly Patients: Analysis of the INSIGHTS-IPF Observational Study. Front Med (Lausanne) 7,601279. DOI: 10.3389/fmed.2020.601279
- Lipus, A., Janosz, E., Ackermann, M., Hetzel, M., Dahlke, J., Buchegger, T., Wunderlich, S., Martin, U., Cathomen, T., Schambach, A., Moritz, T., Lachmann, N. (2020). Targeted Integration of Inducible Caspase-9 in Human iPSCs Allows Efficient in vitro Clearance of iPSCs and iPSC-Macrophages Int J Mol Sci 21,DOI: 10.3390/ijms21072481
- Litzkendorf, S., Frank, M., Babac, A., Rosenfeldt, D., Schauer, F., Hartz, T., Graf von der Schulenburg, J.M. (2020). Use and importance of different information sources among patients with rare diseases and their relatives over time: a qualitative study. BMC Public Health 20,860. DOI: 10.1186/s12889-020-08926-9
- Liu, B., Lindner, P., Jirno, A.C., Maus, U., Illig, T., DeLuca, D.S. (2020). A comparison of curated gene sets versus transcriptomics-derived gene signatures for detecting pathway activation in immune cells. BMC Bioinformatics 21,28. DOI: 10.1186/s12859-020-3366-4
- Loebinger, M.R., Polverino, E., Chalmers, J.D., Tiddens, H.A.W.M., Goossens, H., Tunney, M., Ringshausen, F.C., Hill, A.T., Pathan, R., Angyalosi, G., Blasi, F., Elborn, S.J., Haworth, C.S., iBEST-1 Trial Team. (2021). Efficacy and safety of TOBI Podhaler in Pseudomonas aeruginosa-infected bronchiectasis patients: iBEST study. Eur Respir J 57,2001451. DOI: 10.1183/13993003.01451-2020

Lutter, J.I., Jörres, R.A., Welte, T., Watz, H., Waschki, B., Alter, P., Trudzinski, F.C., Ohlander, J., Behr, J., Bals, R., Studnicka, M., Holle, R., Vogelmeier, C.F., Kahnert, K. (2020). Impact of Education on COPD Severity and All-Cause Mortality in Lifetime Never-Smokers and Long-time Ex-Smokers: Results of the COSYCONET Cohort. *Int J Chron Obstruct Pulmon Dis* 15,2787-2798. DOI: 10.2147/COPD.S273839

Lyutenski, S., Erfurt, P., Ochs, M., Lenarz, T. (2020). Reprint of Corrosion casting of the temporal bone: Review of the technique *Ann Anat* 230,151518. DOI: 10.1016/j.aanat.2020.151518

Macleod, T., Ainscough, J.S., Hesse, C., Konzok, S., Braun, A., Buhl, A.L., Wenzel, J., Bowyer, P., Terao, Y., Herrick, S., Wittmann, M., Stacey, M. (2020). The Proinflammatory Cytokine IL-36 γ Is a Global Discriminator of Harmless Microbes and Invasive Pathogens within Epithelial Tissues. *Cell Rep* 33,108515. DOI: 10.1016/j.celrep.2020.108515

Martin-Fernandez, M., Bravo Garcia-Morato, M., Gruber, C., Murias Loza, S., Malik, M.N.H., Alshome, F., Alakeel, A., Valdez, R., Buta, S., Buda, G., Marti, M.A., Larralde, M., Boisson, B., Feito Rodriguez, M., Qiu, X., Chrabieh, M., Al Ayed, M., Al Muhsen, S., Desai, J.V., Ferre, E.M.N., Rosenzweig, S.D., Amador-Borrero, B., Bravo-Gallego, L.Y., Olmer, R., Merkert, S., Bret, M., Sood, A.K., Al-Rabiaah, A., Temsah, M.H., Halwani, R., Hernandez, M., Pessler, F., Casanova, J.L., Bustamante, J., Lionakis, M.S., Bogunovic, D. (2020). Systemic Type I IFN Inflammation in Human ISG15 Deficiency Leads to Necrotizing Skin Lesions *Cell Rep* 31,107633. DOI: 10.1016/j.celrep.2020.107633

Maschke, S.K., Werncke, T., Becker, L.S., Dewald, C.L.A., Meine, T.C., Olsson, K.M., Fuge, J., Hoepfer, M.M., Wacker, F.K., Meyer, B.C., Hinrichs, J.B. (2020). The Value of C-Arm Computed Tomography in Addition to Conventional Digital Subtraction Angiography in the Diagnostic Work-up of Patients with Suspected Chronic Thromboembolic Pulmonary Hypertension: An Update of 300 Patients *Acad Radiol* DOI: 10.1016/j.acra.2020.06.039

Matamala, N., Gomez-Mariano, G., Perez, J.A., Baladron, B., Torres-Duran, M., Michel, F.J., Saez, R., Hernandez-Perez, J.M., Belmonte, I., Rodriguez-Frias, F., Blanco, I., Strnad, P., Janciauskiene, S., Martinez-Delgado, B. (2020). New cis-Acting Variants in PI³S Background Produce Null Phenotypes Causing Alpha-1 Antitrypsin Deficiency *Am J Respir Cell Mol Biol* 63,444-451. DOI: 10.1165/rcmb.2020-0021OC

Meine, T.C., Dewald, C.L.A., Becker, L.S., Mähringer-Kunz, A., Massoumy, B., Maschke, S.K., Kirstein, M.M., Werncke, T., Wacker, F.K., Meyer, B.C., Hinrichs, J.B. (2020). Transjugular intrahepatic portosystemic shunt placement: portal vein puncture guided by 3D/2D image registration of contrast-enhanced multi-detector computed tomography and fluoroscopy *Abdom Radiol (NY)* 45,3934-3943. DOI: 10.1007/s00261-020-02589-1

Merkert, S., Jaboreck, M.C., Engels, L., Malik, M.N.H., Göhring, G., Pessler, F., Martin, U., Olmer, R. (2021). Generation of two human ISG15 knockout iPSC clones using CRISPR/Cas9 editing *Stem Cell Res* 50,102135. DOI: 10.1016/j.scr.2020.102135

Merkert, S., Schubert, M., Haase, A., Janssens, H.M., Scholte, B., Lachmann, N., Göhring, G., Martin, U. (2020). Generation of an induced pluripotent stem cell line (MHHi018-A) from a patient with Cystic Fibrosis carrying p.Asn1303Lys (N1303K) mutation. *Stem Cell Res* 44,101744. DOI: 10.1016/j.scr.2020.101744

Minso, R., Schulz, A., Dopfer, C., Alfeis, N., Barneveld, A.V., Makartian-Gyulumyan, L., Hansen, G., Junge, S., Müller, C., Ringshausen, F.C.C., Sauer-Heilborn, A., Stanke, F., Stolpe, C., Tamm, S., Welte, T., Dittrich, A.M., Tümmler, B. (2020). Intestinal current measurement and nasal potential difference to make a diagnosis of cases with inconclusive CFTR genetics and sweat test *BMJ Open Respir Res* 7,DOI: 10.1136/bmjresp-2020-000736

Möhn, N., Mahjoub, S., Gutzmer, R., Satzger, I., Beutel, G., Ivanyi, P., Golpon, H., Wattjes, M.P., Stangel, M., Skripuletz, T. (2020). Diagnosis and Differential Diagnosis of Neurological Adverse Events during Immune Checkpoint Inhibitor Therapy *J Oncol* 2020,DOI: 10.1155/2020/8865054

Moye, S., Bormann, T., Maus, R., Sparwasser, T., Sandrock, I., Prinz, I., Warnecke, G., Welte, T., Gaudie, J., Kolb, M., Maus, U.A. (2020). Regulatory T Cells Limit Pneumococcus-Induced Exacerbation of Lung Fibrosis in Mice. *J Immunol* 204,2429-2438. DOI: 10.4049/jimmunol.1900980

Mühlfeld, C., Pfeiffer, C., Schneider, V., Bornemann, M., Schipke, J. (2021). Voluntary activity reverses spermidine-induced myocardial fibrosis and lipid accumulation in the obese male mouse *Histochem Cell Biol* 155,75-88. DOI: 10.1007/s00418-020-01926-1

Mühlfeld, C., Wrede, C., Molnar, V., Rajces, A., Brandenberger, C. (2021). The plate body: 3D ultrastructure of a facultative organelle of alveolar epithelial type II cells involved in SP-A trafficking *Histochem Cell Biol* 155,261-269. DOI: 10.1007/s00418-020-01912-7

Mund, E., Salem, J., Kreipe, H.H., Hussein, K. (2020). Clinically latent and autopsy-verified inflammatory disorders and malignant tumours in transplant patients. *J Clin Pathol* DOI: 10.1136/jclinpath-2020-207080

- Neubert, L., Borchert, P., Stark, H., Hoefler, A., Vogel-Claussen, J., Warnecke, G., Eubel, H., Kuenzler, P., Kreipe, H.H., Hoepfer, M.M., Kuehnel, M., Jonigk, D. (2020).Molecular Profiling of Vascular Remodeling in Chronic Pulmonary Disease. *Am J Pathol* 190,1382-1396. DOI: 10.1016/j.ajpath.2020.03.008
- Nöhre, M., Paslakis, G., Albayrak, O., Bauer-Hohmann, M., Brederecke, J., Eser-Valeri, D., Tudorache, I., de Zwaan, M. (2020).Factor Analyses and Validity of the Transplant Evaluation Rating Scale (TERS) in a Large Sample of Lung Transplant Candidates *Front Psychiatry* 11,373. DOI: 10.3389/fpsy.2020.00373
- Nowak-Imialek, M., Wunderlich, S., Herrmann, D., Breitschuh-Leibling, S., Göhring, G., Petersen, B., Klein, S., Baulain, U., Lucas-Hahn, A., Martin, U., Niemann, H. (2020).In Vitro and In Vivo Interspecies Chimera Assay Using Early Pig Embryos Cell Reprogram *22*,118-133. DOI: 10.1089/cell.2019.0107
- Obert, A.J., Gutberlet, M., Kern, A.L., Kaireit, T.F., Grimm, R., Wacker, F., Vogel-Claussen, J. (2020).(1) H-guided reconstruction of (19) F gas MRI in COPD patients *Magn Reson Med* 84,1336-1346. DOI: 10.1002/mrm.28209
- Odak, I., Barros-Martins, J., Bosnjak, B., Stahl, K., David, S., Wiesner, O., Busch, M., Hoepfer, M.M., Pink, I., Welte, T., Cornberg, M., Stoll, M., Goudeva, L., Blasczyk, R., Ganser, A., Prinz, I., Förster, R., Koenecke, C., Schultze-Florey, C.R. (2020).Reappearance of effector T cells is associated with recovery from COVID-19 *EBioMedicine* 57,102885. DOI: 10.1016/j.ebiom.2020.102885
- Panettieri, R.A., Jr, Welte, T., Shenoy, K.V., Korn, S., Jandl, M., Kerwin, E.M., Feijoo, R., Barker, P., Olsson, R.F., Martin, U.J., SOLANA Study Investigators. (2020).Onset of Effect, Changes in Airflow Obstruction and Lung Volume, and Health-Related Quality of Life Improvements with Benralizumab for Patients with Severe Eosinophilic Asthma: Phase IIIb Randomized, Controlled Trial (SOLANA) *J Asthma Allergy* 13,115-126. DOI: 10.2147/JAA.S240044
- Pflaum, M., Merhej, H., Peredo, A., De, A., Dipresa, D., Wiegmann, B., Wolkers, W., Haverich, A., Korossis, S. (2020).Hypothermic preservation of endothelialized gas-exchange membranes *Artif Organs* 44,e552-e565. DOI: 10.1111/aor.13776
- Poehler, G.H., Alikhani, B., Klimes, F., Hauck, E.F., Ringe, K.I., Sonnow, L., Wacker, F., Raatschen, H.J. (2020).Impact of active dose management on radiation exposure and image quality in computed tomography: An observational study in 1315 patients *Eur J Radiol* 125,108900. DOI: 10.1016/j.ejrad.2020.108900
- Pöhler, G.H., Klimes, F., Voskrebenez, A., Behrendt, L., Czerner, C., Gutberlet, M., Cebotari, S., Ius, F., Fegbeutel, C., Schoenfeld, C., Kaireit, T.F., Hauck, E.F., Olsson, K.M., Hoepfer, M.M., Wacker, F., Vogel-Claussen, J. (2020).Chronic Thromboembolic Pulmonary Hypertension Perioperative Monitoring Using Phase-Resolved Functional Lung (PREFUL)-MRI *J Magn Reson Imaging* 52,610-619. DOI: 10.1002/jmri.27097
- Prenzel, F., Harfst, J., Schwerk, N., Ahrens, F., Rietschel, E., Schmitt-Grohe, S., Rubak, S.M.L., Poplawska, K., Baden, W., Vogel, M., Holizeck, S., Ley-Zaporozhan, J., Brasch, F., Reu, S., Griese, M., LIP/FB-Kids-Lung-Registry Study Group. (2020).Lymphocytic interstitial pneumonia and follicular bronchiolitis in children: A registry-based case series *Pediatr Pulmonol* 55,909-917. DOI: 10.1002/ppul.24680
- Pust, M.M., Wiehlmann, L., Davenport, C., Rudolf, I., Dittrich, A.M., Tümmler, B. (2020).The human respiratory tract microbial community structures in healthy and cystic fibrosis infants *NPJ Biofilms Microbiomes* 6,61. DOI: 10.1038/s41522-020-00171-7
- Richter, M.J., Harutyunova, S., Bollmann, T., Classen, S., Fuge, J., Gall, H., Gerhardt, F., Ghofrani, H.A., Gunkel, H., Grünig, E., Halank, M., Heine, A., Klose, H., Lange, T.J., Neurohr, C., Nickolaus, K., Opitz, C.F., Rosenkranz, S., Seyfarth, H.J., Tello, K., Ewert, R., Olsson, K.M. (2020).Flow rate variance of a fully implantable pump for the delivery of intravenous treprostinil in pulmonary arterial hypertension. *Pulm Circ* 10,2045894020910136. DOI: 10.1177/2045894020910136
- Rosenkranz, S., Howard, L.S., Gomberg-Maitland, M., Hoepfer, M.M. (2020).Systemic Consequences of Pulmonary Hypertension and Right-Sided Heart Failure. *Circulation* 141,678-693. DOI: 10.1161/CIRCULATIONAHA.116.022362
- Ruwisch, J., Sehmeyer, K., Roldan, N., Garcia-Alvarez, B., Perez-Gil, J., Weaver, T.E., Ochs, M., Knudsen, L., Lopez-Rodriguez, E. (2020).Air Space Distension Precedes Spontaneous Fibrotic Remodeling and Impaired Cholesterol Metabolism in the Absence of Surfactant Protein C. *Am J Respir Cell Mol Biol* 62,466-478. DOI: 10.1165/rcmb.2019-0358OC
- Sahabian, A., von Schlehdorn, L., Drick, N., Pink, I., Dahlmann, J., Haase, A., Göhring, G., Welte, T., Martin, U., Ringshausen, F.C., Olmer, R. (2020).Generation of two hiPSC clones (MHHi019-A, MHHi019-B) from a primary ciliary dyskinesia patient carrying a homozygous deletion in the NME5 gene (c.415delA (p.Ile139Tyrfs*8)). *Stem Cell Res* 48,101988. DOI: 10.1016/j.scr.2020.101988
- Schipke, J., Jütte, D., Brandenberger, C., Autilio, C., Perez-Gil, J., Bernhard, W., Ochs, M., Mühlfeld, C. (2021).Dietary Carbohydrates and Fat Induce Distinct Surfactant Alterations in Mice *Am J Respir Cell Mol Biol* 64,379-390. DOI: 10.1165/rcmb.2020-0335OC

- Schneider, C.V., Hamesch, K., Gross, A., Mandorfer, M., Moeller, L.S., Pereira, V., Pons, M., Kuca, P., Reichert, M.C., Benini, F., Burbaum, B., Voss, J., Gutberlet, M., Woditsch, V., Lindhauer, C., Fromme, M., Kümpers, J., Bewersdorf, L., Schaefer, B., Eslam, M., Bals, R., Janciauskiene, S., Carvao, J., Neureiter, D., Zhou, B., Wöran, K., Bantel, H., Geier, A., Dirrichs, T., Stichel, F., Teumer, A., Verbeek, J., Nevens, F., Govaere, O., Krawczyk, M., Roskams, T., Haybaeck, J., Lurje, G., Chorostowska-Wynimko, J., Genesca, J., Reiberger, T., Lammert, F., Krag, A., George, J., Anstee, Q.M., Trauner, M., Datz, C., Gaisa, N.T., Denk, H., Trautwein, C., Aigner, E., Strnad, P., European Alpha-1 Liver Study Group. (2020). Liver Phenotypes of European Adults Heterozygous or Homozygous for Pi *Z Variant of AAT (Pi *MZ vs Pi *ZZ genotype) and Noncarriers *Gastroenterology* 159,534. DOI: 10.1053/j.gastro.2020.04.058
- Schneider, J.P., Wrede, C., Mühlfeld, C. (2020). The Three-Dimensional Ultrastructure of the Human Alveolar Epithelium Revealed by Focused Ion Beam Electron Microscopy *Int J Mol Sci* 21, DOI: 10.3390/ijms21031089
- Schröder, S., Beller, J., Golpon, H., Geyer, S. (2020). Are there social gradients in the occurrence of lung cancer and in the survival of lung cancer patients? Findings from an observational study using German claims data of Lower Saxony. *BMJ Open* 10, e036506. DOI: 10.1136/bmjopen-2019-036506
- Schulz, O., Wiesner, O., Welte, T., Bollmann, B.A., Suhling, H., Hoeper, M.M., Busch, M. (2020). Enoximone in status asthmaticus *ERJ Open Res* 6, DOI: 10.1183/23120541.00367-2019
- Schwarz, N., Tumpara, S., Wrenger, S., Ercetin, E., Hamacher, J., Welte, T., Janciauskiene, S. (2020). Alpha1-antitrypsin protects lung cancer cells from staurosporine-induced apoptosis: the role of bacterial lipopolysaccharide. *Sci Rep* 10, 9563. DOI: 10.1038/s41598-020-66825-w
- Seidl, E., Carlens, J., Schwerk, N., Wetzke, M., Marczak, H., Lange, J., Krenke, K., Mayell, S.J., Escribano, A., Seidenberg, J., Ahrens, F., Hebestreit, H., Nährlich, L., Sismanlar, T., Aslan, A.T., Sniijders, D., Ullmann, N., Kappler, M., Griese, M. (2020). Persistent tachypnea of infancy: Follow up at school age *Pediatr Pulmonol* 55, 3119-3125. DOI: 10.1002/ppul.25004
- Sieweke, J.T., Akin, M., Stetskamp, S., Riehle, C., Jonigk, D., Flierl, U., Pfeffer, T.J., Hirsch, V., Dutzmann, J., Hoeper, M.M., Kühn, C., Bauersachs, J., Schäfer, A. (2020). Mechanical circulatory support in refractory cardiogenic shock due to influenza virus-related myocarditis *Eur Respir J* 56, 2000925. DOI: 10.1183/13993003.00925-2020
- Sitbon, O., Chin, K.M., Channick, R.N., Benza, R.L., Di Scala, L., Gaine, S., Ghofrani, H.A., Lang, I.M., McLaughlin, V.V., Preiss, R., Rubin, L.J., Simonneau, G., Tapson, V.F., Galie, N., Hoeper, M.M. (2020). Risk assessment in pulmonary arterial hypertension: Insights from the GRIPHON study. *J Heart Lung Transplant* 39, 300-309. DOI: 10.1016/j.healun.2019.12.013
- Smith, B.J., Roy, G.S., Cleveland, A., Mattson, C., Okamura, K., Charlebois, C.M., Hamlington, K.L., Novotny, M.V., Knudsen, L., Ochs, M., Hite, R.D., Bates, J.H.T. (2020). Three Alveolar Phenotypes Govern Lung Function in Murine Ventilator-Induced Lung Injury *Front Physiol* 11, 660. DOI: 10.3389/fphys.2020.00660
- Smits, J.M., Gottlieb, J., Verschuuren, E., Evrard, P., Hoek, R., Knoop, C., Lang, G., Kwakkel-van Erp, J.M., Vos, R., Verleden, G., Rondelet, B., Hofer, D., Langer, F., Schramm, R., Hoetzenecker, K., van Kessel, D., Luijk, B., Seghers, L., Deuse, T., Buhl, R., Witt, C., Strelniec, A., Green, D., de Vries, E., Laufer, G., Van Raemdonck, D. (2020). Impact of donor lung quality on post-transplant recipient outcome in the Lung Allocation Score era in Eurotransplant - a historical prospective study *Transpl Int* 33, 544-554. DOI: 10.1111/tri.13582
- Sogkas, G., Hirsch, S., Olsson, K.M., Hinrichs, J.B., Thiele, T., Seeliger, T., Skripuletz, T., Schmidt, R.E., Witte, T., Jablonka, A., Ernst, D. (2020). Lung Involvement in Primary Sjogren's Syndrome - An Under-Diagnosed Entity *Front Med (Lausanne)* 7, 332. DOI: 10.3389/fmed.2020.00332
- Stahl, K., Bikker, R., Seeliger, B., Schmidt, J.J., Schenk, H., Schmidt, B.M.W., Welte, T., Haller, H., Hoeper, M.M., Brand, K., David, S. (2021). Effect of Therapeutic Plasma Exchange on Immunoglobulin Deficiency in Early and Severe Septic Shock *J Intensive Care Med* 36, 456. DOI: 10.1177/0885066620965169
- Stahl, K., Schmidt, B.M.W., Hoeper, M.M., Skripuletz, T., Möhn, N., Beutel, G., Eder, M., Welte, T., Ganser, A., Falk, C.S., Koenecke, C., David, S. (2020). Extracorporeal cytokine removal in severe CAR-T cell associated cytokine release syndrome *J Crit Care* 57, 124-129. DOI: 10.1016/j.jcrc.2020.02.010
- Stahl, K., Schmidt, J.J., Seeliger, B., Schmidt, B.M.W., Welte, T., Haller, H., Hoeper, M.M., Budde, U., Bode, C., David, S. (2020). Effect of therapeutic plasma exchange on endothelial activation and coagulation-related parameters in septic shock *Crit Care* 24, 71. DOI: 10.1186/s13054-020-2799-5
- Stojanovic, S.D., Fuchs, M., Fiedler, J., Xiao, K., Meinecke, A., Just, A., Pich, A., Thum, T., Kunz, M. (2020). Comprehensive Bioinformatics Identifies Key microRNA Players in ATG7-Deficient Lung Fibroblasts *Int J Mol Sci* 21, DOI: 10.3390/ijms21114126

- Suarez, N.M., Blyth, E., Li, K., Ganzenmueller, T., Camiolo, S., Avdic, S., Withers, B., Linnenweber-Held, S., Gwinner, W., Dhingra, A., Heim, A., Schulz, T.F., Gunson, R., Gottlieb, D., Slobedman, B., Davison, A.J. (2020). Whole-Genome Approach to Assessing Human Cytomegalovirus Dynamics in Transplant Patients Undergoing Antiviral Therapy *Front Cell Infect Microbiol* *10*,267. DOI: 10.3389/fcimb.2020.00267
- Szepes, M., Melchert, A., Dahlmann, J., Hegemann, J., Werlein, C., Jonigk, D., Haverich, A., Martin, U., Olmer, R., Gruh, I. (2020). Dual Function of iPSC-Derived Pericyte-Like Cells in Vascularization and Fibrosis-Related Cardiac Tissue Remodeling In Vitro. *Int J Mol Sci* *21*,8947. DOI: 10.3390/ijms21238947
- Tetzlaff, F., Epping, J., Golpon, H., Tetzlaff, J. (2020). Compression, expansion, or maybe both? Growing inequalities in lung cancer in Germany *PLoS One* *15*,e0242433. DOI: 10.1371/journal.pone.0242433
- Tewes, S., Hensen, B., Jablonka, A., Gawe, D., Kastikainen, M., Happle, C., Carlens, J., Berthold, L.D., Wacker, F. (2020). Tuberculosis screening during the 2015 European refugee crisis *BMC Public Health* *20*,200. DOI: 10.1186/s12889-020-8303-y
- Trudzinski, F.C., Jörres, R.A., Alter, P., Kahnert, K., Waschki, B., Herr, C., Kellerer, C., Omlor, A., Vogelmeier, C.F., Fähndrich, S., Watz, H., Welte, T., Jany, B., Söhler, S., Biertz, F., Herth, F., Kauczor, H.U., Bals, R., COSYCONET consortium. (2020). Associations of oxygenated hemoglobin with disease burden and prognosis in stable COPD: Results from COSYCONET. *Sci Rep* *10*,10544. DOI: 10.1038/s41598-020-67197-x
- Tumpara, S., Martinez-Delgado, B., Gomez-Mariano, G., Liu, B., DeLuca, D.S., Korenbaum, E., Jonigk, D., Jugert, F., Wurm, F.M., Wurm, M.J., Welte, T., Janciauskiene, S. (2020). The Delivery of alpha1-Antitrypsin Therapy Through Transepidermal Route: Worthwhile to Explore *Front Pharmacol* *11*,983. DOI: 10.3389/fphar.2020.00983
- van de Ven, A.A.J.M., Alfaro, T.M., Robinson, A., Baumann, U., Bergeron, A., Burns, S.O., Condliffe, A.M., Fevang, B., Gennery, A.R., Haerynck, F., Jacob, J., Jolles, S., Malphettes, M., Meignin, V., Milota, T., van Montfrans, J., Prasse, A., Quinti, I., Renzoni, E., Stolz, D., Warnatz, K., Hurst, J.R. (2020). Managing Granulomatous-Lymphocytic Interstitial Lung Disease in Common Variable Immunodeficiency Disorders: e-GLILDnet International Clinicians Survey *Front Immunol* *11*,606333. DOI: 10.3389/fimmu.2020.606333
- van Ingen, J., Aliberti, S., Andrejak, C., Chalmers, J.D., Codecasa, L.R., Daley, C.L., Hasegawa, N., Griffith, D.E., Hoefsloot, W., Huitt, G., Jarand, J., Jhun, B.W., Loebinger, M.R., Marras, T.K., Morimoto, K., Polverino, E., Ringshausen, F.C., Santin, M., Thomson, R., Wagner, D., Wallace, R.J., Winthrop, K.L., Yim, J.J., NTM-NET. (2021). Management of drug toxicity in *M. avium* complex pulmonary disease - an expert panel survey *Clin Infect Dis* *73*,e256-e259. DOI: 10.1093/cid/ciaa1361
- Veith, M., Tüffers, J., Peychev, E., Klemmer, A., Kotke, V., Janciauskiene, S., Wilhelm, S., Bals, R., Koczulla, A.R., Vogelmeier, C.F., Greulich, T. (2020). The Distribution of Alpha-1 Antitrypsin Genotypes Between Patients with COPD/Emphysema, Asthma and Bronchiectasis *Int J Chron Obstruct Pulmon Dis* *15*,2827-2836. DOI: 10.2147/COPD.S271810
- Verleden, S.E., Vanstapel, A., De Sadeleer, L., Weynand, B., Boone, M., Verbeken, E., Piloni, D., Van Raemdonck, D., Ackermann, M., Jonigk, D.D., Verschakelen, J., Wuyts, W.A. (2020). Quantitative analysis of airway obstruction in lymphangioleiomyomatosis *Eur Respir J* *56*,DOI: 10.1183/13993003.01965-2019
- Verleden, S.E., Von der Thüsen, J., Roux, A., Brouwers, E.S., Braubach, P., Kuehnel, M., Laenger, F., Jonigk, D. (2020). When tissue is the issue: A histological review of chronic lung allograft dysfunction. *Am J Transplant* *20*,2644-2651. DOI: 10.1111/ajt.15864
- Vogel-Claussen, J., Ley-Zaporozhan, J., Agarwal, P., Biederer, J., Kauczor, H.U., Ley, S., Kühl, H., Mueller-Lisse, U.G., Persigehl, T., Schlett, C.L., Wormanns, D., Antoch, G., Hamer, O.W. (2020). Empfehlungen der AG Thoraxdiagnostik der Deutschen Röntgengesellschaft zur klinischen Anwendung der Thoraxbildgebung und strukturierten CT-Befundung bei COVID-19-Pandemie. *Röfo* *192*,633-640. DOI: 10.1055/a-1174-8378
- Wiertz, I.A., Moll, S.A., Seeliger, B., Barlo, N.P., van der Vis, J.J., Korthagen, N.M., Rijkers, G.T., Ruven, H.J.T., Grutters, J.C., Prasse, A., van Moorsel, C.H.M. (2020). Genetic Variation in CCL18 Gene Influences CCL18 Expression and Correlates with Survival in Idiopathic Pulmonary Fibrosis: Part A *J Clin Med* *9*,DOI: 10.3390/jcm9061940
- Wilkinson, M., White, I.R., Hamshere, K., Holz, O., Schuchardt, S., Bellagambi, F.G., Lomonaco, T., Biagini, D., Di Francesco, F., Fowler, S.J. (2020). The peppermint breath test: a benchmarking protocol for breath sampling and analysis using GC-MS. *J Breath Res* DOI: 10.1088/1752-7163/abd28c
- Yazicioglu, T., Mühlfeld, C., Autilio, C., Huang, C.K., Bär, C., Dittrich-Breiholz, O., Thum, T., Perez-Gil, J., Schmiedl, A., Brandenberger, C. (2020). Aging impairs alveolar epithelial type II cell function in acute lung injury *Am J Physiol Lung Cell Mol Physiol* *319*,L755-L769. DOI: 10.1152/ajplung.00093.2020

Yogeswaran, A., Gall, H., Tello, K., Grünig, E., Xanthouli, P., Ewert, R., Kamp, J.C., Olsson, K.M., Wißmüller, M., Rosenkranz, S., Klose, H., Harbaum, L., Lange, T.J., Opitz, C.F., Waelde, A., Milger, K., Sommer, N., Seeger, W., Ghofrani, H.A., Richter, M.J. (2020). Impact of SARS-CoV-2 pandemic on pulmonary hypertension out-patient clinics in Germany: a multi-centre study. *Pulm Circ* 10,2045894020941682. DOI: 10.1177/2045894020941682

Zychlinsky Scharff, A., Schwerk, N., Baumann, U., Burmester, H., Carlens, J., Dopfer, C., Grewendorf, S., Mueller, C., Schütz, K., Voelker, M., Hansen, G., Happle, C., Wetzke, M. (2020). An apple a day won't keep the doctor away: presentation, treatment, and outcome in pediatric apple aspirations. *Pediatr Pulmonol* 55,1697-1704. DOI: 10.1002/ppul.24768

Leitlinien von Fachgesellschaften

Behr, J., Günther, A., Bonella, F., Dinkel, J., Fink, L., Geiser, T., Geissler, K., Gläser, S., Handzhiev, S., Jonigk, D., Koschel, D., Kreuter, M., Leuschner, G., Markart, P., Prasse, A., Schönfeld, N., Schupp, J.C., Sitter, H., Müller-Quernheim, J., Costabel, U. (2020). S2K-Leitlinie zur Diagnostik der idiopathischen Lungenfibrose. *Pneumologie* 74,263-293. DOI: 10.1055/a-1120-3531

Brunkhorst, F.M., Weigand, M.A., Pletz, M., Gastmeier, P., Lemmen, S.W., Meier-Hellmann, A., Ragaller, M., Weyland, A., Marx, G., Bucher, M., Gerlach, H., Salzberger, B., Grabein, B., Welte, T., Werdan, K., Kluge, S., Bone, H.G., Putensen, C., Rossaint, R., Quintel, M., Spies, C., Weiss, B., John, S., Oppert, M., Jörres, A., Brenner, T., Elke, G., Gründling, M., Mayer, K., Weimann, A., Felbinger, T.W., Axer, H., Deutsche Sepsis Gesellschaft e.V. (2020). S3-Leitlinie Sepsis - Prävention, Diagnose, Therapie und Nachsorge : Langfassung *Med Klin Intensivmed Notfmed* 115,37-109. DOI: 10.1007/s00063-020-00685-0

Delcroix, M., Torbicki, A., Gopalan, D., Sitbon, O., Klok, F.A., Lang, I., Jenkins, D., Kim, N.H., Humbert, M., Jais, X., Noordegraaf, A.V., Pepke-Zaba, J., Brenot, P., Dorfmueller, P., Fadel, E., Ghofrani, H.A., Hoeper, M.M., Jansa, P., Madani, M., Matsubara, H., Ogo, T., Grunig, E., D'Armini, A., Galie, N., Meyer, B., Corkery, P., Meszaros, G., Mayer, E., Simonneau, G. (2021). ERS Statement on Chronic Thromboembolic Pulmonary Hypertension. *Eur Respir J* 57,2002828. DOI: 10.1183/13993003.02828-2020

Kluge, S., Janssens, U., Welte, T., Weber-Carstens, S., Schälte, G., Salzberger, B., Gastmeier, P., Langer, F., Welper, M., Westhoff, M., Pfeifer, M., Hoffmann, F., Böttiger, B.W., Marx, G., Karagiannidis, C. (2020). Empfehlungen für die Behandlung von kritisch kranken Patienten mit COVID-19 : Version 3 S1-Leitlinie Anaesthesist DOI: 10.1007/s00101-020-00879-3

Rose, M.A., Barker, M., Liese, J., Adams, O., Ankermann, T., Baumann, U., Brinkmann, F., Bruns, R., Dahlheim, M., Ewig, S., Forster, J., Hofmann, G., Kemen, C., Lück, C., Nadal, D., Nüsslein, T., Regamey, N., Riedler, J., Schmidt, S., Schwerk, N., Seidenberg, J., Tenenbaum, T., Trapp, S., van der Linden, M. (2020). S2k-Leitlinie Management der ambulant erworbenen Pneumonie bei Kindern und Jugendlichen (pädiatrische ambulant erworbene Pneumonie, pCAP). *Pneumologie* 74,515-544. DOI: 10.1055/a-1139-5132

Übersichtsarbeiten

Brunkhorst, F.M., Weigand, M.A., Pletz, M., Gastmeier, P., Lemmen, S.W., Meier-Hellmann, A., Ragaller, M., Weyland, A., Marx, G., Bucher, M., Gerlach, H., Salzberger, B., Grabein, B., Welte, T., Werdan, K., Kluge, S., Bone, H.G., Putensen, C., Rossaint, R., Quintel, M., Spies, C., Weiss, B., John, S., Oppert, M., Jörres, A., Brenner, T., Elke, G., Gründling, M., Mayer, K., Weimann, A., Felbinger, T.W., Axer, H., Heller, T., Gagelmann, N., Deutsche Sepsis Gesellschaft e. V. (2020). S3-Leitlinie Sepsis - Prävention, Diagnose, Therapie und Nachsorge : Zusammenfassung starker Empfehlungen *Med Klin Intensivmed Notfmed* 115,178-188. DOI: 10.1007/s00063-020-00671-6

Herth, F., Hohlfeld, J.M., Haas, J., de la Hoz, A., Jin, X., Kreitner, K.F., Vogelmeier, C., Vogel-Claussen, J., Watz, H. (2020). The effect of tiotropium/olodaterol versus fluticasone propionate/salmeterol on left ventricular filling and lung hyperinflation in patients with COPD BMI *Open Respir Res* 7,DOI: 10.1136/bmjresp-2020-000741

Hirsch, F.W., Sorge, I., Vogel-Claussen, J., Roth, C., Gräfe, D., Päts, A., Voskrebenez, A., Anders, R.M. (2020). The current status and further prospects for lung magnetic resonance imaging in pediatric radiology. *Pediatr Radiol* 50,734-749. DOI: 10.1007/s00247-019-04594-z

Janciauskiene, S. (2020). The Beneficial Effects of Antioxidants in Health And Diseases. *Chronic Obstr Pulm Dis* 7,182-202. DOI: 10.15326/jcopdf.7.3.2019.0152

Kluge, S., Janssens, U., Welte, T., Weber-Carstens, S., Marx, G., Karagiannidis, C. (2020). Empfehlungen zur intensivmedizinischen Therapie von Patienten mit COVID19. *Med Klin Intensivmed Notfmed* 115,111-114. DOI: 10.1007/s00063-020-00689-w

Kluge, S., Janssens, U., Welte, T., Weber-Carstens, S., Marx, G., Karagiannidis, C. (2020). Empfehlungen zur intensivmedizinischen Therapie von Patienten mit COVID-19 *Med Klin Intensivmed Notfmed* 115,175-177. DOI: 10.1007/s00063-020-00674-3

Kluge, S., Janssens, U., Welte, T., Weber-Carstens, S., Schälte, G., Salzberger, B., Gastmeier, P., Langer, F., Wepler, M., Westhoff, M., Pfeifer, M., Hoffmann, F., Böttiger, B.W., Marx, G., Karagiannidis, C. (2020). Empfehlungen zur intensivmedizinischen Therapie von Patienten mit COVID-19 - 3. Version: S1-Leitlinie. *Pneumologie (Berl)* DOI: 10.1007/s10405-020-00359-w

Knudsen, L., Brandenberger, C., Ochs, M. (2021). Stereology as the 3D tool to quantitate lung architecture. *Histochem Cell Biol* 155,163-181. DOI: 10.1007/s00418-020-01927-0

Laws, H.J., Baumann, U., Bogdan, C., Burchard, G., Christopheit, M., Hecht, J., Heininger, U., Hilgendorf, I., Kern, W., Kling, K., Kobbe, G., Kulper, W., Lehrnbecher, T., Meisel, R., Simon, A., Ullmann, A., de Wit, M., Zepp, F. (2020). Impfen bei Immundefizienz : Anwendungshinweise zu den von der Ständigen Impfkommission empfohlenen Impfungen. (III) Impfen bei hämatologischen und onkologischen Erkrankungen (antineoplastische Therapie, Stammzelltransplantation), Organtransplantation und Asplenie Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz 63,588-644. DOI: 10.1007/s00103-020-03123-w

Lechowicz, U., Rudzinski, S., Jezela-Stanek, A., Janciauskiene, S., Chorostowska-Wynimko, J. (2020). Post-Translational Modifications of Circulating Alpha-1-Antitrypsin Protein *Int J Mol Sci* 21, DOI: 10.3390/ijms21239187

Lee, C., Klockgether, J., Fischer, S., Trcek, J., Tümmeler, B., Römling, U. (2020). Why? - Successful *Pseudomonas aeruginosa* clones with a focus on clone C *FEMS Microbiol Rev* 44,740-762. DOI: 10.1093/femsre/fuaa029

Ochs, M., Hegermann, J., Lopez-Rodriguez, E., Timm, S., Nouailles, G., Matuszak, J., Simmons, S., Witzernath, M., Kuebler, W.M. (2020). On Top of the Alveolar Epithelium: Surfactant and the Glycocalyx *Int J Mol Sci* 21, DOI: 10.3390/ijms21093075

Pletz, M.W., Blasi, F., Chalmers, J.D., Dela Cruz, C.S., Feldman, C., Luna, C.M., Ramirez, J.A., Shindo, Y., Stolz, D., Torres, A., Webb, B., Welte, T., Wunderink, R., Aliberti, S. (2020). International Perspective on the New 2019 American Thoracic Society/Infectious Diseases Society of America Community-Acquired Pneumonia Guideline: A Critical Appraisal by a Global Expert Panel *Chest* 158,1912-1918. DOI: 10.1016/j.chest.2020.07.089

Raidt, J., Brillault, J., Brinkmann, F., Jung, A., Koerner-Rettberg, C., Koitschev, A., Linz-Keul, H., Nüsslein, T., Ringshausen, F.C., Röhmel, J., Rosewich, M., Werner, C., Omran, H. (2020). Management der Primären Ciliären Dyskinesie *Pneumologie* 74,750-765. DOI: 10.1055/a-1235-1520

Ramirez, J.A., Musher, D.M., Evans, S.E., Dela Cruz, C., Crothers, K.A., Hage, C.A., Aliberti, S., Anzueto, A., Arancibia, F., Arnold, F., Azoulay, E., Blasi, F., Bordon, J., Burdette, S., Cao, B., Cavallazzi, R., Chalmers, J., Charles, P., Chastre, J., Claessens, Y.E., Dean, N., Duval, X., Fartoukh, M., Feldman, C., File, T., Froes, F., Furmanek, S., Gnoni, M., Lopardo, G., Luna, C., Maruyama, T., Menendez, R., Metersky, M., Mildvan, D., Mortensen, E., Niederman, M.S., Pletz, M., Rello, J., Restrepo, M.I., Shindo, Y., Torres, A., Waterer, G., Webb, B., Welte, T., Witzernath, M., Wunderink, R. (2020). Treatment of Community-Acquired Pneumonia in Immunocompromised Adults: A Consensus Statement Regarding Initial Strategies *Chest* 158,1896-1911. DOI: 10.1016/j.chest.2020.05.598

Ring, A.M., Carlens, J., Bush, A., Castillo-Corullon, S., Fasola, S., Gaboli, M.P., Griese, M., Koucky, V., La Grutta, S., Lombardi, E., Proesmans, M., Schwerk, N., Snijders, D., Nielsen, K.G., Buchvald, F. (2020). Pulmonary function testing in children's interstitial lung disease *Eur Respir Rev* 29, DOI: 10.1183/16000617.0019-2020

Ringshausen, F.C., Hellmuth, T., Dittrich, A.M. (2020). Was ist gesichert in der Therapie der Mukoviszidose? *Internist (Berl)* 61,1212-1229. DOI: 10.1007/s00108-020-00896-9

Schupp, J.C., Prasse, A., Erythropel, H.C. (2020). E-Zigaretten - Funktionsweise, Inhaltsstoffe und die Vaping-assoziierte akute Lungenschädigung *Pneumologie* 74,77-87. DOI: 10.1055/a-1078-8126

Sehlmeyer, K., Ruwisch, J., Roldan, N., Lopez-Rodriguez, E. (2020). Alveolar Dynamics and Beyond - The Importance of Surfactant Protein C and Cholesterol in Lung Homeostasis and Fibrosis *Front Physiol* 11,386. DOI: 10.3389/fphys.2020.00386

Tümmeler, B. (2020). Molecular epidemiology in current times *Environ Microbiol* 22,4909-4918. DOI: 10.1111/1462-2920.15238

Werlein, C., Seidel, A., Warnecke, G., Gottlieb, J., Laenger, F., Jonigk, D. (2020). Lung Transplant Pathology: An Overview on Current Entities and Procedures *Surg Pathol Clin* 13,119-140. DOI: 10.1016/j.path.2019.11.003

Letter

Abdo, M., Watz, H., Veith, V., Kirsten, A.M., Biller, H., Pedersen, F., von Mutius, E., Kopp, M.V., Hansen, G., Waschki, B., Rabe, K.F., Trinkmann, F., Bahmer, T. (2020). Small airway dysfunction as predictor and marker for clinical response to biological therapy in severe eosinophilic asthma: a longitudinal observational study. *Respir Res* 21,278. DOI: 10.1186/s12931-020-01543-5

Biederer, J., Ohno, Y., Hatabu, H., Schiebler, M.L., van Beek, E.J.R., Vogel-Claussen, J., Kauczor, H.U. (2020). "Screening for lung cancer: Does MRI have a role?" [*European Journal of Radiology* 86 (2017) 353-360] *Eur J Radiol* 125,108896. DOI: 10.1016/j.ejrad.2020.108896

Gloeckl, R., Nell, C., Schneeberger, T., Jarosch, I., Boensch, M., Watz, H., Wirtz, H., Welte, T., Kenn, K., Koczulla, A.R. (2020). Benefits of pulmonary rehabilitation in patients with advanced lymphangioleiomyomatosis (LAM) compared with COPD - a retrospective analysis. *Orphanet J Rare Dis* 15,255. DOI: 10.1186/s13023-020-01540-3

Holz, O., Waschki, B., Watz, H., Kirsten, A., Abdo, M., Pedersen, F., Weckmann, M., Fuchs, O., Dittrich, A.M., Hansen, G., Kopp, M.V., V Mutius, E., Rabe, K.F., Hohlfeld, J.M., Bahmer, T., ALLIANCE Study Group. (2021). Breath volatile organic compounds and inflammatory markers in adult asthma patients - negative results from the ALLIANCE cohort. *Eur Respir J* 57,2002127. DOI: 10.1183/13993003.02127-2020

Krowka, M., Cottreel, E., Hoeper, M.M., Kim, N.H., Martin, N., Sitbon, O., Bosch, J. (2020). Macitentan Improves Risk Categorization for Liver Transplant Mortality in Patients With Portopulmonary Hypertension: A PORTICO Study Post Hoc Analysis *Liver Transpl* 26,935-940. DOI: 10.1002/lt.25747

Meyer, B.C., Hinrichs, J.B., Ivanyi, P., Ehrlich, S., Greer, M., Hoeper, M.M., Busch, M. (2020). Extracorporeal portosystemic shunt in secondary Budd-Chiari syndrome *J Hepatol* 73,974-976. DOI: 10.1016/j.jhep.2020.05.038

Munidas, S., Couch, M.J., Rayment, J.H., Voskrebenev, A., Seethamraju, R., Vogel-Claussen, J., Ratjen, F., Santyr, G. (2021). Free-breathing MRI for Monitoring Ventilation Changes following Antibiotic Treatment of Pulmonary Exacerbations in Pediatric Cystic Fibrosis *Eur Respir J* 57,2003104. DOI: 10.1183/13993003.03104-2020

Olsson, K.M., Fuge, J., Brod, T., Kamp, J.C., Schmitto, J., Kempf, T., Bauersachs, J., Hoeper, M.M. (2020). Oral iron supplementation with ferric maltol in patients with pulmonary hypertension *Eur Respir J* 56, DOI: 10.1183/13993003.00616-2020

Stahl, K., Gronski, P.A., Kiyan, Y., Seeliger, B., Bertram, A., Pape, T., Welte, T., Hoeper, M.M., Haller, H., David, S. (2020). Injury to the Endothelial Glycocalyx in Critically Ill Patients with COVID-19 *Am J Respir Crit Care Med* 202,1178-1181. DOI: 10.1164/rccm.202007-2676LE

Wang, Y., Foo, R., Thum, T. (2020). Using "old" medications to fight new COVID-19: Re-purposing with a purpose *J Mol Cell Cardiol* 146,41-42. DOI: 10.1016/j.yjmcc.2020.07.005

Case reports

Janciauskienė, S., Royer, P.J., Fuge, J., Wrenger, S., Chorostowska-Wynimko, J., Falk, C., Welte, T., Reynaud-Gaubert, M., Roux, A., Tissot, A., Magnan, A. (2020). Plasma Acute Phase Proteins as Predictors of Chronic Lung Allograft Dysfunction in Lung Transplant Recipients *J Inflamm Res* 13,1021-1028. DOI: 10.2147/JIR.S272662

Kamp, J.C., Jonigk, D.D., Hinrichs, J.B., Hoeper, M.M., Schönhofer, B., Ernst, D., Welte, T., Suhling, H. (2020). Recurrent Life-threatening Pneumonitis in a 37-Year-Old Woman *Chest* 158,e127-e132. DOI: 10.1016/j.chest.2020.03.066

Pongpamorn, P., Dahlmann, J., Haase, A., Ebeling, C.T., Merkert, S., Göhring, G., Lachmann, N., Martens, A., Haverich, A., Martin, U., Olmer, R. (2020). Generation of three induced pluripotent stem cell lines (MHHi012-A, MHHi013-A, MHHi014-A) from a family with Loeys-Dietz syndrome carrying a heterozygous p.M253I (c.759G>A) mutation in the TGFBR1 gene. *Stem Cell Res* 43,101707. DOI: 10.1016/j.scr.2020.101707

Stahl, K., Bräsen, J.H., Hoeper, M.M., David, S. (2020). Direct evidence of SARS-CoV-2 in gut endothelium *Intensive Care Med* 46,2081-2082. DOI: 10.1007/s00134-020-06237-6

Winter, L., Naumann, F., Olsson, K., Fuge, J., Hoeper, M.M., Kahl, K.G. (2020). Metacognitive Therapy for Adjustment Disorder in a Patient With Newly Diagnosed Pulmonary Arterial Hypertension: A Case Report *Front Psychol* 11,143. DOI: 10.3389/fpsyg.2020.00143

Comments

Ackermann, M., Mentzer, S.J., Jonigk, D. (2020). Pulmonary Vascular Pathology in Covid-19. Reply. *N Engl J Med* 383,888-889. DOI: 10.1056/NEJMc2022068

Ackermann, M., Mentzer, S.J., Jonigk, D. (2020). Visualization of SARS-CoV-2 in the Lung. Reply. *N Engl J Med* 383,2689-2690. DOI: 10.1056/NEJMc2030450

Lopez-Rodriguez, E., Ochs, M. (2020). Reply to: Comments on "Air Space Distension Precedes Spontaneous Fibrotic Remodeling and Impaired Cholesterol Metabolism in the Absence of Surfactant Protein C". *Am J Respir Cell Mol Biol* 63,399-402. DOI: 10.1165/rcmb.2020-0158LE

Editorials

Ackermann, M., Mentzer, S.J., Kolb, M., Jonigk, D. (2020). Inflammation and intussusceptive angiogenesis in COVID-19: everything in and out of flow *Eur Respir J* 56, DOI: 10.1183/13993003.03147-2020

Behr, J., Hoeper, M.M. (2020). Subtle signs - red flags. *Eur Respir J* 55, 2000606 [pii]. DOI: 10.1183/13993003.00606

Boyle, E.C., Haverich, A. (2020). Microvasculature dysfunction as the common thread between atherosclerosis, Kawasaki disease, and severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)-associated multi-system inflammatory syndrome in children *Eur J Cardiothorac Surg* 58, 1109-1110. DOI: 10.1093/ejcts/ezaa367

Burchert, D., Haller, H., Marker-Hermann, E., Sieber, C., Welte, T. (2020). Hausärztliche Medizin - Teil I : Praxisorientierte Diagnose- und Behandlungspfade Internist (Berl) 67, 1-2. DOI: 10.1007/s00108-019-00731-w

Fong, K.M., Welte, T., Forum of International Respiratory Societies (FIRS). (2020). World Lung Day: what, why, and where to? *Am J Physiol Lung Cell Mol Physiol* 379, L527-L533. DOI: 10.1152/ajplung.00364.2020

Gaga, M., Stolz, D., Chorostowska-Wynimko, J., Welte, T., Simonds, A. (2020). Respiratory medicine is not gender blind *Eur Respir J* 55, DOI: 10.1183/13993003.01847-2019

Hoeper, M.M. (2020). Exercise Pulmonary Hypertension Is Back. *J Am Coll Cardiol* 75, 27-28. DOI: 10.1016/j.jacc.2019.11.010

Hoeper, M.M. (2020). Pulmonary Artery Denervation: The New Kid on the Block? *J Am Coll Cardiol* 76, 927-929. DOI: 10.1016/j.jacc.2020.06.06

Orihuela, C.J., Maus, U.A., Brown, J.S. (2020). Can animal models really teach us anything about pneumonia? *Pro Eur Respir J* 55, DOI: 10.1183/13993003.01539-2019

Salzberger, B., Welte, T. (2020). COVID-19 - eine neue und vielseitige Herausforderung *Internist (Berl)* 67, 773-775. DOI: 10.1007/s00108-020-00851-8

Salzberger, B., Welte, T. (2020). Sepsis - es bleibt weiterhin viel zu tun *Internist (Berl)* 67, 995-996. DOI: 10.1007/s00108-020-00866-1

Tzankov, A., Jonigk, D. (2020). Unlocking the lockdown of science and demystifying COVID-19: how autopsies contribute to our understanding of a deadly pandemic. *Virchows Arch* 477, 331-333. DOI: 10.1007/s00428-020-02887-5

Abstracts

Ius, F., Schibilsky, D., Sponga, S., Rojas, S.V., Benk, C., Guzzi, G., Tursi, V., Beyersdorf, F., Haverich, A., Warnecke, G., Siepe, M., Livi, U. (2020). Heart Preservation with the Organ Care System in Extended Criteria Donor Hearts: A Three-Center Experience. *J Heart Lung Transplant* 39, S265. DOI: 10.1016/j.healun.2020.01.578

Kühne, J.F., Wandrer, F., Wiegmann, B., Ledwoch, N., Sanz, R.B., Beushausen, K., Keil, J., Ius, F., Sommer, W., Rochas-Hernandez, S., Kühn, C., Tudorache, I., Avsar, M., Haverich, A., Warnecke, G., Falk, C.S. (2020). In Combined Heart/Lung Transplantation, the Reperfusion Response in Recipients is Dominated by Heart-Associated Cytokine and Endothelial Patterns While the Ischemic Injury in the Storage Solution is Dominated by a Lung-Associated Microenvironment. *J Heart Lung Transplant* 39, S288-S289. DOI: 10.1016/j.healun.2020.01.638

Rojas, S.V., Ius, F., Schibilsky, D., Kaufeld, T., Benk, C., Sommer, W., Goecke, T., Avsar, M., Poyanmehr, R., Rümke, S., Mogaldea, A., Bobylev, D., Salman, J., Siemeni, T., Bara, C., Beyersdorf, F., Haverich, A., Siepe, M., Warnecke, G. (2020). Ex Vivo Organ Perfusion for Heart Procurement in High-Risk Transplantations: A Multicenter Study. *J Heart Lung Transplant* 39, S135. DOI: 10.1016/j.healun.2020.01.1044

Sponga, S., Ius, F., Ferrara, V., Royas, S., Guzzi, G., Lechiancole, A., Sommer, W., Kaufeld, T., Haverich, A., Livi, U., Warnecke, G. (2020). Normothermic Ex-Vivo Perfusion for Donor Heart Preservation in Transplantation of Patients Bridged with Ventricular Assist Devices. *J Heart Lung Transplant* 39, S245. DOI: 10.1016/j.healun.2020.01.926

sonstiges

Agne, A., Richter, K., Tumpara, S., Sauer, A.L., Beckert, F., Wrenger, S., Zakrzewicz, A., Hecker, A., Markmann, M., Koch, C., Zajonz, T., Sander, M., Böning, A., Padberg, W., Janciauskiene, S., Grau, V. (2020). Does heart surgery change the capacity of alpha1-antitrypsin to inhibit the ATP-induced release of monocytic interleukin-1beta? A preliminary study *Int Immunopharmacol* 87, 106297. DOI: 10.1016/j.intimp.2020.106297

Behrends, M., Hoffmann, I., Marscholke, M., HiGHmededucation Consortium. (2020). Teamwork, communication and exchange despite Covid-19 – experiences from a digital elective in human medicine studies as part of the HiGHmed project. *GMS J Med Educ* 37,Doc86. DOI: 10.3205/zma001379

Kahnert, K., Föhrenbach, M., Lucke, T., Alter, P., Trudzinski, F.T., Bals, R., Lutter, J.I., Timmermann, H., Söhler, S., Förderreuther, S., Nowak, D., Watz, H., Waschki, B., Behr, J., Welte, T., Vogelmeier, C.F., Jorres, R.A. (2020). The impact of COPD on polyneuropathy: results from the German COPD cohort COSYCONET. *Respir Res* 21,28. DOI: 10.1186/s12931-020-1293-6

Karagiannidis, C., Mostert, C., Hentschker, C., Voshaar, T., Malzahn, J., Schillinger, G., Klauber, J., Janssens, U., Marx, G., Weber-Carstens, S., Kluge, S., Pfeifer, M., Grabenhenrich, L., Welte, T., Busse, R. (2020). Case characteristics, resource use, and outcomes of 10 021 patients with COVID-19 admitted to 920 German hospitals: an observational study *Lancet Respir Med* 8,853-862. DOI: 10.1016/S2213-2600(20)30316-7

Siddall, H., Quint, D., Pandya, H., Powley, W., Shabbir, S., Hohlfeld, J.M., Singh, D., Lee, L. (2020). Intranasal GSK2245035, a Toll-like receptor 7 agonist, does not attenuate the allergen-induced asthmatic response in a randomized, double-blind, placebo-controlled experimental medicine study *PLoS One* 15,e0240964. DOI: 10.1371/journal.pone.0240964

Watz, H., Hohlfeld, J.M., Singh, D., Beier, J., Diamant, Z., Liu, J., Hua, S., Abd-Elaziz, K., Pinot, P., Jones, I., Tillmann, H.C. (2020). Letter to the editor: indacaterol/glycopyrronium/mometasone furoate compared with salmeterol/fluticasone propionate in patients with asthma: a randomized controlled cross-over study *Respir Res* 21,87. DOI: 10.1186/s12931-020-01349-5

Epidemiologie – 9642

Originalpublikationen

Kuhlmann, E., Falkenbach, M., Klasa, K., Pavolini, E., Ungureanu, M.I. (2020). Migrant carers in Europe in times of COVID-19: a call to action for European health workforce governance and a public health approach *Eur J Public Health* 30,iv22-iv27. DOI: 10.1093/eurpub/ckaa126

Editorials

Kuhlmann, E., Dussault, G., Wismar, M. (2020). Health labour markets and the 'human face' of the health workforce: resilience beyond the COVID-19 pandemic *Eur J Public Health* 30,iv1-iv2. DOI: 10.1093/eurpub/ckaa122

Abstracts

Kuhlmann, E., Burau, V., Falkenbach, M., Klasa, K., Pavolini, E. (2020). Migrant carers in Europe: double jeopardy of labour market exploitation and hostile environments. *Eur J Public Health* 30,v44. DOI: 10.1093/eurpub/ckaa165.107

Kuhlmann, E., Ernst, D., Jablonka, A. (2020). The specialised health workforce matters: how to adapt the WHO National Health Workforce Accounts. *Eur J Public Health* 30,v289. DOI: 10.1093/eurpub/ckaa165.788

Experimentelle Immunologie

Originalpublikationen

Ascierto, P.A., Del Vecchio, M., Mackiewicz, A., Robert, C., Chiarion-Sileni, V., Arance, A., Lebbe, C., Svane, I.M., McNeil, C., Rutkowski, P., Loquai, C., Mortier, L., Hamid, O., Bastholt, L., Dreno, B., Schadendorf, D., Garbe, C., Nyakas, M., Grob, J.J., Thomas, L., Liskay, G., Smylie, M., Hoeller, C., Ferraresi, V., Grange, F., Gutzmer, R., Pikiel, J., Hosein, F., Simsek, B., Maio, M. (2020). Overall survival at 5 years of follow-up in a phase III trial comparing ipilimumab 10 mg/kg with 3 mg/kg in patients with advanced melanoma *J Immunother Cancer* 8,DOI: 10.1136/jitc-2019-000391

Exzellenzcluster Hearing4All

Originalpublikationen

Janzen-Senn, I., Schuon, R.A., Tavassol, F., Lenarz, T., Paasche, G. (2020). Dimensions and position of the Eustachian tube in Humans *PLoS One* 15:e0232655. DOI: 10.1371/journal.pone.0232655

Marcoleta, J.P., Nogueira, W., Yoma, N.B., Wuth, J., Jakimovski, F., Fuenzalida, V.M., Doll, T. (2020). Implantable Neuroamplifiers for Electroencephalography Using Flexible and Biocompatible Technology. *Phys Status Solidi A* 217,1900830. DOI: 10.1002/pssa.201900830

Schwieger, J., Hamm, A., Gepp, M.M., Schulz, A., Hoffmann, A., Lenarz, T., Scheper, V. (2020). Alginate-encapsulated brain-derived neurotrophic factor-overexpressing mesenchymal stem cells are a promising drug delivery system for protection of auditory neurons *J Tissue Eng* 11,2041731420911313. DOI: 10.1177/2041731420911313

Tahmasebi, S., Gajecki, T., Nogueira, W. (2020). Design and Evaluation of a Real-Time Audio Source Separation Algorithm to Remix Music for Cochlear Implant Users *Front Neurosci* 14,434. DOI: 10.3389/fnins.2020.00434

Wardenga, N., Diedrich, V., Waldmann, B., Lenarz, T., Maier, H. (2020). Hearing Aid Treatment in Patients with Mixed Hearing Loss. Part I: Expected Benefit and Limitations after Stapes Surgery *Audiol Neurootol* 25,125-132. DOI: 10.1159/000502994

Wardenga, N., Snik, A.F.M., Kludt, E., Waldmann, B., Lenarz, T., Maier, H. (2020). Hearing Aid Treatment for Patients with Mixed Hearing Loss. Part II: Speech Recognition in Comparison to Direct Acoustic Cochlear Stimulation *Audiol Neurootol* 25,133-142. DOI: 10.1159/000504285

Zimmermann, D., Busch, S., Lenarz, T., Maier, H. (2020). Audiological Results with the SAMBA Audio Processor in Comparison to the Amade for the Vibrant Soundbridge *Audiol Neurootol* 25,164-172. DOI: 10.1159/000506067

Exzellenzcluster RESIST

Originalpublikationen

Bankwitz, D., Bahai, A., Labuhn, M., Doepke, M., Ginkel, C., Khera, T., Todt, D., Ströh, L.J., Dold, L., Klein, F., Klawonn, F., Krey, T., Behrendt, P., Cornberg, M., McHardy, A.C., Pietschmann, T. (2021). Hepatitis C reference viruses highlight potent antibody responses and diverse viral functional interactions with neutralising antibodies *Gut* 70,1734-1745. DOI: 10.1136/gutjnl-2020-321190

Behrens, G.M.N., Cossmann, A., Stankov, M.V., Schulte, B., Streeck, H., Förster, R., Bosnjak, B., Willenzon, S., Boeck, A.L., Thu Tran, A., Thiele, T., Graalman, T., Kayser, M.Z., Zychlinsky Scharff, A., Dopfer, C., Horke, A., Pink, I., Witte, T., Wetzke, M., Ernst, D., Jablonka, A., Happle, C. (2020). Strategic Anti-SARS-CoV-2 Serology Testing in a Low Prevalence Setting: The COVID-19 Contact (CoCo) Study in Healthcare Professionals *Infect Dis Ther* 9,837-849. DOI: 10.1007/s40121-020-00334-1

Blockus, S., Sake, S.M., Wetzke, M., Grethe, C., Graalman, T., Pils, M., Le Goffic, R., Galloux, M., Prochnow, H., Rox, K., Hüttel, S., Rucic, Z., Wiegmann, B., Dijkman, R., Rameix-Welti, M.A., Eleouet, J.F., Duprex, W.P., Thiel, V., Hansen, G., Brönstrup, M., Haid, S., Pietschmann, T. (2020). Labyrinthopeptins as virolytic inhibitors of respiratory syncytial virus cell entry *Antiviral Res* 177,104774. DOI: 10.1016/j.antiviral.2020.104774

Boal-Carvalho, I., Mazel-Sanchez, B., Silva, F., Garnier, L., Yildiz, S., Bonifacio, J.P., Niu, C., Williams, N., Francois, P., Schwerck, N., Schöning, J., Carlens, J., Viemann, D., Hugues, S., Schmolke, M. (2020). Influenza A viruses limit NLRP3-NEK7-complex formation and pyroptosis in human macrophages *EMBO Rep* 21,e50421. DOI: 10.15252/embr.202050421

Bodda, C., Reinert, L.S., Fruhwürth, S., Richardo, T., Sun, C., Zhang, B.C., Kalamvoki, M., Pohlmann, A., Mogensen, T.H., Bergstrom, P., Agholme, L., O'Hare, P., Sodeik, B., Gyrd-Hansen, M., Zetterberg, H., Paludan, S.R. (2020). HSV1 VP1-2 deubiquitinates STING to block type I interferon expression and promote brain infection. *J Exp Med* 217,e20191422 [pii]. DOI: 10.1084/jem.20191422

Bosnjak, B., Stein, S.C., Willenzon, S., Cordes, A.K., Puppe, W., Bernhardt, G., Ravens, I., Ritter, C., Schultze-Florey, C.R., Gödecke, N., Martens, J., Kleine-Weber, H., Hoffmann, M., Cossmann, A., Yilmaz, M., Pink, I., Hoepfer, M.M., Behrens, G.M.N., Pöhlmann, S., Blasczyk, R., Schulz, T.F., Forster, R. (2021). Low serum neutralizing anti-SARS-CoV-2 S antibody levels in mildly affected COVID-19 convalescent patients revealed by two different detection methods *Cell Mol Immunol* 18,936-944. DOI: 10.1038/s41423-020-00573-9

- Brown, R.J.P., Tegtmeyer, B., Sheldon, J., Khera, T., Anggakusuma, Todt, D., Vieyres, G., Weller, R., Joecks, S., Zhang, Y., Sake, S., Bankwitz, D., Welsch, K., Ginkel, C., Engelmann, M., Gerold, G., Steinmann, E., Yuan, Q., Ott, M., Vondran, F.W.R., Krey, T., Ströh, L.J., Miskey, C., Ivics, Z., Herder, V., Baumgärtner, W., Lauber, C., Seifert, M., Tarr, A.W., McClure, C.P., Randall, G., Baktash, Y., Ploss, A., Thi, V.L.D., Michailidis, E., Saeed, M., Verhoye, L., Meuleman, P., Goedecke, N., Wirth, D., Rice, C.M., Pietschmann, T. (2020). Liver-expressed Cd302 and Cr11 limit hepatitis C virus cross-species transmission to mice *Sci Adv* *6*, DOI: 10.1126/sciadv.abd3233
- Carpentier, A., Sheldon, J., Vondran, F.W.R., Brown, R.J., Pietschmann, T. (2020). Efficient acute and chronic infection of stem cell-derived hepatocytes by hepatitis C virus. *Gut* *69*, 1659-1666. DOI: 10.1136/gutjnl-2019-319354
- de Araujo, L.S., Pessler, K., Sühs, K.W., Novoselova, N., Klawonn, F., Kuhn, M., Kaever, V., Müller-Vahl, K., Trebst, C., Skripuletz, T., Stangel, M., Pessler, F. (2020). Phosphatidylcholine PC ae C44:6 in cerebrospinal fluid is a sensitive biomarker for bacterial meningitis *J Transl Med* *18*, 9. DOI: 10.1186/s12967-019-02179-w
- Do, L., Granasen, G., Hellman, U., Lejon, K., Geijer, M., Baraliakos, X., Witte, T., Forsblad-d'Elia, H. (2021). Anti-CD74 IgA autoantibodies in radiographic axial spondyloarthritis; a longitudinal Swedish study. *Rheumatology (Oxford)* *60*, 4085-4093. DOI: 10.1093/rheumatology/keaa882
- Elsner, C., Ponnurangam, A., Kazmierski, J., Zillinger, T., Jansen, J., Todt, D., Döhner, K., Xu, S., Ducroux, A., Kriedemann, N., Malassa, A., Larsen, P.K., Hartmann, G., Barchet, W., Steinmann, E., Kalinke, U., Sodeik, B., Goffinet, C. (2020). Absence of cGAS-mediated type I IFN responses in HIV-1-infected T cells *Proc Natl Acad Sci U S A* *117*, 19475-19486. DOI: 10.1073/pnas.2002481117
- Fichtner, A.S., Bubke, A., Rampoldi, F., Wilharm, A., Tan, L., Steinbrück, L., Schultze-Florey, C., von Kaisenberg, C., Prinz, I., Herrmann, T., Ravens, S. (2020). TCR repertoire analysis reveals phosphoantigen-induced polyclonal proliferation of Vgamma9Vdelta2 T cells in neonates and adults. *J Leukoc Biol* *107*, 1023-1032. DOI: 10.1002/JLB.1MA0120-427RR
- Förster, R., Fleige, H., Sutter, G. (2020). Combating COVID-19: MVA Vector Vaccines Applied to the Respiratory Tract as Promising Approach Toward Protective Immunity in the Lung. *Front Immunol* *11*, 1959. DOI: 10.3389/fimmu.2020.01959
- Gabaev, I., Williamson, J.C., Crozier, T.W.M., Schulz, T.F., Lehner, P.J. (2020). Quantitative Proteomics Analysis of Lytic KSHV Infection in Human Endothelial Cells Reveals Targets of Viral Immune Modulation *Cell Rep* *33*, 108249. DOI: 10.1016/j.celrep.2020.108249
- Häge, S., Sonntag, E., Borst, E.M., Tannig, P., Seyler, L., Bäuerle, T., Bailer, S.M., Lee, C.P., Müller, R., Wangen, C., Milbradt, J., Marschall, M. (2020). Patterns of Autologous and Nonautologous Interactions Between Core Nuclear Egress Complex (NEC) Proteins of alpha-, beta- and gamma-Herpesviruses *Viruses* *12*, 303. DOI: 10.3390/v12030303
- Hensel, N., Raker, V., Förthmann, B., Buch, A., Sodeik, B., Pich, A., Claus, P. (2020). The Proteome and Secretome of Cortical Brain Cells Infected With Herpes Simplex Virus. *Front Neurol* *11*, 844. DOI: 10.3389/fneur.2020.00844
- Jirmo, A.C., Busse, M., Happle, C., Skuljec, J., Dalüge, K., Habener, A., Grychtol, R., DeLuca, D.S., Breiholz, O.D., Prinz, I., Hansen, G. (2020). IL-17 regulates DC migration to the peribronchial LNs and allergen presentation in experimental allergic asthma *Eur J Immunol* *50*, 1019-1033. DOI: 10.1002/eji.201948409
- Jirmo, A.C., Rossdam, C., Grychtol, R., Happle, C., Gerardy-Schahn, R., Buettner, F.F.R., Hansen, G. (2020). Differential expression patterns of glycosphingolipids and C-type lectin receptors on immune cells in absence of functional regulatory T cells *Immun Inflamm Dis* *8*, 512-522. DOI: 10.1002/iid3.334
- Kirsch, P., Jakob, V., Elgaher, W.A.M., Walt, C., Oberhausen, K., Schulz, T.F., Empting, M. (2020). Discovery of Novel Latency-Associated Nuclear Antigen Inhibitors as Antiviral Agents Against Kaposi's Sarcoma-Associated Herpesvirus *ACS Chem Biol* *15*, 388-395. DOI: 10.1021/acscchembio.9b00845
- Kirsch, P., Stein, S.C., Berwanger, A., Rinkes, J., Jakob, V., Schulz, T.F., Empting, M. (2020). Hit-to-lead optimization of a latency-associated nuclear antigen inhibitor against Kaposi's sarcoma-associated herpesvirus infections *Eur J Med Chem* *202*, 112525. DOI: 10.1016/j.ejmech.2020.112525
- Kopfnagel, V., Dreyer, S., Baumert, K., Stark, M., Harder, J., Hofmann, K., Kleine, M., Buch, A., Sodeik, B., Werfel, T. (2020). RNase 7 promotes sensing of self-DNA by human keratinocytes and activates an antiviral immune response *J Invest Dermatol* *140*, 1589-1598.e3. DOI: 10.1016/j.jid.2019.09.029
- Kropp, K.A., Lopez-Munoz, A.D., Ritter, B., Martin, R., Rastrojo, A., Srivaratharajan, S., Döhner, K., Dhingra, A., Czechowicz, J.S., Nagel, C.H., Sodeik, B., Alcami, A., Viejo-Borbolla, A. (2020). Herpes Simplex Virus 2 Counteracts Neurite Outgrowth Repulsion during Infection in a Nerve Growth Factor-Dependent Manner *J Virol* *94*, DOI: 10.1128/JVI.01370-20

Lang, J., Bohn, P., Bhat, H., Jastrow, H., Walkenfort, B., Cansiz, F., Fink, J., Bauer, M., Olszewski, D., Ramos-Nascimento, A., Duhan, V., Friedrich, S.K., Becker, K.A., Krawczyk, A., Edwards, M.J., Burchert, A., Huber, M., Friebe-Kardash, J., Göthert, J.R., Hardt, C., Probst, H.C., Schumacher, F., Köhrer, K., Kleuser, B., Babychuk, E.B., Sodeik, B., Seibel, J., Greber, U.F., Lang, P.A., Gulbins, E., Lang, K.S. (2020). Acid ceramidase of macrophages traps herpes simplex virus in multivesicular bodies and protects from severe disease. *Nat Commun* 11,1338. DOI: 10.1038/s41467-020-15072-8

Lotke, R., Schneeweiss, U., Pietrek, M., Günther, T., Grundhoff, A., Weidner-Glunde, M., Schulz, T.F. (2020). Brd/BET Proteins Influence the Genome-Wide Localization of the Kaposi's Sarcoma-Associated Herpesvirus and Murine Gammaherpesvirus Major Latency Proteins *Front Microbiol* 11,591778. DOI: 10.3389/fmicb.2020.591778

Machtens, D.A., Willerding, J.M., Eschenburg, S., Reubold, T.F. (2020). Crystal structure of the metaeffector Mesl (Lpg2505) from *Legionella pneumophila* *Biochem Biophys Res Commun* 527,696-701. DOI: 10.1016/j.bbrc.2020.05.027

Martens, R., Permanyer, M., Werth, K., Yu, K., Braun, A., Halle, O., Halle, S., Patzer, G.E., Bosnjak, B., Kiefer, F., Janssen, A., Friedrichsen, M., Poetzsch, J., Kohli, K., Lueder, Y., Gutierrez Jauregui, R., Eckert, N., Worbs, T., Galla, M., Förster, R. (2020). Efficient homing of T cells via afferent lymphatics requires mechanical arrest and integrin-supported chemokine guidance. *Nat Commun* 11,1114. DOI: 10.1038/s41467-020-14921-w

Mulas, F., Wang, X., Song, S., Nishanth, G., Yi, W., Brunn, A., Larsen, P.K., Isermann, B., Kalinke, U., Barragan, A., Naumann, M., Deckert, M., Schlüter, D. (2021). The deubiquitinase OTUB1 augments NF-kappaB-dependent immune responses in dendritic cells in infection and inflammation by stabilizing UBC13 *Cell Mol Immunol* 18,1512-1527. DOI: 10.1038/s41423-020-0362-6

Niehaus, C.E., Strunz, B., Cornillet, M., Falk, C.S., Schnieders, A., Maasoumy, B., Hardtke, S., Manns, M.P., Rm Kraft, A., Björkström, N.K., Cornberg, M. (2020). MAIT cells are enriched and highly functional in ascites of patients with decompensated liver cirrhosis *Hepatology* 72,1378-1393. DOI: 10.1002/hep.31153

Nikolova, G., Weiss, S., Bosnjak, B., Förster, R. (2021). Differential retention of lymph-borne CD8 memory T cell subsets in the subcapsular sinus of resting and inflamed lymph nodes. *Cell Mol Immunol* 18,1317-1319. DOI: 10.1038/s41423-020-0451-6

Odak, I., Barros-Martins, J., Bosnjak, B., Stahl, K., David, S., Wiesner, O., Busch, M., Hoepfer, M.M., Pink, I., Welte, T., Cornberg, M., Stoll, M., Goudeva, L., Blasczyk, R., Ganser, A., Prinz, I., Förster, R., Koenecke, C., Schultze-Florey, C.R. (2020). Reappearance of effector T cells is associated with recovery from COVID-19 *EBioMedicine* 57,102885. DOI: 10.1016/j.ebiom.2020.102885

Ravens, S., Fichtner, A.S., Willers, M., Torkornoo, D., Pirr, S., Schöning, J., Deseke, M., Sandrock, I., Bubke, A., Wilharm, A., Doodoo, D., Egyir, B., Flanagan, K.L., Steinbrück, L., Dickinson, P., Ghazal, P., Adu, B., Viemann, D., Prinz, I. (2020). Microbial exposure drives polyclonal expansion of innate gammadelta T cells immediately after birth. *Proc Natl Acad Sci U S A* 117,18649-18660. DOI: 10.1073/pnas.1922588117

Sogkas, G., Dubrowskaja, N., Adriawan, I.R., Anim, M., Witte, T., Schmidt, R.E., Atschekzei, F. (2020). High frequency of variants in genes associated with primary immunodeficiencies in patients with rheumatic diseases with secondary hypogammaglobulinaemia *Ann Rheum Dis* DOI: 10.1136/annrheumdis-2020-218280

Suarez, N.M., Blyth, E., Li, K., Ganzenmueller, T., Camiolo, S., Avdic, S., Withers, B., Linnenweber-Held, S., Gwinner, W., Dhingra, A., Heim, A., Schulz, T.F., Gunson, R., Gottlieb, D., Slobodman, B., Davison, A.J. (2020). Whole-Genome Approach to Assessing Human Cytomegalovirus Dynamics in Transplant Patients Undergoing Antiviral Therapy *Front Cell Infect Microbiol* 10,267. DOI: 10.3389/fcimb.2020.00267

Willers, M., Ulas, T., Völlger, L., Vogl, T., Heinemann, A.S., Pirr, S., Pagel, J., Fehlhaber, B., Halle, O., Schöning, J., Schreek, S., Löber, U., Essex, M., Hombach, P., Graspeuntner, S., Basic, M., Bleich, A., Cloppenburg-Schmidt, K., Künzel, S., Jonigk, D., Rupp, J., Hansen, G., Förster, R., Baines, J.F., Härtel, C., Schultze, J.L., Forslund, S.K., Roth, J., Viemann, D. (2020). S100A8 and S100A9 are Important for Post-natal Development of Gut Microbiota and Immune System in Mice and Infants *Gastroenterology* 159,2130-2145.e5. DOI: 10.1053/j.gastro.2020.08.019

Übersichtsarbeiten

Glebe, D., Goldmann, N., Lauber, C., Seitz, S. (2020). HBV evolution and genetic variability: Impact on prevention, treatment and development of antivirals *Antiviral Res* 186,104973. DOI: 10.1016/j.antiviral.2020.104973

Ruan, J., Schlüter, D., Wang, X. (2020). Deubiquitinating enzymes (DUBs): DoUBLE-edged swords in CNS autoimmunity. *J Neuroinflammation* 17,102. DOI: 10.1186/s12974-020-01783-8

Wachs, A.S., Bohne, J. (2021). Two sides of the same medal: Noncoding mutations reveal new pathological mechanisms and insights into the regulation of gene expression *Wiley Interdiscip Rev RNA* 12,e1616. DOI: 10.1002/wrna.1616

Letter

Sogkas, G., Hirsch, S., Jablonka, A., Witte, T., Schmidt, R.E., Atsckezei, F. (2020). Dupilumab to treat severe atopic dermatitis in autosomal dominant hyper-IgE syndrome. *Clin Immunol* 215,108452. DOI: 10.1016/j.clim.2020.108452

Hannover Unified Biobank (HUB) – 9160

Originalpublikationen

Cuellar-Partida, G., Tung, J.Y., Eriksson, N., Albrecht, E., Aliev, F., Andreassen, O.A., Barroso, I., Beckmann, J.S., Boks, M.P., Boomsma, D.I., Boyd, H.A., Breteler, M.M.B., Campbell, H., Chasman, D.I., Cherkas, L.F., Davies, G., de Geus, E.J.C., Deary, I.J., Deloukas, P., Dick, D.M., Duffy, D.L., Eriksson, J.G., Esko, T., Feenstra, B., Geller, F., Gieger, C., Giegling, I., Gordon, S.D., Han, J., Hansen, T.F., Hartmann, A.M., Hayward, C., Heikkilä, K., Hicks, A.A., Hirschhorn, J.N., Hottenga, J.J., Huffman, J.E., Hwang, L.D., Ikram, M.A., Kaprio, J., Kemp, J.P., Khaw, K.T., Klopp, N., Konte, B., Kutalik, Z., Lahti, J., Li, X., Loos, R.J.F., Luciano, M., Magnusson, S.H., Mangino, M., Marques-Vidal, P., Martin, N.G., McArdle, W.L., McCarthy, M.I., Medina-Gomez, C., Melbye, M., Melville, S.A., Metspalu, A., Milani, L., Mooser, V., Nelis, M., Nyholt, D.R., O'Connell, K.S., Ophoff, R.A., Palmer, C., Palotie, A., Palviainen, T., Pare, G., Paternoster, L., Peltonen, L., Penninx, B.W.J.H., Polasek, O., Pramstaller, P.P., Prokopenko, I., Raikonen, K., Ripatti, S., Rivadeneira, F., Rudan, I., Rujescu, D., Smit, J.H., Smith, G.D., Smoller, J.W., Soranzo, N., Spector, T.D., Pourcain, B.S., Starr, J.M., Stefansson, H., Steinberg, S., Teder-Laving, M., Thorleifsson, G., Stefansson, K., Timpson, N.J., Uitterlinden, A.G., van Duijn, C.M., van Rooij, F.J.A., Vink, J.M., Vollenweider, P., Vuoksima, E., Waeber, G., Wareham, N.J., Warrington, N., Waterworth, D., Werge, T., Wichmann, H.E., Widen, E., Willemsen, G., Wright, A.F., Wright, M.J., Xu, M., Zhao, J.H., Kraft, P., Hinds, D.A., Lindgren, C.M., Mägi, R., Neale, B.M., Evans, D.M., Medland, S.E. (2021). Genome-wide association study identifies 48 common genetic variants associated with handedness *Nat Hum Behav* 5,59-70. DOI: 10.1038/s41562-020-00956-y

Holz, O., DeLuca, D.S., Roepcke, S., Illig, T., Weinberger, K.M., Schudt, C., Hohlfeld, J.M. (2020). Smokers with COPD Show a Shift in Energy and Nitrogen Metabolism at Rest and During Exercise *Int J Chron Obstruct Pulmon Dis* 15,1-13. DOI: 10.2147/COPD.S217474

Liu, B., Lindner, P., Jirmo, A.C., Maus, U., Illig, T., DeLuca, D.S. (2020). A comparison of curated gene sets versus transcriptomics-derived gene signatures for detecting pathway activation in immune cells. *BMC Bioinformatics* 21,28. DOI: 10.1186/s12859-020-3366-4

Letter

Panning, M., Wiener, J., Rothe, K., Schneider, J., Pletz, M.W., Rohde, G., Rupp, J., Witznath, M., Spinner, C.D., Members of the CAPNETZ study group. (2020). No SARS-CoV-2 detection in the German CAPNETZ cohort of community acquired pneumonia before COVID-19 peak in March 2020 *Infection* 48,971-974. DOI: 10.1007/s15010-020-01471-y

Hannover Biomedical Research School (HBRS)

Originalpublikationen

Carriche, G.M., Almeida, L., Stüve, P., Velasquez, L., Dhillon-LaBrooy, A., Roy, U., Lindenberg, M., Strowig, T., Plaza-Sirvent, C., Schmitz, I., Lochner, M., Simon, A.K., Sparwasser, T. (2021). Regulating T-cell differentiation through the polyamine spermidine. *J Allergy Clin Immunol* 147,335-348.e11. DOI: 10.1016/j.jaci.2020.04.037

Fabits, M., Goncalves Magalhães, V., Chan, B., Girault, V., Elbasani, E., Rossetti, E., Saeland, E., Messerle, M., Pichlmair, A., Lisnic, V.J., Brinkmann, M.M. (2020). The Cytomegalovirus Tegument Protein UL35 Antagonizes Pattern Recognition Receptor-Mediated Type I IFN Transcription *Microorganisms* 8,DOI: 10.3390/microorganisms8060790

Kutle, I., Szymanska-de Wijs, K.M., Bogdanow, B., Cuvalo, B., Steinbrück, L., Jonjic, S., Wagner, K., Niedenthal, R., Selbach, M., Wiebusch, L., Dezeljin, M., Messerle, M. (2020). Murine Cytomegalovirus M25 Proteins Sequester the Tumor Suppressor Protein p53 in Nuclear Accumulations. *J Virol* 94,DOI: 10.1128/JVI.00574-20

Theobald, S.J., Kreer, C., Khailaie, S., Bonifacius, A., Eiz-Vesper, B., Figueiredo, C., Mach, M., Backovic, M., Ballmaier, M., Koenig, J., Olbrich, H., Schneider, A., Volk, V., Danisch, S., Gieselmann, L., Ercanoglu, M.S., Messerle, M., Kaisenberg, C.V., Witte, T., Klawonn, F., Meyer-Hermann, M., Klein, F., Stripecke, R. (2020). Repertoire characterization and validation of gB-specific human IgGs directly cloned from humanized mice vaccinated with dendritic cells and protected against HCMV *PLoS Pathog* 16,e1008560. DOI: 10.1371/journal.ppat.1008560

Promotionen

- Alberts, A. (2020). Recognition of crystalline structures by the innate immune system. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020
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Jeinsen, N. (2020). Biokompatibilität von intensiviert dezellularisierten equinen Arteriae Carotides in einem subkutanen Implantationsmodell in Ratten und in einem humanen in-vitro-Modell. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

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Sake, H.J. (2019). Generation and characterization of SLA class I deficient pigs for xenotransplantation. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Sake, S.M. (2020). Development of a lentiviral pseudotype system for murine pneumonia virus and characterization of human respiratory syncytial virus targeting antivirals. Dissertation, Medizinische Hochschule Hannover, 2020

Schneider, D. (2020). Deciphering the oncogenic network of PRC2 loss guided leukemogenesis Dissertation, Medizinische Hochschule Hannover, 2020

- Sharma, S. (2020). Role of toll-like receptor 11 (TLR11) in *Salmonella* infection. Dissertation, Medizinische Hochschule Hannover, 2020
- Simper, G.S. (2020). Understanding the molecular differences of carbamazepine-mediated adverse drug reactions for HLA-A*31:01- and HLA-B*15:02-positive patients Kumulative Dissertation, Medizinische Hochschule Hannover, 2020
- Tan, L. (2020). Tissue adaptation of IL-17-producing γ T cells. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020
- Theobald, S.J. (2019). Modeling human cytomegalovirus infections in humanized mice for preclinical development of novel cellular and antibody-based therapies. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020
- Tom-Aba, D. (2020). User Perception, Acceptability and Usefulness of Surveillance Outbreak Response Management and Analysis System (SORMAS) among Health Workers in Nigeria, West Africa, 2018-19. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020
- Torres, D.A.N. (2019). Kaposi sarcoma-associated Herpesvirus latency associated nuclear antigen (LANA) protein complexes isolation, separation and confirmation of new possible protein interactors Dissertation, Medizinische Hochschule Hannover, 2020
- Türkkan, S. (2019). Novel smart drug delivery systems for antitumor therapy that combines chemotherapy with hyperthermia. Dissertation, Medizinische Hochschule Hannover, 2020
- van Luttikhuisen, J.L. (2020). Genetics of breast cancer the identification of germline and somatic variants driving tumorigenesis. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020
- Weber, N. (2020). Kardiomyozyten aus humanen induzierten pluripotenten Stammzellen als ein In-vitro-Modell der hypertrophen Kardiomyopathie. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020
- Yang, T. (2020). Therapeutic applications of transcription factor mediated (re-)programming in chronic liver diseases. Dissertation, Medizinische Hochschule Hannover, 2020

Hearing 4All

Originalpublikationen

- Alvarado, J.C., Fuentes-Santamaria, V., Juiz, J.M. (2020). Antioxidants and Vasodilators for the Treatment of Noise-Induced Hearing Loss: Are They Really Effective? *Front Cell Neurosci* 14,226. DOI: 10.3389/fncel.2020.00226
- Alvarado, J.C., Fuentes-Santamaria, V., Melgar-Rojas, P., Gabaldon-Ull, M.C., Cabanes-Sanchis, J.J., Juiz, J.M. (2020). Oral Antioxidant Vitamins and Magnesium Limit Noise-Induced Hearing Loss by Promoting Sensory Hair Cell Survival: Role of Antioxidant Enzymes and Apoptosis Genes *Antioxidants (Basel)* 9,1177. DOI: 10.3390/antiox9121177
- Buchman, C.A., Gifford, R.H., Haynes, D.S., Lenarz, T., O'Donoghue, G., Adunka, O., Biever, A., Briggs, R.J., Carlson, M.L., Dai, P., Driscoll, C.L., Francis, H.W., Gantz, B.J., Gurgel, R.K., Hansen, M.R., Holcomb, M., Karltorp, E., Kirtane, M., Larky, J., Mylanus, E.A.M., Roland, J.T., Jr, Saeed, S.R., Skarzynski, H., Skarzynski, P.H., Syms, M., Teagle, H., Van de Heyning, P.H., Vincent, C., Wu, H., Yamasoba, T., Zwolan, T. (2021). Unilateral Cochlear Implants for Severe, Profound, or Moderate Sloping to Profound Bilateral Sensorineural Hearing Loss: A Systematic Review and Consensus Statements *JAMA Otolaryngol Head Neck Surg* 146,942-953. DOI: 10.1001/jama-oto.2020.0998
- El-Saied, S., Schmitt, H., Durisin, M., Joshua, B.Z., Abu Tailakh, M., Prenzler, N., Lenarz, T., Kaplan, D.M., Lewis, E.C., Warnecke, A. (2020). Endogenous alpha1-antitrypsin levels in the perilymphatic fluid correlates with severity of hearing loss *Clin Otolaryngol* 45,495-499. DOI: 10.1111/coa.13541
- Heilen, S., Lang, C.P., Warnecke, A., Lenarz, T., Durisin, M. (2020). Exploratory tympanotomy in sudden sensorineural hearing loss for the identification of a perilymphatic fistula - retrospective analysis and review of the literature *J Laryngol Otol* 134,501-508. DOI: 10.1017/S0022215120000948
- Kipping, D., Krüger, B., Nogueira, W. (2020). The role of electroneural versus electrophonic stimulation on psychoacoustic electric-acoustic masking in cochlear implant users with residual hearing *Hear Res* 395,108036. DOI: 10.1016/j.heares.2020.108036

Konrad, S., Framke, T., Kludt, E., Büchner, A., Lenarz, T., Paasche, G. (2020). Do Impedance Changes Correlate With a Delayed Hearing Loss After Hybrid L24 Implantation? *Ear Hear* *42*,163-172. DOI: 10.1097/AUD.0000000000000914

Kral, A., Sato, M. (2020). Nature and nurture in hearing: Critical periods for therapy of deafness. *Acoust Sci &Tech* *47*,54-58. DOI: 10.1250/ast.41.54

Krüger, B., Büchner, A., Lenarz, T., Nogueira, W. (2020). Amplitude growth of intracochlear electrocochleography in cochlear implant users with residual hearing *J Acoust Soc Am* *147*,1147. DOI: 10.1121/10.0000744

Krüger, B., Büchner, A., Lenarz, T., Nogueira, W. (2020). Electric-acoustic interaction measurements in cochlear-implant users with ipsilateral residual hearing using electrocochleography *J Acoust Soc Am* *147*,350. DOI: 10.1121/10.0000577

Lenarz, T., Buechner, A., Lesinski-Schiedat, A., Timm, M., Salcher, R. (2020). Hearing Preservation With a New Atraumatic Lateral Wall Electrode *Otol Neurotol* *41*,e993-e1003. DOI: 10.1097/MAO.0000000000002714

Matin, F., Haumann, S., Rossberg, W., Mitovska, D., Lenarz, T., Lesinski-Schiedat, A. (2021). Monitoring of the auditory pathway maturation after early intervention during the first year of life in infants with sensorineural hearing loss *Eur Arch Otorhinolaryngol* *278*,4187-4197. DOI: 10.1007/s00405-020-06498-3

Rossberg, W., Goetz, F., Timm, M.E., Lenarz, T., Helmstaedter, V. (2020). Intratympanic application of triamcinolone in sudden hearing loss-radiologic anatomy in cone beam CT and its' correlation to clinical outcome *Eur Arch Otorhinolaryngol* *277*,1931-1937. DOI: 10.1007/s00405-020-05920-0

Sato, M., Kral, A. (2020). Dynamic range of cochlear implant stimulation is larger in residually hearing cochlea. *Acoust Sci &Tech* *47*,380-381. DOI: 10.1250/ast.41.380

Scheper, V., Schmidtheisler, M., Lasch, F., von der Leyen, H., Koch, A., Schwieger, J., Büchner, A., Lesinski-Schiedat, A., Lenarz, T. (2020). Randomized placebo-controlled clinical trial investigating the effect of antioxidants and a vasodilator on overall safety and residual hearing preservation in cochlear implant patients *Trials* *21*,643. DOI: 10.1186/s13063-020-04522-9

Seeliger, T., Bönig, L., Witte, T., Thiele, T., Lesinski-Schiedat, A., Stangel, M., Lenarz, T., Prenzler, N.C., Skripuletz, T. (2020). Hearing dysfunction in patients with Neuro-Sjogren: a cross-sectional study *Ann Transl Med* *8*,1069-20-1856. DOI: 10.21037/atm-20-1856

Wardenga, N., Diedrich, V., Waldmann, B., Lenarz, T., Maier, H. (2020). Hearing Aid Treatment in Patients with Mixed Hearing Loss. Part I: Expected Benefit and Limitations after Stapes Surgery *Audiol Neurootol* *25*,125-132. DOI: 10.1159/000502994

Wardenga, N., Snik, A.F.M., Kludt, E., Waldmann, B., Lenarz, T., Maier, H. (2020). Hearing Aid Treatment for Patients with Mixed Hearing Loss. Part II: Speech Recognition in Comparison to Direct Acoustic Cochlear Stimulation *Audiol Neurootol* *25*,133-142. DOI: 10.1159/000504285

Warnecke, A., Harre, J., Staecker, H., Prenzler, N., Strunk, D., Couillard-Despres, S., Romanelli, P., Hollerweger, J., Lassacher, T., Auer, D., Pachler, K., Wietzorrek, G., Köhl, U., Lenarz, T., Schallmoser, K., Laner-Plamberger, S., Falk, C.S., Rohde, E., Gimona, M. (2020). Extracellular vesicles from human multipotent stromal cells protect against hearing loss after noise trauma in vivo *Clin Transl Med* *10*,e262. DOI: 10.1002/ctm2.262

Übersichtsarbeiten

Büning, H., Schambach, A., Morgan, M., Rossi, A., Wichova, H., Staecker, H., Warnecke, A., Lenarz, T. (2020). Challenges and advances in translating gene therapy for hearing disorders. *Expert Rev Precis Med Drug Dev* *5*,23-34. DOI: 10.1080/23808993.2020.1707077

Morgan, M., Schott, J.W., Rossi, A., Landgraf, C., Warnecke, A., Staecker, H., Lesinski-Schiedat, A., Schlegelberger, B., Büning, H., Auber, B., Schambach, A. (2020). Gene therapy as a possible option to treat hereditary hearing loss. *Medizinische Genetik* *32*,149-159. DOI: 10.1515/medgen-2020-2021

Case reports

Degen, C., Lenarz, T., Willenborg, K. (2020). Acute Profound Sensorineural Hearing Loss After COVID-19 Pneumonia *Mayo Clin Proc* *95*,1801-1803. DOI: 10.1016/j.mayocp.2020.05.034

Abstracts

Landgraf, C., von Hardenberg, S., Lesinski-Schiedat, A., Büchner, A., Schlegelberger, B., Auber, B. (2020). Causes of congenital hearing loss and cochlear implant outcome. *Eur J Hum Genet* *28*,188-189.

Internationales PhD Programm: Auditory Sciences

Promotionen

Marcoleta, J.P. (2020). A novel front-end architecture for high density systems in electrophysiology. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Internationales PhD Programm: DEWIN - Dynamik der Erreger-Wirt-Interaktionen

Promotionen

Kohn, M. (2020). The immune regulatory role of complement in experimental chlamydia psittaci mouse lung infection Dissertation, Medizinische Hochschule Hannover, 2020

Ramos do Nascimento, Ana Rita Henriques (2020). Host factors modulating HSV-1 infection E3 ubiquitin ligase ITCH limits susceptibility to HSV-1 by modulating surface availability of its receptor nectin-1 : importin α 1 is required for HSV-1 capsid assembly and nuclear egress Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Sake, S.M. (2020). Development of a lentiviral pseudotype system for murine pneumonia virus and characterization of human respiratory syncytial virus targeting antivirals. Dissertation, Medizinische Hochschule Hannover, 2020

Sharma, S. (2020). Role of toll-like receptor 11 (TLR11) in *Salmonella* infection. Dissertation, Medizinische Hochschule Hannover, 2020

Tan, L. (2020). Tissue adaptation of IL-17-producing γ T cells. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Torres, D.A.N. (2019). Kaposi sarcoma-associated Herpesvirus latency associated nuclear antigen (LANA) protein complexes isolation, separation and confirmation of new possible protein interactors Dissertation, Medizinische Hochschule Hannover, 2020

Internationales PhD Programm: Epidemiology

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Chaw, P.S. (2020). Antibiotic use in The Gambia Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Tom-Aba, D. (2020). User Perception, Acceptability and Usefulness of Surveillance Outbreak Response Management and Analysis System (SORMAS) among Health Workers in Nigeria, West Africa, 2018-19. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Internationales PhD Programm: Infection Biology

Promotionen

de Barros Martins, J.L. (2020). Investigating the role of miR-181ab-1 in development and function of intraepithelial lymphocytes. Dissertation, Medizinische Hochschule Hannover, 2020

Galeev, A. (2020). Host glycoconjugates in Salmonella infection: a bittersweet symphony. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Otoo, D.A. (2019). Characterization of functional domains in the large tegument protein pUL36 of herpes simplex virus type 1 Dissertation, Medizinische Hochschule Hannover, 2020

Tan, L. (2020). Tissue adaptation of IL-17-producing γ T cells. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Internationales MD/PhD Programm: Molecular Medicine

Promotionen

Alberts, A. (2020). Recognition of crystalline structures by the innate immune system. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Bellmàs Sanz, R. (2020). Lymphocyte dynamics and role of tissue-resident T and NK cells in lung transplantation and disease. Dissertation, Medizinische Hochschule Hannover, 2020

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Mangare, C. (2021). Identification of Suitable T-Cell Subsets for Personalized Antiviral T-Cell Immunotherapy. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Mintzas, K.M. (2020). Genetic dependencies in acute myeloid leukemia revealed by a functional in vivo screening. Dissertation, Medizinische Hochschule Hannover, 2020

Mohanty, S. (2020). Pathophysiology and treatment of NUP98-NSD1 acute myeloid leukemia. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Reindl, T.A. (2019). Allosteric regulation of actomyosin-based contractility in non-muscle cells. Dissertation, Medizinische Hochschule Hannover, 2020

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Simper, G.S. (2020). Understanding the molecular differences of carbamazepine-mediated adverse drug reactions for HLA-A*31:01- and HLA-B*15:02-positive patients Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

van Luttkhuizen, J.L. (2020). Genetics of breast cancer the identification of germline and somatic variants driving tumorigenesis. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Weber, N. (2020). Kardiomyozyten aus humanen induzierten pluripotenten Stammzellen als ein In-vitro-Modell der hypertrophen Kardiomyopathie. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Weiss, A.C., Rivera-Reyes, R., Englert, C., Kispert, A. (2020). Expansion of the renal capsular stroma, ureteric bud branching defects and cryptorchidism in mice with Wilms tumor 1 gene deletion in the stromal compartment of the developing kidney. *J Pathol* 252,290-303. DOI: 10.1002/path.5518

Internationales PhD Programm: Regenerative Sciences

Originalpublikationen

Theobald, S.J., Kreer, C., Khailaie, S., Bonifacius, A., Eiz-Vesper, B., Figueiredo, C., Mach, M., Backovic, M., Ballmaier, M., Koenig, J., Olbrich, H., Schneider, A., Volk, V., Danisch, S., Gieselmann, L., Ercanoglu, M.S., Messerle, M., Kaisenberg, C.V., Witte, T., Klawonn, F., Meyer-Hermann, M., Klein, F., Stripecke, R. (2020). Repertoire characterization and validation of gB-specific human IgGs directly cloned from humanized mice vaccinated with dendritic cells and protected against HCMV *PLoS Pathog* 16:e1008560. DOI: 10.1371/journal.ppat.1008560

Promotionen

Banerjee, S. (2019). Development of *in-situ* generated polysaccharide-based hydrogels for tissue engineering applications. Dissertation, Medizinische Hochschule, Hannover

Basílio Queirós, D.T. (2019). Reconstitution of innate immunity in the context of complications after hematopoietic stem cell transplantation. Dissertation, Medizinische Hochschule Hannover, 2020

Borchert, T. (2019). Molecular imaging of inflammation in the heart-brain axis following myocardial infarction and its modulation by therapeutic interventions Dissertation, Medizinische Hochschule Hannover, 2020

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Rafiei Hashtchin, A. (2020). Scalable generation of iPSC-derived myeloid cells and their therapeutic potential against Staphylococcus aureus. Dissertation, Medizinische Hochschule Hannover, 2020

Sake, H.J. (2019). Generation and characterization of SLA class I deficient pigs for xenotransplantation. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Theobald, S.J. (2019). Modeling human cytomegalovirus infections in humanized mice for preclinical development of novel cellular and antibody-based therapies. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Türkkan, S. (2019). Novel smart drug delivery systems for antitumor therapy that combines chemotherapy with hyperthermia. Dissertation, Medizinische Hochschule Hannover, 2020

Yang, T. (2020). Therapeutic applications of transcription factor mediated (re-)programming in chronic liver diseases. Dissertation, Medizinische Hochschule Hannover, 2020

IRTG 1273: Strategien menschlicher Krankheitserreger zur Etablierung akuter und chronischer Infektionen

Originalpublikationen

Fabits, M., Goncalves Magalhães, V., Chan, B., Girault, V., Elbasani, E., Rossetti, E., Saeland, E., Messerle, M., Pichlmair, A., Lisnic, V.J., Brinkmann, M.M. (2020). The Cytomegalovirus Tegument Protein UL35 Antagonizes Pattern Recognition Receptor-Mediated Type I IFN Transcription Microorganisms 8, DOI: 10.3390/microorganisms8060790

Übersichtsarbeiten

Alvarado, A., Behrens, W., Josenhans, C. (2020). Protein Activity Sensing in Bacteria in Regulating Metabolism and Motility. Front Microbiol 10,3055. DOI: 10.3389/fmicb.2019.03055

Klinische Forschergruppe 311: (Prä-)terminales Herz- und Lungenversagen: Mechanische Entlastung und Reparatur

Originalpublikationen

Akin, M., Garcheva, V., Sieweke, J.T., Flierl, U., Daum, H.C., Bauersachs, J., Schäfer, A. (2020). Early use of hemoadsorption in patients after out-of-hospital cardiac arrest - a matched pair analysis PLoS One 15, e0241709. DOI: 10.1371/journal.pone.0241709

Hess, A., Derlin, T., Koenig, T., Diekmann, J., Wittneben, A., Wang, Y., Wester, H.J., Ross, T.L., Wollert, K.C., Bauersachs, J., Bengel, F.M., Thackeray, J.T. (2020). Molecular imaging-guided repair after acute myocardial infarction by targeting the chemokine receptor CXCR4 Eur Heart J 41,3564-3575. DOI: 10.1093/eurheartj/ehaa598

Hirsch, V.G., Tongers, J., Bode, J., Berliner, D., Widder, J.D., Escher, F., Mutsenko, V., Chung, B., Rostami, F., Guba-Quint, A., Giannitsis, E., Schultheiss, H.P., Vogt, C., Bauersachs, J., Wollert, K.C., Kempf, T. (2020). Cardiac iron concentration in relation to systemic iron status and disease severity in non-ischaemic heart failure with reduced ejection fraction Eur J Heart Fail 22,2038-2046. DOI: 10.1002/ehfj.1781

Kaemmerer, H., Gorenflo, M., Huscher, D., Pittrow, D., Apitz, C., Baumgartner, H., Berger, F., Bruch, L., Brunnemer, E., Budts, W., Clausen, M., Coghlan, G., Dahnert, I., D'Alto, M., Delcroix, M., Distler, O., Dittrich, S., Dumitrescu, D., Ewert, R., Faehling, M., Germund, I., Ghofrani, H.A., Grohe, C., Grossekreymborg, K., Halank, M., Hansmann, G., Harzheim, D., Nemes, A., Havasi, K., Held, M., Hoepfer, M.M.,

Hofbeck, M., Hohenfrost-Schmidt, W., Jureviciene, E., Gumbiene, L., Kabitz, H.J., Klose, H., Kohler, T., Konstantinides, S., Koestenberger, M., Kozlik-Feldmann, R., Kramer, H.H., Kropf-Sanchen, C., Lammers, A., Lange, T., Meyn, P., Miera, O., Milger-Kneidinger, K., Neidenbach, R., Neurohr, C., Opitz, C., Perings, C., Remppis, B.A., Riemekasten, G., Scelsi, L., Scholtz, W., Simkova, I., Skowasch, D., Skride, A., Stahler, G., Stiller, B., Tsangaris, I., Vizza, C.D., Vonk Noordegraaf, A., Wilkens, H., Wirtz, H., Diller, G.P., Grunig, E., Rosenkranz, S. (2020). Pulmonary Hypertension in Adults with Congenital Heart Disease: Real-World Data from the International COMPERA-CHD Registry. *J Clin Med* 9, E1456 [pii]. DOI: 10.3390/jcm9051456

Koestenberger, M., Avian, A., Chouvarine, P., Gamillscheg, A., Cvirn, G., Schweintzger, S., Kurath-Koller, S., Cantinotti, M., Hohmann, D., Hansmann, G. (2020). Right ventricular end-systolic remodeling index in the assessment of pediatric pulmonary arterial hypertension. The European Pediatric Pulmonary Vascular Disease Network (EPPVDN). *Pediatr Res* 88, 285-292. DOI: 10.1038/s41390-020-0748-2

Köhler, D., Granja, T., Volz, J., Koeppen, M., Langer, H.F., Hansmann, G., Legchenko, E., Geisler, T., Bakchoul, T., Eggstein, C., Häberle, H.A., Nieswandt, B., Rosenberger, P. (2020). Red blood cell-derived semaphorin 7A promotes thrombo-inflammation in myocardial ischemia-reperfusion injury through platelet GPIb. *Nat Commun* 11, 1315. DOI: 10.1038/s41467-020-14958-x

Napp, L.C., Sanchez Martinez, C., Akin, M., Garcheva, V., Kühn, C., Bauersachs, J., Schäfer, A. (2020). Use of extracorporeal membrane oxygenation for eCPR in the emergency room in patients with refractory out-of-hospital cardiac arrest. *PLoS One* 15, e0239777. DOI: 10.1371/journal.pone.0239777

Pfeffer, T.J., Herrmann, J., Berliner, D., König, T., Winter, L., Ricke-Hoch, M., Ponimaskin, E., Schuchardt, S., Thum, T., Hilfiker-Kleiner, D., Bauersachs, J., Kahl, K.G. (2020). Assessment of major mental disorders in a German peripartum cardiomyopathy cohort. *ESC Heart Fail* 7, 4394-4398. DOI: 10.1002/ehf2.12967

Schweintzger, S., Koestenberger, M., Schlagenhaut, A., Grangl, G., Burmas, A., Kurath-Koller, S., Pocivalnik, M., Sallmon, H., Baumgartner, D., Hansmann, G., Gamillscheg, A. (2020). Safety and efficacy of the endothelin receptor antagonist macitentan in pediatric pulmonary hypertension. *Cardiovasc Diagn Ther* 10, 1675-1685. DOI: 10.21037/cdt.2020.04.01

Sieweke, J.T., Akin, M., Stetskamp, S., Riehle, C., Jonigk, D., Flierl, U., Pfeffer, T.J., Hirsch, V., Dutzmann, J., Hoepfer, M.M., Kühn, C., Bauersachs, J., Schäfer, A. (2020). Mechanical circulatory support in refractory cardiogenic shock due to influenza virus-related myocarditis. *Eur Respir J* 56, 2000925. DOI: 10.1183/13993003.00925-2020

Stojanovic, S.D., Fuchs, M., Kunz, M., Xiao, K., Just, A., Pich, A., Bauersachs, J., Fiedler, J., Sedding, D., Thum, T. (2020). Inflammatory Drivers of Cardiovascular Disease: Molecular Characterization of Senescent Coronary Vascular Smooth Muscle Cells. *Front Physiol* 11, 520. DOI: 10.3389/fphys.2020.00520

Tongers, J., Sieweke, J.T., Kühn, C., Napp, L.C., Flierl, U., Röntgen, P., Schmitto, J.D., Sedding, D.G., Haverich, A., Bauersachs, J., Schäfer, A. (2020). Early Escalation of Mechanical Circulatory Support Stabilizes and Potentially Rescues Patients in Refractory Cardiogenic Shock. *Circ Heart Fail* 13, e005853. DOI: 10.1161/CIRCHEARTFAILURE.118.005853

Übersichtsarbeiten

Andersen, A., van der Feen, D.E., Andersen, S., Schultz, J.G., Hansmann, G., Bogaard, H.J. (2020). Animal models of right heart failure. *Cardiovasc Diagn Ther* 10, 1561-1579. DOI: 10.21037/cdt-20-400

Bernardo, R.J., Haddad, F., Couture, E.J., Hansmann, G., de Jesus Perez, V.A., Denault, A.Y., de Man, F.S., Amsallem, M. (2020). Mechanics of right ventricular dysfunction in pulmonary arterial hypertension and heart failure with preserved ejection fraction. *Cardiovasc Diagn Ther* 10, 1580-1603. DOI: 10.21037/cdt-20-479

Hamrick, S.E.G., Sallmon, H., Rose, A.T., Porras, D., Shelton, E.L., Reese, J., Hansmann, G. (2020). Patent Ductus Arteriosus of the Preterm Infant. *Pediatrics* 146, DOI: 10.1542/peds.2020-1209

Hansmann, G., Bezzerides, V. (2020). Paediatric/congenital cardiology physician scientists-An endangered species. *Eur J Clin Invest* 50, e13367. DOI: 10.1111/eci.13367

Inampudi, C., Tedford, R.J., Hemnes, A.R., Hansmann, G., Bogaard, H.J., Koestenberger, M., Lang, I.M., Brittain, E.L. (2020). Treatment of right ventricular dysfunction and heart failure in pulmonary arterial hypertension. *Cardiovasc Diagn Ther* 10, 1659-1674. DOI: 10.21037/cdt-20-348

Klinke, A., Schubert, T., Müller, M., Legchenko, E., Zelt, J.G.E., Shimauchi, T., Napp, L.C., Rothman, A.M.K., Bonnet, S., Stewart, D.J., Hansmann, G., Rudolph, V. (2020). Emerging therapies for right ventricular dysfunction and failure. *Cardiovasc Diagn Ther* 10, 1735-1767. DOI: 10.21037/cdt-20-592

Koestenberger, M., Bogaard, H.J., Hansmann, G. (2020). Getting to the bottom of right heart failure *Cardiovasc Diagn Ther* 10,1517-1521. DOI: 10.21037/cdt-20-565

Mariani, S., Richter, J., Pappalardo, F., Belohlavek, J., Lorusso, R., Schmitto, J.D., Bauersachs, J., Napp, L.C. (2020). Mechanical circulatory support for Takotsubo syndrome: a systematic review and meta-analysis *Int J Cardiol* 316,31-39. DOI: 10.1016/j.ijcard.2020.05.033

Santens, B., Van De Bruaene, A., De Meester, P., D'Alto, M., Reddy, S., Bernstein, D., Koestenberger, M., Hansmann, G., Budts, W. (2020). Diagnosis and treatment of right ventricular dysfunction in congenital heart disease *Cardiovasc Diagn Ther* 10,1625-1645. DOI: 10.21037/cdt-20-370

Wu, X., Rebol, M.R., Korf-Klingebiel, M., Wollert, K.C. (2021). Angiogenesis After Acute Myocardial Infarction *Cardiovasc Res* 117,1257-1273. DOI: 10.1093/cvr/cvaa287

Letter

Olsson, K.M., Fuge, J., Brod, T., Kamp, J.C., Schmitto, J., Kempf, T., Bauersachs, J., Hoepfer, M.M. (2020). Oral iron supplementation with ferric maltol in patients with pulmonary hypertension *Eur Respir J* 56, DOI: 10.1183/13993003.00616-2020

Case reports

Giagnorio, R., Hansmann, G. (2020). Mineralocorticoid receptor blockade improves pulmonary hypertension and right ventricular function in bronchopulmonary dysplasia: a case report *Cardiovasc Diagn Ther* 10,1686-1690. DOI: 10.21037/cdt.2020.02.05

König, T., Hanke, J.S., Dogan, G., Kempf, T., Sieweke, J.T., Schäfer, A., Bauersachs, J., Schmitto, J.D., Napp, L.C. (2021). Advanced preconditioning: Impella 5.5 support for decompensated heart failure before left ventricular assist device surgery *Cardiovasc Revasc Med* 28,189-192. DOI: 10.1016/j.carrev.2020.08.022

Sallmon, H., Berger, F., Weber, S.C., Fischer, H.S., Hansmann, G., Opgen-Rhein, B. (2020). Interventional creation of an endogenous reverse Potts shunt in an infant with pulmonary hypertension and genetic surfactant disorder—a case report *Cardiovasc Diagn Ther* 10,1696-1700. DOI: 10.21037/cdt.2020.03.11

Editorials

Hansmann, G., Rich, S., Maron, B.A. (2020). Cardiac catheterization in pulmonary hypertension: doing it right, with a catheter on the left *Cardiovasc Diagn Ther* 10,1718-1724. DOI: 10.21037/cdt-20-483

NIFE

Originalpublikationen

Gniesmer, S., Brehm, R., Hoffmann, A., de Cassan, D., Menzel, H., Hoheisel, A.L., Glasmacher, B., Willbold, E., Reifenrath, J., Ludwig, N., Zimmerer, R., Tavassol, F., Gellrich, N.C., Kampmann, A. (2020). Vascularization and biocompatibility of poly(epsilon-caprolactone) fiber mats for rotator cuff tear repair *PLoS One* 15,e0227563. DOI: 10.1371/journal.pone.0227563

Reifenrath, J., Wellmann, M., Kempfert, M., Angrisani, N., Welke, B., Gniesmer, S., Kampmann, A., Menzel, H., Willbold, E. (2020). TGF-beta3 Loaded Electrospun Polycaprolactone Fibre Scaffolds for Rotator Cuff Tear Repair: An in Vivo Study in Rats *Int J Mol Sci* 21,1046. DOI: 10.3390/ijms21031046

Schwieger, J., Hamm, A., Gepp, M.M., Schulz, A., Hoffmann, A., Lenarz, T., Scheper, V. (2020). Alginate-encapsulated brain-derived neurotrophic factor-overexpressing mesenchymal stem cells are a promising drug delivery system for protection of auditory neurons *J Tissue Eng* 11,2041731420911313. DOI: 10.1177/2041731420911313

Promotionen

Jeinsen, N. (2020). Biokompatibilität von intensiviert dezellularisierten equinen Arteriae Carotides in einem subkutanen Implantationsmodell in Ratten und in einem humanen in-vitro-Modell. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

REBIRTH

Originalpublikationen

Ackermann, M., Haake, K., Kempf, H., Kaschutnig, P., Weiss, A.C., Nguyen, A.H.H., Abeln, M., Merkert, S., Kühnel, M.P., Hartmann, D., Jonigk, D., Thum, T., Kispert, A., Milsom, M.D., Lachmann, N. (2021). A 3D iPSC-differentiation model identifies interleukin-3 as a regulator of early human hematopoietic specification *Haematologica* 106,1354-1367. DOI: 10.3324/haematol.2019.228064

Ahrendt, N., Steingrüber, T., Rajces, A., Lopez-Rodriguez, E., Eisenberg, T., Magnes, C., Madeo, F., Sedej, S., Schmiedl, A., Ochs, M., Mühlfeld, C., Schipke, J. (2020). Spermidine supplementation and voluntary activity differentially affect obesity-related structural changes in the mouse lung *Am J Physiol Lung Cell Mol Physiol* 319,L312-L324. DOI: 10.1152/ajplung.00423.2019

Brinkert, K., Hedtfeld, S., Burhop, A., Gastmeier, R., Gad, P., Wedekind, D., Kloth, C., Rothschild, J., Lachmann, N., Hetzel, M., Jirmo, A.C., Lopez-Rodriguez, E., Brandenberger, C., Hansen, G., Schambach, A., Ackermann, M., Tümmler, B., Munder, A. (2021). Rescue from *Pseudomonas aeruginosa* airway infection via stem cell transplantation *Mol Ther* 29,1324-1334. DOI: 10.1016/j.ymthe.2020.12.003

Craig-Mueller, N., Hammad, R., Elling, R., Alzubi, J., Timm, B., Kolter, J., Knelangen, N., Bednarski, C., Gläser, B., Ammann, S., Ivics, Z., Fischer, J., Speckmann, C., Schwarz, K., Lachmann, N., Ehl, S., Moritz, T., Henneke, P., Cathomen, T. (2020). Modeling MyD88 Deficiency In Vitro Provides New Insights in Its Function. *Front Immunol* 11,608802. DOI: 10.3389/fimmu.2020.608802

Drick, N., Dahlmann, J., Sahabian, A., Haase, A., Göhring, G., Lachmann, N., Ringshausen, F.C., Welte, T., Martin, U., Olmer, R. (2020). Generation of two human induced pluripotent stem cell lines (MHHi017-A, MHHi017-B) from a patient with primary ciliary dyskinesia carrying a homozygous mutation (c.7915C > T [p.Arg2639*]) in the DNAH5 gene. *Stem Cell Res* 46,101848. DOI: 10.1016/j.scr.2020.101848

Duerr, J., Leitz, D.H.W., Szczygiel, M., Dvornikov, D., Fraumann, S.G., Kreutz, C., Zadora, P.K., Seyhan Agircan, A., Konietzke, P., Engelmann, T.A., Hegermann, J., Mulugeta, S., Kawabe, H., Knudsen, L., Ochs, M., Rotin, D., Muley, T., Kreuter, M., Herth, F.J.F., Wielpütz, M.O., Beers, M.F., Klingmüller, U., Mall, M.A. (2020). Conditional deletion of Nedd4-2 in lung epithelial cells causes progressive pulmonary fibrosis in adult mice *Nat Commun* 11,2012. DOI: 10.1038/s41467-020-15743-6

Dutzmann, J., Haertle, M., Daniel, J.M., Kloss, F., Musmann, R.J., Kalies, K., Knöpp, K., Pilowski, C., Sirisko, M., Sieweke, J.T., Bauersachs, J., Sedding, D.G., Gegel, S. (2021). BET bromodomain containing epigenetic reader proteins regulate vascular smooth muscle cell proliferation and neointima formation *Cardiovasc Res* 117,850-862. DOI: 10.1093/cvr/cvaa121

Ha, T.C., Stahlhut, M., Rothe, M., Paul, G., Dziadek, V., Morgan, M., Brugman, M., Fehse, B., Kustikova, O., Schambach, A., Baum, C. (2021). Multiple Genes Surrounding Bcl-xL, a Common Retroviral Insertion Site, Can Influence Hematopoiesis Individually or in Concert. *Hum Gene Ther* 32,458-472. DOI: 10.1089/hum.2019.344

Haake, K., Neehus, A.L., Buchegger, T., Kühnel, M.P., Blank, P., Philipp, F., Oleaga-Quintas, C., Schulz, A., Grimley, M., Goethe, R., Jonigk, D., Kalinke, U., Boisson-Dupuis, S., Casanova, J.L., Bustamante, J., Lachmann, N. (2020). Patient iPSC-Derived Macrophages to Study Inborn Errors of the IFN-gamma Responsive Pathway Cells 9,DOI: 10.3390/cells9020483

Hahn, K., Pollmann, L., Nowak, J., Nguyen, A.H.H., Haake, K., Neehus, A.L., Waqas, S.F.H., Pessler, F., Baumann, U., Hetzel, M., Casanova, J.L., Schulz, A., Bustamante, J., Ackermann, M., Lachmann, N. (2020). Human Lentiviral Gene Therapy Restores the Cellular Phenotype of Autosomal Recessive Complete IFN-gammaR1 Deficiency *Mol Ther Methods Clin Dev* 17,785-795. DOI: 10.1016/j.omtm.2020.04.002

Haufe, S., Kahl, K.G., Kerling, A., Protte, G., Bayerle, P., Stenner, H.T., Rolff, S., Sundermeier, T., Eigendorf, J., Kück, M., Hanke, A.A., Keller-Varady, K., Ensslen, R., Nachbar, L., Lauenstein, D., Böthig, D., Terkamp, C., Stiesch, M., Hilfiker-Kleiner, D., Haverich, A., Tegtbur, U. (2020). Employers With Metabolic Syndrome and Increased Depression/Anxiety Severity Profit Most From Structured Exercise Intervention for Work Ability and Quality of Life *Front Psychiatry* 11,562. DOI: 10.3389/fpsy.2020.00562

Heimerl, M., Sieve, I., Ricke-Hoch, M., Erschow, S., Battmer, K., Scherr, M., Hilfiker-Kleiner, D. (2020). Neuraminidase-1 promotes heart failure after ischemia/reperfusion injury by affecting cardiomyocytes and invading monocytes/macrophages *Basic Res Cardiol* 115,62. DOI: 10.1007/s00395-020-00821-z

Hess, A., Derlin, T., Koenig, T., Diekmann, J., Wittneben, A., Wang, Y., Wester, H.J., Ross, T.L., Wollert, K.C., Bauersachs, J., Bengel, F.M., Thackeray, J.T. (2020). Molecular imaging-guided repair after acute myocardial infarction by targeting the chemokine receptor CXCR4 *Eur Heart J* 41,3564-3575. DOI: 10.1093/eurheartj/ehaa598

Hoffmann, D., Kuehle, J., Lenz, D., Philipp, F., Zychlinski, D., Lachmann, N., Moritz, T., Steinemann, D., Morgan, M., Skokowa, J., Klein, C., Schambach, A. (2020). Lentiviral gene therapy and vitamin B3 treatment enable granulocytic differentiation of G6PC3-deficient induced pluripotent stem cells *Gene Ther* 27,297-306. DOI: 10.1038/s41434-020-0127-y

Hunkler, H.J., Hoepfner, J., Huang, C.K., Chatterjee, S., Jara-Avaca, M., Gruh, I., Bolesani, E., Zweigerdt, R., Thum, T., Bär, C. (2020). The Long Non-coding RNA *Cyrano* Is Dispensable for Pluripotency of Murine and Human Pluripotent Stem Cells *Stem Cell Reports* 15,13-21. DOI: 10.1016/j.stemcr.2020.05.011

Klatt, D., Ha, T.C., Schinke, M., Selich, A., Lieske, A., Dahlke, J., Morgan, M., Maetzig, T., Schambach, A. (2020). Competitive sgRNA Screen Identifies p38 MAPK as a Druggable Target to Improve HSPC Engraftment Cells *Cell* 9,2194. DOI: 10.3390/cells9102194

Lipus, A., Janosz, E., Ackermann, M., Hetzel, M., Dahlke, J., Buchegger, T., Wunderlich, S., Martin, U., Cathomen, T., Schambach, A., Moritz, T., Lachmann, N. (2020). Targeted Integration of Inducible Caspase-9 in Human iPSCs Allows Efficient *in vitro* Clearance of iPSCs and iPSC-Macrophages *Int J Mol Sci* 21,DOI: 10.3390/ijms21072481

Memaran, N., Schwalba, M., Borchert-Mörlins, B., von der Born, J., Markefke, S., Bauer, E., von Wick, A., Epping, J., von Maltzahn, N., Heyn-Schmidt, I., Grams, L., Homeyer, D., Kerling, A., Stiesch, M., Tegtbur, U., Haverich, A., Melk, A. (2020). Gesundheit und Fitness von deutschen Schulkindern. *Monatsschr Kinderheilkd* 168,597-607. DOI: 10.1007/s00112-020-00882-3

Merkert, S., Jaboreck, M.C., Engels, L., Malik, M.N.H., Göhring, G., Pessler, F., Martin, U., Olmer, R. (2021). Generation of two human ISG15 knockout iPSC clones using CRISPR/Cas9 editing *Stem Cell Res* 50,102135. DOI: 10.1016/j.scr.2020.102135

Pfeffer, T.J., Herrmann, J., Berliner, D., König, T., Winter, L., Ricke-Hoch, M., Ponimaskin, E., Schuchardt, S., Thum, T., Hilfiker-Kleiner, D., Bauersachs, J., Kahl, K.G. (2020). Assessment of major mental disorders in a German peripartum cardiomyopathy cohort *ESC Heart Fail* 7,4394-4398. DOI: 10.1002/ehf2.12967

Schipke, J., Jütte, D., Brandenberger, C., Autilio, C., Perez-Gil, J., Bernhard, W., Ochs, M., Mühlfeld, C. (2021). Dietary Carbohydrates and Fat Induce Distinct Surfactant Alterations in Mice *Am J Respir Cell Mol Biol* 64,379-390. DOI: 10.1165/rcmb.2020-03350C

Stenner, H.T., Eigendorf, J., Kerling, A., Kueck, M., Hanke, A.A., Boyen, J., Nelius, A.K., Melk, A., Boethig, D., Bara, C., Hilfiker, A., Berliner, D., Bauersachs, J., Hilfiker-Kleiner, D., Eberhard, J., Stiesch, M., Schippert, C., Haverich, A., Tegtbur, U., Haufe, S. (2020). Effects of six month personalized endurance training on work ability in middle-aged sedentary women: a secondary analysis of a randomized controlled trial. *J Occup Med Toxicol* 15,8. DOI: 10.1186/s12995-020-00261-4

Stojanovic, S.D., Fuchs, M., Kunz, M., Xiao, K., Just, A., Pich, A., Bauersachs, J., Fiedler, J., Sedding, D., Thum, T. (2020). Inflammatory Drivers of Cardiovascular Disease: Molecular Characterization of Senescent Coronary Vascular Smooth Muscle Cells *Front Physiol* 11,520. DOI: 10.3389/fphys.2020.00520

Szepes, M., Melchert, A., Dahlmann, J., Hegermann, J., Werlein, C., Jonigk, D., Haverich, A., Martin, U., Olmer, R., Gruh, I. (2020). Dual Function of iPSC-Derived Pericyte-Like Cells in Vascularization and Fibrosis-Related Cardiac Tissue Remodeling *In Vitro*. *Int J Mol Sci* 21,8947. DOI: 10.3390/ijms21238947

Wahlisch, T., Vieyres, G., Bruns, S.A., Meumann, N., Büning, H., Hauser, H., Schmitz, I., Pietschmann, T., Wirth, D. (2020). Controlled Functional Zonation of Hepatocytes *In Vitro* by Engineering of Wnt Signaling *ACS Synth Biol* 9,1638-1649. DOI: 10.1021/acssynbio.9b00435

Weber, N., Kowalski, K., Holler, T., Radocaj, A., Fischer, M., Thiemann, S., de la Roche, J., Schwanke, K., Piep, B., Peschel, N., Krumm, U., Lingk, A., Wendland, M., Greten, S., Schmitto, J.D., Ismail, I., Warnecke, G., Zywiets, U., Chichkov, B., Meissner, J., Haverich, A., Martin, U., Brenner, B., Zweigerdt, R., Kraft, T. (2020). Advanced Single-Cell Mapping Reveals that in hESC Cardiomyocytes Contraction Kinetics and Action Potential Are Independent of Myosin Isoform. *Stem Cell Reports* 14,788-802. DOI: 10.1016/j.stemcr.2020.03.015

Wolfien, M., Klatt, D., Salybekov, A.A., Li, M., Komatsu-Horii, M., Gaebel, R., Philippou-Massier, J., Schrinner, E., Akimaru, H., Akimaru, E., David, R., Garbade, J., Gummert, J., Haverich, A., Hennig, H., Iwasaki, H., Kaminski, A., Kawamoto, A., Klopsch, C., Kowallick, J.T., Krebs, S., Nesteruk, J., Reichenspurner, H., Ritter, C., Stamm, C., Tani-Yokoyama, A., Blum, H., Wolkenhauer, O., Schambach, A., Asahara, T., Steinhoff, G. (2020). Hematopoietic stem-cell senescence and myocardial repair - Coronary artery disease genotype/phenotype analysis of post-MI myocardial regeneration response induced by CABG/CD133+ bone marrow hematopoietic stem cell treatment in RCT PERFECT Phase 3 *EBioMedicine* 57,DOI: 10.1016/j.ebiom.2020.102862

Übersichtsarbeiten

Ackermann, M., Dragon, A.C., Lachmann, N. (2020). The Immune-Modulatory Properties of iPSC-Derived Antigen-Presenting Cells *Transfus Med Hemother* 47,444-453. DOI: 10.1159/000512721

Hacker, U.T., Bentler, M., Kaniowska, D., Morgan, M., Buning, H. (2020). Towards Clinical Implementation of Adeno-Associated Virus (AAV) Vectors for Cancer Gene Therapy: Current Status and Future Perspectives. *Cancers (Basel)* 12,E1889 [pii]. DOI: 10.3390/cancers12071889

Knudsen, L., Brandenberger, C., Ochs, M. (2021). Stereology as the 3D tool to quantitate lung architecture. *Histochem Cell Biol* 155,163-181. DOI: 10.1007/s00418-020-01927-0

Stojanovic, S.D., Fiedler, J., Bauersachs, J., Thum, T., Sedding, D.G. (2020). Senescence-induced inflammation: an important player and key therapeutic target in atherosclerosis *Eur Heart J* 41,2983-2996. DOI: 10.1093/eurheartj/ehz919

Promotionen

Banerjee, S. (2019). Development of *in-situ* generated polysaccharide-based hydrogels for tissue engineering applications. Dissertation, Medizinische Hochschule, Hannover

Basílio Queirós, D.T. (2019). Reconstitution of innate immunity in the context of complications after hematopoietic stem cell transplantation. Dissertation, Medizinische Hochschule Hannover, 2020

Borchert, T. (2019). Molecular imaging of inflammation in the heart-brain axis following myocardial infarction and its modulation by therapeutic interventions Dissertation, Medizinische Hochschule Hannover, 2020

Chatterjee, S. (2019). Molecular analysis of telomerase in cardiac development and protection. Dissertation, Medizinische Hochschule Hannover, 2020

Haake, K. (2020). Stem cell derived hematopoiesis as a tool to evaluate hematopoietic cells in mendelian susceptibility to mycobacterial disease. Dissertation, Medizinische Hochschule Hannover, 2020

Heß, A. (2020). Serial multimodality molecular imaging of left ventricular remodelling and its relationship to myocardial inflammation in animal models of heart failure. Dissertation, Medizinische Hochschule Hannover, 2020

Hobuß, L. (2019). Investigation of the regulation and function of long noncoding RNA H19 in hypoxic cardiomyocytes in vitro and after myocardial infarction in vivo. Dissertation, Medizinische Hochschule Hannover, 2020

Ichanti, H. (2020). Development of artificial vascularized scaffolds for tissue engineering. Dissertation, Medizinische Hochschule Hannover, 2020

Janosz, E.T. (2020). Macrophage-based gene therapy approach for pulmonary manifestations of alpha 1 antitrypsin (AAT) deficiency. Dissertation, Medizinische Hochschule Hannover, 2020

Johannsmeier, S. (2020). Design, evaluation and applications of hydrogel waveguides for optogenetics. Dissertation, Medizinische Hochschule Hannover, 2020

Odak, I. (2019). Analysis and manipulation of donor T cells for the prevention of acute Graft versus Host disease Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Rafiei Hashtchin, A. (2020). Scalable generation of iPSC-derived myeloid cells and their therapeutic potential against *Staphylococcus aureus*. Dissertation, Medizinische Hochschule Hannover, 2020

Sake, H.J. (2019). Generation and characterization of SLA class I deficient pigs for xenotransplantation. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Theobald, S.J. (2019). Modeling human cytomegalovirus infections in humanized mice for preclinical development of novel cellular and antibody-based therapies. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Türkkan, S. (2019). Novel smart drug delivery systems for antitumor therapy that combines chemotherapy with hyperthermia. Dissertation, Medizinische Hochschule Hannover, 2020

Yang, T. (2020). Therapeutic applications of transcription factor mediated (re-)programming in chronic liver diseases. Dissertation, Medizinische Hochschule Hannover, 2020

SFB 738: Optimierung konventioneller und innovativer Transplantate

Originalpublikationen

Martens, R., Permanyer, M., Werth, K., Yu, K., Braun, A., Halle, O., Halle, S., Patzer, G.E., Bosnjak, B., Kiefer, F., Janssen, A., Friedrichsen, M., Poetzsch, J., Kohli, K., Lueder, Y., Gutierrez Jauregui, R., Eckert, N., Worbs, T., Galla, M., Förster, R. (2020). Efficient homing of T cells via afferent lymphatics requires mechanical arrest and integrin-supported chemokine guidance. *Nat Commun* *11*,1114. DOI: 10.1038/s41467-020-14921-w

Odak, I., Depkat-Jakob, A., Beck, M., Jarek, M., Yu, Y., Seidler, U., David, S., Ganser, A., Förster, R., Prinz, I., Koenecke, C. (2020). Donor-derived IL-17A and IL-17F deficiency triggers Th1 allo-responses and increases gut leakage during acute GVHD. *PLoS One* *15*,e0231222. DOI: 10.1371/journal.pone.0231222

SFB 900: Chronische Infektionen: Mikrobielle Persistenz und ihre Kontrolle

Originalpublikationen

Alberione, M.P., Moeller, R., Kirui, J., Ginkel, C., Doepke, M., Ströh, L.J., Machtens, J.P., Pietschmann, T., Gerold, G. (2020). Single-nucleotide variants in human CD81 influence hepatitis C virus infection of hepatoma cells *Med Microbiol Immunol* *209*,499-514. DOI: 10.1007/s00430-020-00675-1

Bankwitz, D., Bahai, A., Labuhn, M., Doepke, M., Ginkel, C., Khera, T., Todt, D., Ströh, L.J., Dold, L., Klein, F., Klawonn, F., Krey, T., Behrendt, P., Cornberg, M., McHardy, A.C., Pietschmann, T. (2021). Hepatitis C reference viruses highlight potent antibody responses and diverse viral functional interactions with neutralising antibodies *Gut* *70*,1734-1745. DOI: 10.1136/gutjnl-2020-321190

Behrens, G.M.N., Cossmann, A., Stankov, M.V., Schulte, B., Streeck, H., Förster, R., Bosnjak, B., Willenzon, S., Boeck, A.L., Thu Tran, A., Thiele, T., Graalman, T., Kayser, M.Z., Zychlinsky Scharff, A., Dopfer, C., Horke, A., Pink, I., Witte, T., Wetzke, M., Ernst, D., Jablonka, A., Happle, C. (2020). Strategic Anti-SARS-CoV-2 Serology Testing in a Low Prevalence Setting: The COVID-19 Contact (CoCo) Study in Healthcare Professionals *Infect Dis Ther* *9*,837-849. DOI: 10.1007/s40121-020-00334-1

Brown, R.J.P., Tegtmeyer, B., Sheldon, J., Khera, T., Anggakusuma, Todt, D., Vieyres, G., Weller, R., Joecks, S., Zhang, Y., Sake, S., Bankwitz, D., Welsch, K., Ginkel, C., Engelmann, M., Gerold, G., Steinmann, E., Yuan, Q., Ott, M., Vondran, F.W.R., Krey, T., Ströh, L.J., Miskey, C., Ivics, Z., Herder, V., Baumgärtner, W., Lauber, C., Seifert, M., Tarr, A.W., McClure, C.P., Randall, G., Baktash, Y., Ploss, A., Thi, V.L.D., Michailidis, E., Saeed, M., Verhoye, L., Meuleman, P., Goedecke, N., Wirth, D., Rice, C.M., Pietschmann, T. (2020). Liver-expressed Cd302 and Cr11 limit hepatitis C virus cross-species transmission to mice *Sci Adv* *6*,DOI: 10.1126/sciadv.abd3233

Carpentier, A., Sheldon, J., Vondran, F.W.R., Brown, R.J., Pietschmann, T. (2020). Efficient acute and chronic infection of stem cell-derived hepatocytes by hepatitis C virus. *Gut* *69*,1659-1666. DOI: 10.1136/gutjnl-2019-319354

Elsner, C., Ponnurangam, A., Kazmierski, J., Zillinger, T., Jansen, J., Todt, D., Döhner, K., Xu, S., Ducroux, A., Kriedemann, N., Malassa, A., Larsen, P.K., Hartmann, G., Barchet, W., Steinmann, E., Kalinke, U., Sodeik, B., Goffinet, C. (2020). Absence of cGAS-mediated type I IFN responses in HIV-1-infected T cells *Proc Natl Acad Sci U S A* *117*,19475-19486. DOI: 10.1073/pnas.2002481117

Estibariz, I., Ailloud, F., Woltemate, S., Bunk, B., Spröer, C., Overmann, J., Aebischer, T., Meyer, T.F., Josenhans, C., Suerbaum, S. (2020). In Vivo Genome and Methylome Adaptation of cag-Negative *Helicobacter pylori* during Experimental Human Infection. *mBio* *11*,e01803-20 [pii]. DOI: 10.1128/mBio.01803

Fabits, M., Goncalves Magalhães, V., Chan, B., Girault, V., Elbasani, E., Rossetti, E., Saeland, E., Messerle, M., Pichlmair, A., Lisnic, V.J., Brinkmann, M.M. (2020). The Cytomegalovirus Tegument Protein UL35 Antagonizes Pattern Recognition Receptor-Mediated Type I IFN Transcription *Microorganisms* *8*,DOI: 10.3390/microorganisms8060790

Fichtner, A.S., Bubke, A., Rampoldi, F., Wilharm, A., Tan, L., Steinbrück, L., Schultze-Florey, C., von Kaisenberg, C., Prinz, I., Herrmann, T., Ravens, S. (2020). TCR repertoire analysis reveals phosphoantigen-induced polyclonal proliferation of Vgamma9Vdelta2 T cells in neonates and adults. *J Leukoc Biol* *107*,1023-1032. DOI: 10.1002/JLB.1MA0120-427RR

Förster, R., Fleige, H., Sutter, G. (2020). Combating COVID-19: MVA Vector Vaccines Applied to the Respiratory Tract as Promising Approach Toward Protective Immunity in the Lung. *Front Immunol* *11*,1959. DOI: 10.3389/fimmu.2020.01959

- Gabaev, I., Williamson, J.C., Crozier, T.W.M., Schulz, T.F., Lehner, P.J. (2020). Quantitative Proteomics Analysis of Lytic KSHV Infection in Human Endothelial Cells Reveals Targets of Viral Immune Modulation *Cell Rep* *33*,108249. DOI: 10.1016/j.celrep.2020.108249
- Galeev, A., Suwandi, A., Bakker, H., Oktiviyari, A., Routier, F.H., Krone, L., Hensel, M., Grassl, G.A. (2020). Proteoglycan-Dependent Endo-Lysosomal Fusion Affects Intracellular Survival of Salmonella Typhimurium in Epithelial Cells. *Front Immunol* *11*,731. DOI: 10.3389/fimmu.2020.00731
- Hensel, N., Raker, V., Förthmann, B., Buch, A., Sodeik, B., Pich, A., Claus, P. (2020). The Proteome and Secretome of Cortical Brain Cells Infected With Herpes Simplex Virus. *Front Neurol* *11*,844. DOI: 10.3389/fneur.2020.00844
- Kirsch, P., Jakob, V., Elgaher, W.A.M., Walt, C., Oberhausen, K., Schulz, T.F., Empting, M. (2020). Discovery of Novel Latency-Associated Nuclear Antigen Inhibitors as Antiviral Agents Against Kaposi's Sarcoma-Associated Herpesvirus *ACS Chem Biol* *15*,388-395. DOI: 10.1021/acscchembio.9b00845
- Kirsch, P., Stein, S.C., Berwanger, A., Rinkes, J., Jakob, V., Schulz, T.F., Empting, M. (2020). Hit-to-lead optimization of a latency-associated nuclear antigen inhibitor against Kaposi's sarcoma-associated herpesvirus infections *Eur J Med Chem* *202*,112525. DOI: 10.1016/j.ejmech.2020.112525
- Kopfnagel, V., Dreyer, S., Baumert, K., Stark, M., Harder, J., Hofmann, K., Kleine, M., Buch, A., Sodeik, B., Werfel, T. (2020). RNase 7 promotes sensing of self-DNA by human keratinocytes and activates an antiviral immune response *J Invest Dermatol* *140*,1589-1598.e3. DOI: 10.1016/j.jid.2019.09.029
- Kropp, K.A., Lopez-Munoz, A.D., Ritter, B., Martin, R., Rastrojo, A., Srivaratharajan, S., Döhner, K., Dhingra, A., Czechowicz, J.S., Nagel, C.H., Sodeik, B., Alcami, A., Viejo-Borbolla, A. (2020). Herpes Simplex Virus 2 Counteracts Neurite Outgrowth Repulsion during Infection in a Nerve Growth Factor-Dependent Manner *J Virol* *94*,DOI: 10.1128/JVI.01370-20
- Kropp, K.A., Srivaratharajan, S., Ritter, B., Yu, P., Krooss, S., Polten, F., Pich, A., Alcami, A., Viejo-Borbolla, A. (2020). Identification of the Cleavage Domain within Glycoprotein G of Herpes Simplex Virus Type 2. *Viruses* *12*,E1428 [pii]. DOI: 10.3390/v12121428
- Kutle, I., Szymanska-de Wijs, K.M., Bogdanow, B., Cuvalo, B., Steinbrück, L., Jonjic, S., Wagner, K., Niedenthal, R., Selbach, M., Wiebusch, L., Dezeljin, M., Messerle, M. (2020). Murine Cytomegalovirus M25 Proteins Sequester the Tumor Suppressor Protein p53 in Nuclear Accumulations. *J Virol* *94*,DOI: 10.1128/JVI.00574-20
- Lang, J., Bohn, P., Bhat, H., Jastrow, H., Walkenfort, B., Cansiz, F., Fink, J., Bauer, M., Olszewski, D., Ramos-Nascimento, A., Duhan, V., Friedrich, S.K., Becker, K.A., Krawczyk, A., Edwards, M.J., Burchert, A., Huber, M., Friebus-Kardash, J., Göthert, J.R., Hardt, C., Probst, H.C., Schumacher, F., Köhrer, K., Kleuser, B., Babychuk, E.B., Sodeik, B., Seibel, J., Greber, U.F., Lang, P.A., Gulbins, E., Lang, K.S. (2020). Acid ceramidase of macrophages traps herpes simplex virus in multivesicular bodies and protects from severe disease. *Nat Commun* *11*,1338. DOI: 10.1038/s41467-020-15072-8
- Lotke, R., Schneeweiss, U., Pietrek, M., Günther, T., Grundhoff, A., Weidner-Glunde, M., Schulz, T.F. (2020). Brd/BET Proteins Influence the Genome-Wide Localization of the Kaposi's Sarcoma-Associated Herpesvirus and Murine Gammaherpesvirus Major Latency Proteins *Front Microbiol* *11*,591778. DOI: 10.3389/fmicb.2020.591778
- Martens, R., Permanyer, M., Werth, K., Yu, K., Braun, A., Halle, O., Halle, S., Patzer, G.E., Bosnjak, B., Kiefer, F., Janssen, A., Friedrichsen, M., Poetsch, J., Kohli, K., Lueder, Y., Gutierrez Jauregui, R., Eckert, N., Worbs, T., Galla, M., Förster, R. (2020). Efficient homing of T cells via afferent lymphatics requires mechanical arrest and integrin-supported chemokine guidance. *Nat Commun* *11*,1114. DOI: 10.1038/s41467-020-14921-w
- Mulas, F., Wang, X., Song, S., Nishanth, G., Yi, W., Brunn, A., Larsen, P.K., Isermann, B., Kalinke, U., Barragan, A., Naumann, M., Deckert, M., Schlüter, D. (2021). The deubiquitinase OTUB1 augments NF-kappaB-dependent immune responses in dendritic cells in infection and inflammation by stabilizing UBC13 *Cell Mol Immunol* *18*,1512-1527. DOI: 10.1038/s41423-020-0362-6
- Nikolova, G., Weiss, S., Bosnjak, B., Förster, R. (2021). Differential retention of lymph-borne CD8 memory T cell subsets in the subcapsular sinus of resting and inflamed lymph nodes. *Cell Mol Immunol* *18*,1317-1319. DOI: 10.1038/s41423-020-0451-6
- Odak, I., Barros-Martins, J., Bosnjak, B., Stahl, K., David, S., Wiesner, O., Busch, M., Hoepfer, M.M., Pink, I., Welte, T., Cornberg, M., Stoll, M., Goudeva, L., Blasczyk, R., Ganser, A., Prinz, I., Förster, R., Koenecke, C., Schultze-Florey, C.R. (2020). Reappearance of effector T cells is associated with recovery from COVID-19 *EBioMedicine* *57*,102885. DOI: 10.1016/j.ebiom.2020.102885
- Odak, I., Depkat-Jakob, A., Beck, M., Jarek, M., Yu, Y., Seidler, U., David, S., Ganser, A., Förster, R., Prinz, I., Koenecke, C. (2020). Donor-derived IL-17A and IL-17F deficiency triggers Th1 allo-responses and increases gut leakage during acute GVHD. *PLoS One* *15*,e0231222. DOI: 10.1371/journal.pone.0231222

Palor, M., Stejskal, L., Mandal, P., Lenman, A., Alberione, M.P., Kirui, J., Moeller, R., Ebner, S., Meissner, F., Gerold, G., Shepherd, A.J., Grove, J. (2020). Cholesterol sensing by CD81 is important for hepatitis C virus entry *J Biol Chem* *295*,16931-16948. DOI: 10.1074/jbc.RA120.014761

Ravens, S., Fichtner, A.S., Willers, M., Torkornoo, D., Pirr, S., Schöning, J., Deseke, M., Sandrock, I., Bubke, A., Wilharm, A., Doodoo, D., Egyir, B., Flanagan, K.L., Steinbrück, L., Dickinson, P., Ghazal, P., Adu, B., Viemann, D., Prinz, I. (2020). Microbial exposure drives polyclonal expansion of innate gammadelta T cells immediately after birth. *Proc Natl Acad Sci U S A* *117*,18649-18660. DOI: 10.1073/pnas.1922588117

Riba, A., Hassani, K., Walker, A., van Best, N., von Zeschwitz, D., Anslinger, T., Sillner, N., Rosenhain, S., Eibach, D., Maiga-Ascofare, O., Rolle-Kampczyk, U., Basic, M., Binz, A., Mocek, S., Sodeik, B., Bauerfeind, R., Mohs, A., Trautwein, C., Kiessling, F., May, J., Klingenspor, M., Gremse, F., Schmitt-Kopplin, P., Bleich, A., Torow, N., von Bergen, M., Hornef, M.W. (2020). Disturbed gut microbiota and bile homeostasis in *Giardia*-infected mice contributes to metabolic dysregulation and growth impairment *Sci Transl Med* *12*,DOI: 10.1126/scitranslmed.aay7019

Stolp, B., Thelen, F., Ficht, X., Altenburger, L.M., Ruef, N., Inavalli, V.V.G.K., Germann, P., Page, N., Moalli, F., Raimondi, A., Keyser, K.A., Seyed Jafari, S.M., Barone, F., Dettmer, M.S., Merkler, D., Iannacone, M., Sharpe, J., Schlapbach, C., Fackler, O.T., Nägerl, U.V., Stein, J.V. (2020). Salivary gland macrophages and tissue-resident CD8(+) T cells cooperate for homeostatic organ surveillance *Sci Immunol* *5*,DOI: 10.1126/sciimmunol.aaz4371

Suarez, N.M., Blyth, E., Li, K., Ganzenmueller, T., Camiolo, S., Avdic, S., Withers, B., Linnenweber-Held, S., Gwinner, W., Dhingra, A., Heim, A., Schulz, T.F., Gunson, R., Gottlieb, D., Slobedman, B., Davison, A.J. (2020). Whole-Genome Approach to Assessing Human Cytomegalovirus Dynamics in Transplant Patients Undergoing Antiviral Therapy *Front Cell Infect Microbiol* *10*,267. DOI: 10.3389/fcimb.2020.00267

Vieyres, G., Reichert, I., Carpentier, A., Vondran, F.W.R., Pietschmann, T. (2020). The ATGL lipase cooperates with ABHD5 to mobilize lipids for hepatitis C virus assembly. *PLoS Pathog* *16*,e1008554. DOI: 10.1371/journal.ppat.1008554

Zeeb, M., Kerrinnes, T., Cicin-Sain, L., Guzman, C.A., Puppe, W., Schulz, T.F., Peters, A., Berger, K., Castell, S., Karch, A. (2020). Seropositivity for pathogens associated with chronic infections is a risk factor for all-cause mortality in the elderly: findings from the Memory and Morbidity in Augsburg Elderly (MEMO) Study *Geroscience* *42*,1365-1376. DOI: 10.1007/s11357-020-00216-x

Vorträge

Becker, A.L., Ehrhardt, K., Matern, M., Grassl, G.A. (2020). SPI-1 translocated effectors prolong the intracellular survival of *Salmonella* Typhimurium in macrophages. DGHM Jahrestagung 2020, 08.-11.03.2020, Leipzig.

Promotionen

Tan, L. (2020). Tissue adaptation of IL-17-producing γ T cells. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Zentrale Forschungseinrichtung für Elektronenmikroskopie – 8840

Originalpublikationen

Beckers, A., Adis, C., Schuster-Gossler, K., Tveriakhina, L., Ott, T., Fuhl, F., Hegermann, J., Boldt, K., Serth, K., Rachev, E., Alten, L., Kremmer, E., Ueffing, M., Blum, M., Gossler, A. (2020). The FOXJ1 target Cfap206 is required for sperm motility, mucociliary clearance of the airways and brain development. *Development* *147*,dev188052. DOI: 10.1242/dev.188052

Duerr, J., Leitz, D.H.W., Szczygiel, M., Dvornikov, D., Fraumann, S.G., Kreutz, C., Zadora, P.K., Seyhan Agircan, A., Konietzke, P., Engelmann, T.A., Hegermann, J., Mulugeta, S., Kawabe, H., Knudsen, L., Ochs, M., Rotin, D., Muley, T., Kreuter, M., Herth, F.J.F., Wielpütz, M.O., Beers, M.F., Klingmüller, U., Mall, M.A. (2020). Conditional deletion of Nedd4-2 in lung epithelial cells causes progressive pulmonary fibrosis in adult mice *Nat Commun* *11*,2012. DOI: 10.1038/s41467-020-15743-6

Mühlfeld, C., Wrede, C., Molnar, V., Rajces, A., Brandenberger, C. (2021). The plate body: 3D ultrastructure of a facultative organelle of alveolar epithelial type II cells involved in SP-A trafficking *Histochem Cell Biol* *155*,261-269. DOI: 10.1007/s00418-020-01912-7

Niehaus, M., Straube, H., Künzler, P., Rugen, N., Hegermann, J., Giavalisco, P., Eubel, H., Witte, C.P., Herde, M. (2020). Rapid Affinity Purification of Tagged Plant Mitochondria (Mito-AP) for Metabolome and Proteome Analyses *Plant Physiol* *182*,1194-1210. DOI: 10.1104/pp.19.00736

Schneider, J.P., Wrede, C., Mühlfeld, C. (2020).The Three-Dimensional Ultrastructure of the Human Alveolar Epithelium Revealed by Focused Ion Beam Electron Microscopy *Int J Mol Sci* 27,DOI: 10.3390/ijms21031089

Schröder, M.L., Angrisani, N., Fadeeva, E., Hegermann, J., Reifenrath, J. (2020).Laser-structured spike surface shows great bone integrative properties despite infection in vivo *Mater Sci Eng C Mater Biol Appl* 109,110573. DOI: 10.1016/j.msec.2019.110573

Streich, K., Smoczek, M., Hegermann, J., Dittrich-Breiholz, O., Bornemann, M., Siebert, A., Bleich, A., Buettner, M. (2020).Dietary lipids accumulate in macrophages and stromal cells and change the microarchitecture of mesenteric lymph nodes *J Adv Res* 24,291-300. DOI: 10.1016/j.jare.2020.04.020

Szepes, M., Melchert, A., Dahlmann, J., Hegermann, J., Werlein, C., Jonigk, D., Haverich, A., Martin, U., Olmer, R., Gruh, I. (2020).Dual Function of iPSC-Derived Pericyte-Like Cells in Vascularization and Fibrosis-Related Cardiac Tissue Remodeling In Vitro. *Int J Mol Sci* 27,8947. DOI: 10.3390/ijms21238947

Wrede, C., Hegermann, J., Mühlfeld, C. (2020).Novel cell contact between podocyte microprojections and parietal epithelial cells analyzed by volume electron microscopy *Am J Physiol Renal Physiol* 378,F1246-F1251. DOI: 10.1152/ajprenal.00097.2020

Übersichtsarbeiten

Ochs, M., Hegermann, J., Lopez-Rodriguez, E., Timm, S., Nouailles, G., Matuszak, J., Simmons, S., Witzenrath, M., Kuebler, W.M. (2020).On Top of the Alveolar Epithelium: Surfactant and the Glycocalyx *Int J Mol Sci* 27,DOI: 10.3390/ijms21093075

Zentrale Forschungseinrichtung für Lasermikroskopie – 9413

Originalpublikationen

Abou-Ghali, M., Kusters, R., Körber, S., Manzi, J., Faix, J., Sykes, C., Plastino, J. (2020).Capping protein is dispensable for polarized actin network growth and actin-based motility *J Biol Chem* 295,15366-15375. DOI: 10.1074/jbc.RA120.015009

Alberts, A., Klingberg, A., Hoffmeister, L., Wessig, A.K., Brand, K., Pich, A., Neumann, K. (2020).Binding of Macrophage Receptor MARCO, LDL, and LDLR to Disease-Associated Crystalline Structures. *Front Immunol* 11,596103. DOI: 10.3389/fimmu.2020.596103

Alberts, A., Klingberg, A., Wessig, A.K., Combes, C., Witte, T., Brand, K., Pich, A., Neumann, K. (2020).C-reactive protein (CRP) recognizes uric acid crystals and recruits proteases C1 and MASP1. *Sci Rep* 10,6391. DOI: 10.1038/s41598-020-63318-8

Allardyce, H., Kuhn, D., Hernandez-Gerez, E., Hensel, N., Huang, Y.T., Faller, K., Gillingwater, T.H., Quondamatteo, F., Claus, P., Parson, S.H. (2020).Renal pathology in a mouse model of severe Spinal Muscular Atrophy is associated with downregulation of Glial Cell-Line Derived Neurotrophic Factor (GDNF) *Hum Mol Genet* 29,2365-2378. DOI: 10.1093/hmg/ddaa126

Amrute-Nayak, M., Pegoli, G., Holler, T., Lopez-Davila, A.J., Lanzaolo, C., Nayak, A. (2021).Chemotherapy triggers cachexia by deregulating synergetic function of histone-modifying enzymes *J Cachexia Sarcopenia Muscle* 12,159-176. DOI: 10.1002/jcsm.12645

Beckers, A., Adis, C., Schuster-Gossler, K., Tveriakhina, L., Ott, T., Fuhl, F., Hegermann, J., Boldt, K., Serth, K., Rachev, E., Alten, L., Kremmer, E., Ueffing, M., Blum, M., Gossler, A. (2020).The FOXJ1 target Cfap206 is required for sperm motility, mucociliary clearance of the airways and brain development. *Development* 147,dev188052. DOI: 10.1242/dev.188052

Bora, G., Hensel, N., Rademacher, S., Koyunoglu, D., Sunguroglu, M., Aksu-Menges, E., Balci-Hayta, B., Claus, P., Erdem-Yurter, H. (2021).Microtubule associated protein 1B dysregulates microtubule dynamics and neuronal mitochondrial transport in Spinal Muscular Atrophy *Hum Mol Genet* 29,3935-3944. DOI: 10.1093/hmg/ddaa275

Caliskan, C., Seeliger, B., Jäger, B., Fuge, J., Welte, T., Terwolbeck, O., Freise, J., van Moorsel, C.H.M., Zhang, Y., Prasse, A. (2020).Genetic Variation in CCL18 Gene Influences CCL18 Expression and Correlates with Survival in Idiopathic Pulmonary Fibrosis-Part B. *J Clin Med* 9,E1993. DOI: 10.3390/jcm9061993

Chaturvedi, A., Gupta, C., Gabdoulline, R., Borchert, N.M., Goparaju, R., Kaulfuss, S., Görlich, K., Schottmann, R., Othman, B., Welzenbach, J., Panknin, O., Wagner, M., Geffers, R., Ganser, A., Thol, F., Jeffers, M., Haegerbarth, A., Heuser, M. (2021).Synergistic activity of IDH1 inhibitor BAY1436032 with azacitidine in IDH1 mutant acute myeloid leukemia *Haematologica* 106,566-573. DOI: 10.3324/haematol.2019.236992

- Damiano-Guercio, J., Kurzawa, L., Mueller, J., Dimchev, G., Schaks, M., Nemethova, M., Pokrant, T., Brühmann, S., Linkner, J., Blanchoin, L., Sixt, M., Rottner, K., Faix, J. (2020). Loss of Ena/VASP interferes with lamellipodium architecture, motility and integrin-dependent adhesion *Elife* *9*,e55351. DOI: 10.7554/eLife.55351
- Desch, A., Freifrau von Maltzahn, N., Stumpp, N., Dalton, M., Yang, I., Stiesch, M. (2020). Biofilm formation on zirconia and titanium over time-An in vivo model study *Clin Oral Implants Res* *31*,865-880. DOI: 10.1111/clr.13632
- Dimchev, G., Amiri, B., Humphries, A.C., Schaks, M., Dimchev, V., Stradal, T.E.B., Faix, J., Krause, M., Way, M., Falcke, M., Rottner, K. (2020). Lamellipodin tunes cell migration by stabilizing protrusions and promoting adhesion formation *J Cell Sci* *133*,jcs239020. DOI: 10.1242/jcs.239020
- Ecke, M., Prassler, J., Tanribil, P., Müller-Taubenberger, A., Körber, S., Faix, J., Gerisch, G. (2020). Formins specify membrane patterns generated by propagating actin waves *Mol Biol Cell* *31*,373-385. DOI: 10.1091/mbc.E19-08-0460
- Gamrekelashvili, J., Kapanadze, T., Sablotny, S., Ratiu, C., Dastagir, K., Lochner, M., Karbach, S., Wenzel, P., Sitnow, A., Fleig, S., Sparwasser, T., Kalinke, U., Holzmann, B., Haller, H., Limbourg, F.P. (2020). Notch and TLR signaling coordinate monocyte cell fate and inflammation. *Elife* *9*,e57007. DOI: 10.7554/eLife.57007
- Guseva, D., Rüdrieh, U., Kotnik, N., Gehring, M., Patsinakidis, N., Agelopoulos, K., Ständer, S., Homey, B., Kapp, A., Gibbs, B.F., Ponimaskin, E., Raap, U. (2020). Neuronal branching of sensory neurons is associated with BDNF-positive eosinophils in atopic dermatitis. *Clin Exp Allergy* *50*,577-584. DOI: 10.1111/cea.13560
- Häge, S., Sonntag, E., Borst, E.M., Tannig, P., Seyler, L., Bäuerle, T., Bailer, S.M., Lee, C.P., Müller, R., Wangen, C., Milbradt, J., Marschall, M. (2020). Patterns of Autologous and Nonautologous Interactions Between Core Nuclear Egress Complex (NEC) Proteins of alpha-, beta- and gamma-Herpesviruses *Viruses* *12*,303. DOI: 10.3390/v12030303
- Heimerl, M., Sieve, I., Ricke-Hoch, M., Erschow, S., Battmer, K., Scherr, M., Hilfiker-Kleiner, D. (2020). Neuraminidase-1 promotes heart failure after ischemia/reperfusion injury by affecting cardiomyocytes and invading monocytes/macrophages *Basic Res Cardiol* *115*,62. DOI: 10.1007/s00395-020-00821-z
- Hensel, N., Brickwedde, H., Tsaknakis, K., Grages, A., Braunschweig, L., Lüders, K.A., Lorenz, H.M., Lippross, S., Walter, L.M., Tavassol, F., Lienenklaus, S., Neunaber, C., Claus, P., Hell, A.K. (2020). Altered bone development with impaired cartilage formation precedes neuromuscular symptoms in spinal muscular atrophy *Hum Mol Genet* *29*,2662-2673. DOI: 10.1093/hmg/ddaa145
- Hunkler, H.J., Hoepfner, J., Huang, C.K., Chatterjee, S., Jara-Avaca, M., Gruh, I., Bolesani, E., Zweigerdt, R., Thum, T., Bär, C. (2020). The Long Non-coding RNA Cyranol Is Dispensable for Pluripotency of Murine and Human Pluripotent Stem Cells *Stem Cell Reports* *15*,13-21. DOI: 10.1016/j.stemcr.2020.05.011
- Ichanti, H., Sladic, S., Kalies, S., Haverich, A., Andree, B., Hilfiker, A. (2020). Characterization of Tissue Engineered Endothelial Cell Networks in Composite Collagen-Agarose Hydrogels *Gels* *6*,27. DOI: 10.3390/gels6030027
- Idowu, T.O., Etzrodt, V., Seeliger, B., Bolanos-Palmieri, P., Thamm, K., Haller, H., David, S. (2020). Identification of specific Tie2 cleavage sites and therapeutic modulation in experimental sepsis. *Elife* *9*,e59520. DOI: 10.7554/eLife.59520
- Jablunka, A., Etemadi, H., Adriawan, I.R., Ernst, D., Jacobs, R., Buyny, S., Witte, T., Schmidt, R.E., Atschekzei, F., Sogkas, G. (2020). Peripheral Blood Lymphocyte Phenotype Differentiates Secondary Antibody Deficiency in Rheumatic Disease from Primary Antibody Deficiency *J Clin Med* *9*,1049. DOI: 10.3390/jcm9041049
- Jirno, A.C., Rossdam, C., Grychtol, R., Happle, C., Gerardy-Schahn, R., Buettner, F.F.R., Hansen, G. (2020). Differential expression patterns of glycosphingolipids and C-type lectin receptors on immune cells in absence of functional regulatory T cells *Immun Inflamm Dis* *8*,512-522. DOI: 10.1002/iid3.334
- Kini, A., Singh, A.K., Riederer, B., Yang, I., Tan, Q., di Stefano, G., Tan, Q., Xiao, F., Xia, W., Suerbaum, S., Seidler, U. (2020). Slc26a3 deletion alters pH-microclimate, mucin biosynthesis, microbiome composition and increases the TNFalpha expression in murine colon *Acta Physiol (Oxf)* *230*,e13498. DOI: 10.1111/apha.13498
- Kiyan, Y., Tkachuk, S., Rong, S., Gorrasi, A., Ragno, P., Dumler, I., Haller, H., Shushakova, N. (2020). TLR4 Response to LPS Is Reinforced by Urokinase Receptor. *Front Immunol* *11*,573550. DOI: 10.3389/fimmu.2020.573550

Kutle, I., Szymanska-de Wijs, K.M., Bogdanow, B., Cuvalo, B., Steinbrück, L., Jonjic, S., Wagner, K., Niedenthal, R., Selbach, M., Wiebusch, L., Dezeljin, M., Messerle, M. (2020). Murine Cytomegalovirus M25 Proteins Sequester the Tumor Suppressor Protein p53 in Nuclear Accumulations. *J Virol* *94*. DOI: 10.1128/JVI.00574-20

Latham, S.L., Weiss, N., Schwanke, K., Thiel, C., Croucher, D.R., Zweigerdt, R., Manstein, D.J., Taft, M.H. (2020). Myosin-18B Regulates Higher-Order Organization of the Cardiac Sarcomere through Thin Filament Cross-Linking and Thick Filament Dynamics Cell Rep *32*,108090. DOI: 10.1016/j.celrep.2020.108090

Roy-Chowdhury, E., Brauns, N., Helmke, A., Nordlohne, J., Bräsen, J.H., Schmitz, J., Volkmann, J., Fleig, S.V., Kusche-Vihrog, K., Haller, H., von Vietinghoff, S. (2020). Human CD16+ monocytes promote a pro-atherosclerotic endothelial cell phenotype via CX3CR1-CX3CL1 interaction. *Cardiovasc Res* *cvaa234*. DOI: 10.1093/cvr/cvaa234

Sogkas, G., Adriawan, I.R., Dubrowskaja, N., Atsckezei, F., Schmidt, R.E. (2020). Homeostatic and pathogenic roles of PI3Kdelta in the human immune system *Adv Immunol* *146*,109-137. DOI: 10.1016/bs.ai.2020.02.001

Sogkas, G., Dubrowskaja, N., Adriawan, I.R., Anim, M., Witte, T., Schmidt, R.E., Atsckezei, F. (2020). High frequency of variants in genes associated with primary immunodeficiencies in patients with rheumatic diseases with secondary hypogammaglobulinaemia *Ann Rheum Dis* DOI: 10.1136/annrheumdis-2020-218280

Subh, L., Correa, W., Pinkvos, T.J., Behrens, P., Brandenburg, K., Gutschmann, T., Stiesch, M., Doll, K., Winkel, A. (2020). Synthetic anti-endotoxin peptides interfere with Gram-positive and Gram-negative bacteria, their adhesion and biofilm formation on titanium *J Appl Microbiol* *129*,1272-1286. DOI: 10.1111/jam.14701

Tumpara, S., Martinez-Delgado, B., Gomez-Mariano, G., Liu, B., DeLuca, D.S., Korenbaum, E., Jonigk, D., Jugert, F., Wurm, F.M., Wurm, M.J., Welte, T., Janciauskiene, S. (2020). The Delivery of alpha1-Antitrypsin Therapy Through Transepidermal Route: Worthwhile to Explore *Front Pharmacol* *11*,983. DOI: 10.3389/fphar.2020.00983

Xu, J., Zeug, A., Riederer, B., Yeruva, S., Griesbeck, O., Daniel, H., Tuo, B., Ponimaskin, E., Dong, H., Seidler, U. (2020). Calcium-sensing receptor regulates intestinal dipeptide absorption via Ca²⁺ signaling and IKCa activation *Physiol Rep* *8*,e14337. DOI: 10.14814/phy2.14337

Letter

Gupta, C., Kaulfuss, S., Görlich, K., Othman, B., Chaturvedi, A., Heuser, M. (2020). Combination treatment of an IDH1 inhibitor with chemotherapy in IDH1 mutant acute myeloid leukemia *Ann Hematol* *99*,1415-1417. DOI: 10.1007/s00277-020-04001-w

Zentrale Forschungseinrichtung für Metabolomics – 9414

Originalpublikationen

Chaturvedi, A., Goparaju, R., Gupta, C., Weder, J., Klünemann, T., Araujo Cruz, M.M., Kloos, A., Goerlich, K., Schottmann, R., Othman, B., Struys, E.A., Bähre, H., Grote-Koska, D., Brand, K., Ganser, A., Preller, M., Heuser, M. (2020). In vivo efficacy of mutant IDH1 inhibitor HMS-101 and structural resolution of distinct binding site. *Leukemia* *34*,416-426. DOI: 10.1038/s41375-019-0582-x

de Araujo, L.S., Pessler, K., Sühs, K.W., Novoselova, N., Klawonn, F., Kuhn, M., Kaever, V., Müller-Vahl, K., Trebst, C., Skripuletz, T., Stangel, M., Pessler, F. (2020). Phosphatidylcholine PC ae C44:6 in cerebrospinal fluid is a sensitive biomarker for bacterial meningitis *J Transl Med* *18*,9. DOI: 10.1186/s12967-019-02179-w

Latoscha, A., Drexler, D.J., Al-Bassam, M.M., Bandera, A.M., Kaever, V., Findlay, K.C., Witte, G., Tschowri, N. (2020). c-di-AMP hydrolysis by the phosphodiesterase AtaC promotes differentiation of multicellular bacteria. *Proc Natl Acad Sci U S A* *117*,7392-7400. DOI: 10.1073/pnas.1917080117

Liu, Y., Lee, C., Li, F., Trcek, J., Bähre, H., Guo, R.T., Chen, C.C., Chernobrovkin, A., Zubarev, R., Römling, U. (2020). A Cyclic di-GMP Network Is Present in Gram-Positive Streptococcus and Gram-Negative Proteus Species *ACS Infect Dis* *6*,2672-2687. DOI: 10.1021/acscinfecdis.0c00314

Schäfer, H., Beckert, B., Frese, C.K., Steinchen, W., Nuss, A.M., Beckstette, M., Hantke, I., Driller, K., Sudzinova, P., Krasny, L., Kaever, V., Dersch, P., Bange, G., Wilson, D.N., Turgay, K. (2020). The alarmones (p)ppGpp are part of the heat shock response of *Bacillus subtilis*. *PLoS Genet* *16*,e1008275. DOI: 10.1371/journal.pgen.1008275

Schimmel, K., Jung, M., Foinquinos, A., Jose, G.S., Beaumont, J., Bock, K., Grote-Levi, L., Xiao, K., Bär, C., Pfanne, A., Just, A., Zimmer, K., Ngoy, S., Lopez, B., Ravassa, S., Samolovac, S., Janssen-Peters, H., Remke, J., Scherf, K., Dangwal, S., Piccoli, M.T., Kleemiss, F., Kreutzer, F.P., Kenneweg, F., Leonardy, J., Hobuss, L., Santer, L., Do, Q.T., Geffers, R., Braesen, J.H., Schmitz, J., Brandenberger, C., Muller, D.N., Wilck, N., Kaever, V., Bahre, H., Batkai, S., Fiedler, J., Alexander, K.M., Wertheim, B.M., Fisch, S., Liao, R., Diez, J., Gonzalez, A., Thum, T. (2020). Natural Compound Library Screening Identifies New Molecules for the Treatment of Cardiac Fibrosis and Diastolic Dysfunction. *Circulation* 141,751-767. DOI: 10.1161/CIRCULATIONAHA.119.042559

Thibeaux, R., Soupe-Gilbert, M.E., Kainiu, M., Girault, D., Bierque, E., Fernandes, J., Bahre, H., Douyere, A., Eskenazi, N., Vinh, J., Pocardeau, M., Goarant, C. (2020). The zoonotic pathogen *Leptospira interrogans* mitigates environmental stress through cyclic-di-GMP-controlled biofilm production. *NPJ Biofilms Microbiomes* 6,24. DOI: 10.1038/s41522-020-0134-1

Thöming, J.G., Tomasch, J., Preusse, M., Koska, M., Grahl, N., Pohl, S., Willger, S.D., Kaever, V., Müsken, M., Häussler, S. (2020). Parallel evolutionary paths to produce more than one *Pseudomonas aeruginosa* biofilm phenotype *NPJ Biofilms Microbiomes* 6,2. DOI: 10.1038/s41522-019-0113-6

Wallner, T., Pedroza, L., Voigt, K., Kaever, V., Wilde, A. (2020). The cyanobacterial phytochrome 2 regulates the expression of motility-related genes through the second messenger cyclic di-GMP. *Photochem Photobiol Sci* 19,631-643. DOI: 10.1039/c9pp00489k

Zentrale Forschungseinrichtung für Genomics (Research Core Unit Genomics-RCUG) – 9415

Originalpublikationen

Cramer, N., Fischer, S., Hedtfeld, S., Dorda, M., Tümmler, B. (2020). Intracolon competitive fitness of longitudinal cystic fibrosis *Pseudomonas aeruginosa* airway isolates in liquid cultures *Environ Microbiol* 22,2536-2549. DOI: 10.1111/1462-2920.14924

Gamrekashvili, J., Kapanadze, T., Sablotny, S., Ratiu, C., Dastagir, K., Lochner, M., Karbach, S., Wenzel, P., Sitnow, A., Fleig, S., Sparwasser, T., Kalinke, U., Holzmann, B., Haller, H., Limbourg, F.P. (2020). Notch and TLR signaling coordinate monocyte cell fate and inflammation. *Elife* 9,e57007. DOI: 10.7554/eLife.57007

Jirno, A.C., Busse, M., Happle, C., Skuljec, J., Dalüge, K., Habener, A., Grychtol, R., DeLuca, D.S., Breiholz, O.D., Prinz, I., Hansen, G. (2020). IL-17 regulates DC migration to the peribronchial LNs and allergen presentation in experimental allergic asthma *Eur J Immunol* 50,1019-1033. DOI: 10.1002/eji.201948409

Kreimann, K., Jang, M.S., Rong, S., Greite, R., von Vietinghoff, S., Schmitt, R., Bräsen, J.H., Schiffer, L., Gerstenberg, J., Vijayan, V., Dittrich-Breiholz, O., Wang, L., Karsten, C.M., Gwinner, W., Haller, H., Immenschuh, S., Gueler, F. (2020). Ischemia Reperfusion Injury Triggers CXCL13 Release and B-Cell Recruitment After Allogenic Kidney Transplantation *Front Immunol* 11,DOI: 10.3389/fimmu.2020.01204

Moschny, N., Zindler, T., Jahn, K., Dorda, M., Davenport, C.F., Wiehlmann, L., Maier, H.B., Eberle, F., Bleich, S., Neyazi, A., Frieling, H. (2020). Novel candidate genes for ECT response prediction—a pilot study analyzing the DNA methylome of depressed patients receiving electroconvulsive therapy *Clin Epigenetics* 12,114. DOI: 10.1186/s13148-020-00891-9

Ostroumov, D., Duong, S., Wingerath, J., Woller, N., Manns, M.P., Timrott, K., Kleine, M., Ramackers, W., Roessler, S., Nahnsen, S., Czemmel, S., Dittrich-Breiholz, O., Eggert, T., Kühnel, F., Wirth, T.C. (2021). Transcriptome profiling identifies TIGIT as a marker of T cell exhaustion in liver cancer. *Hepatology* 73,1399-1418. DOI: 10.1002/hep.31466

Papadogianni, G., Ravens, I., Dittrich-Breiholz, O., Bernhardt, G., Georgiev, H. (2020). Impact of Aging on the Phenotype of Invariant Natural Killer T Cells in Mouse Thymus. *Front Immunol* 11,575764. DOI: 10.3389/fimmu.2020.575764

Pust, M.M., Wiehlmann, L., Davenport, C., Rudolf, I., Dittrich, A.M., Tümmler, B. (2020). The human respiratory tract microbial community structures in healthy and cystic fibrosis infants *NPJ Biofilms Microbiomes* 6,61. DOI: 10.1038/s41522-020-00171-7

Roger, Y., Burmeister, L., Hamm, A., Elger, K., Dittrich-Breiholz, O., Flörkemeier, T., Hoffmann, A. (2020). Heparin Anticoagulant for Human Bone Marrow Does Not Influence In Vitro Performance of Human Mesenchymal Stromal Cells *Cells* 9,1580. DOI: 10.3390/cells9071580

Schamschula, E., Hagmann, W., Assenov, Y., Hedtfeld, S., Farag, A.K., Roesner, L.M., Wiehlmann, L., Stanke, F., Fischer, S., Risch, A., Tümmeler, B. (2021). Immunotyping of clinically divergent p.Phe508del homozygous monozygous cystic fibrosis twins *J Cyst Fibros* *20*,149-153. DOI: 10.1016/j.jcf.2020.06.009

Schieck, M., Lentjes, J., Thomay, K., Hofmann, W., Behrens, Y.L., Hagedorn, M., Ebersold, J., Davenport, C.F., Fazio, G., Möricke, A., Buchmann, S., Alten, J., Cario, G., Schrappe, M., Bergmann, A.K., Stanulla, M., Steinemann, D., Schlegelberger, B., Cazzaniga, G., Göhring, G. (2020). Implementation of RNA sequencing and array CGH in the diagnostic workflow of the AIEOP-BFM ALL 2017 trial on acute lymphoblastic leukemia *Ann Hematol* *99*,809-818. DOI: 10.1007/s00277-020-03953-3

Streich, K., Smoczek, M., Hegermann, J., Dittrich-Breiholz, O., Bornemann, M., Siebert, A., Bleich, A., Buettner, M. (2020). Dietary lipids accumulate in macrophages and stromal cells and change the microarchitecture of mesenteric lymph nodes *J Adv Res* *24*,291-300. DOI: 10.1016/j.jare.2020.04.020

Yazicioglu, T., Mühlfeld, C., Autilio, C., Huang, C.K., Bär, C., Dittrich-Breiholz, O., Thum, T., Perez-Gil, J., Schmiedl, A., Brandenberger, C. (2020). Aging impairs alveolar epithelial type II cell function in acute lung injury *Am J Physiol Lung Cell Mol Physiol* *319*,L755-L769. DOI: 10.1152/ajplung.00093.2020

Zentrale Forschungseinrichtung für Zellsortierung (Sorter-Lab) – 9411

Originalpublikationen

Fichtner, A.S., Bubke, A., Rampoldi, F., Wilharm, A., Tan, L., Steinbrück, L., Schultze-Florey, C., von Kaisenberg, C., Prinz, I., Herrmann, T., Ravens, S. (2020). TCR repertoire analysis reveals phosphoantigen-induced polyclonal proliferation of Vgamma9Vdelta2 T cells in neonates and adults. *J Leukoc Biol* *107*,1023-1032. DOI: 10.1002/JLB.1MA0120-427RR

Germeshausen, M., Ballmaier, M. (2021). CAMT-MPL: Congenital Amegakaryocytic Thrombocytopenia caused by MPL mutations - Heterogeneity of a monogenic disorder - Comprehensive analysis of 56 patients *Haematologica* *106*,2439-2448. DOI: 10.3324/haematol.2020.257972

Hahn, K., Pollmann, L., Nowak, J., Nguyen, A.H.H., Haake, K., Neehus, A.L., Waqas, S.F.H., Pessler, F., Baumann, U., Hetzel, M., Casanova, J.L., Schulz, A., Bustamante, J., Ackermann, M., Lachmann, N. (2020). Human Lentiviral Gene Therapy Restores the Cellular Phenotype of Autosomal Recessive Complete IFN-gamma1 Deficiency *Mol Ther Methods Clin Dev* *17*,785-795. DOI: 10.1016/j.omtm.2020.04.002

Martens, R., Permanyer, M., Werth, K., Yu, K., Braun, A., Halle, O., Halle, S., Patzer, G.E., Bosnjak, B., Kiefer, F., Janssen, A., Friedrichsen, M., Poetzsch, J., Kohli, K., Lueder, Y., Gutierrez Jauregui, R., Eckert, N., Worbs, T., Galla, M., Förster, R. (2020). Efficient homing of T cells via afferent lymphatics requires mechanical arrest and integrin-supported chemokine guidance. *Nat Commun* *11*,1114. DOI: 10.1038/s41467-020-14921-w

Moschny, N., Jahn, K., Bajbouj, M., Maier, H.B., Ballmaier, M., Khan, A.Q., Pollak, C., Bleich, S., Frieling, H., Neyazi, A. (2020). DNA Methylation of the t-PA Gene Differs Between Various Immune Cell Subtypes Isolated From Depressed Patients Receiving Electroconvulsive Therapy *Front Psychiatry* *11*,571. DOI: 10.3389/fpsy.2020.00571

Moschny, N., Jahn, K., Maier, H.B., Khan, A.Q., Ballmaier, M., Liepach, K., Sack, M., Skripuletz, T., Bleich, S., Frieling, H., Neyazi, A. (2020). Electroconvulsive therapy, changes in immune cell ratios, and their association with seizure quality and clinical outcome in depressed patients *Eur Neuropsychopharmacol* *36*,18-28. DOI: 10.1016/j.euroneuro.2020.03.019

Papadogianni, G., Ravens, I., Dittrich-Breiholz, O., Bernhardt, G., Georgiev, H. (2020). Impact of Aging on the Phenotype of Invariant Natural Killer T Cells in Mouse Thymus. *Front Immunol* *11*,575764. DOI: 10.3389/fimmu.2020.575764

Ravens, S., Fichtner, A.S., Willers, M., Torkornoo, D., Pirr, S., Schöning, J., Deseke, M., Sandrock, I., Bubke, A., Wilharm, A., Dodoo, D., Egyir, B., Flanagan, K.L., Steinbrück, L., Dickinson, P., Ghazal, P., Adu, B., Viemann, D., Prinz, I. (2020). Microbial exposure drives polyclonal expansion of innate gammadelta T cells immediately after birth. *Proc Natl Acad Sci U S A* *117*,18649-18660. DOI: 10.1073/pnas.1922588117

Theobald, S.J., Kreer, C., Khailaie, S., Bonifacius, A., Eiz-Vesper, B., Figueiredo, C., Mach, M., Backovic, M., Ballmaier, M., Koenig, J., Olbrich, H., Schneider, A., Volk, V., Danisch, S., Gieselmann, L., Ercanoglu, M.S., Messerle, M., Kaisenberg, C.V., Witte, T., Klawonn, F., Meyer-Hermann, M., Klein, F., Stripecke, R. (2020). Repertoire characterization and validation of gB-specific human IgGs directly cloned

from humanized mice vaccinated with dendritic cells and protected against HCMV PLoS Pathog 16:e1008560. DOI: 10.1371/journal.ppat.1008560

Wilharm, A., Brigas, H.C., Sandrock, I., Ribeiro, M., Amado, T., Reinhardt, A., Demera, A., Hoenicke, L., Strowig, T., Carvalho, T., Prinz, I., Ribot, J.C. (2021). Microbiota-dependent expansion of testicular IL-17-producing Vgamma6(+) gammadelta T cells upon puberty promotes local tissue immune surveillance. Mucosal Immunol 14:242-252. DOI: 10.1038/s41385-020-0330-6

Case reports

Niehues, T., Özgür, T.T., Bickes, M., Waldmann, R., Schöning, J., Bräsen, J., Hagel, C., Ballmaier, M., Klusmann, J.H., Niedermayer, A., Pannicke, U., Enders, A., Dücker, G., Siepermann, K., Hempel, J., Schwarz, K., Viemann, D. (2020). Mutations of the gene FNIP1 associated with a syndromic autosomal recessive immunodeficiency with cardiomyopathy and pre-excitation syndrome. Eur J Immunol 50:1078-1080. DOI: 10.1002/eji.201948504

Zentrale Forschungseinrichtung: Transcriptomics

Originalpublikationen

Christians, A., Weiss, A.C., Martens, H., Klopff, M.G., Hennies, I., Haffner, D., Kispert, A., Weber, R.G. (2020). Inflammation-like changes in the urothelium of Lifr-deficient mice and LIFR-haploinsufficient humans with urinary tract anomalies Hum Mol Genet 29:1192-1204. DOI: 10.1093/hmg/ddaa048

Haake, K., Neehus, A.L., Buchegger, T., Kühnel, M.P., Blank, P., Philipp, F., Oleaga-Quintas, C., Schulz, A., Grimley, M., Goethe, R., Jonigk, D., Kalinke, U., Boisson-Dupuis, S., Casanova, J.L., Bustamante, J., Lachmann, N. (2020). Patient iPSC-Derived Macrophages to Study Inborn Errors of the IFN-gamma Responsive Pathway Cells 9:DOI: 10.3390/cells9020483

ZIB

Originalpublikationen

Carriche, G.M., Almeida, L., Stüve, P., Velasquez, L., Dhillon-LaBrooy, A., Roy, U., Lindenberg, M., Strowig, T., Plaza-Sirvent, C., Schmitz, I., Lochner, M., Simon, A.K., Sparwasser, T. (2021). Regulating T-cell differentiation through the polyamine spermidine. J Allergy Clin Immunol 147:335-348.e11. DOI: 10.1016/j.jaci.2020.04.037

Vorträge

Galeev, A., Suwandi, A., Oktiviyari, A., Bakker, H., Routier, F., Krone, L., Hensel, M., Grassl, G.A. (2020). Proteoglycan-dependent endolysosomal fusion affects intracellular survival of Salmonella Typhimurium. DGHM Jahrestagung 2020, 08.-11.03.2020, Leipzig.

Poster

Lanfermann, C., Kohn, M., Laudeley, R., Rheinheimer, C., Glage, S., Klos, A. (2020). Chlamydia trachomatis reinfection with different serovars provides serovar-independent protection and faster recovery in a mouse lung infection model. 18. Deutscher Chlamydienworkshop, 05.-07.02.2020, Lübeck.

Lanfermann, C., Kohn, M., Laudeley, R., Rheinheimer, C., Glage, S., Klos, A. (2020). Chlamydia trachomatis reinfection with different serovars provides serovar-independent protection and faster recovery in a mouse lung model. DGHM Jahrestagung 2020, 08.-11.03.2020, Leipzig.

Promotionen

de Barros Martins, J.L. (2020). Investigating the role of miR-181ab-1 in development and function of intraepithelial lymphocytes. Dissertation, Medizinische Hochschule Hannover, 2020

Galeev, A. (2020). Host glycoconjugates in Salmonella infection: a bittersweet symphony. Kulative Dissertation, Medizinische Hochschule Hannover, 2020

Martins Carriche, G. (2020). Modulation of T cell differentiation and function by bacterial metabolites Dissertation, Medizinische Hochschule Hannover, 2020

Otoo, D.A. (2019). Characterization of functional domains in the large tegument protein pUL36 of herpes simplex virus type 1 Dissertation, Medizinische Hochschule Hannover, 2020

Sake, S.M. (2020). Development of a lentiviral pseudotype system for murine pneumonia virus and characterization of human respiratory syncytial virus targeting antivirals. Dissertation, Medizinische Hochschule Hannover, 2020

Sharma, S. (2020). Role of toll-like receptor 11 (TLR11) in *Salmonella* infection. Dissertation, Medizinische Hochschule Hannover, 2020

Tan, L. (2020). Tissue adaptation of IL-17-producing γ T cells. Kumulative Dissertation, Medizinische Hochschule Hannover, 2020

Torres, D.A.N. (2019). Kaposi sarcoma-associated Herpesvirus latency associated nuclear antigen (LANA) protein complexes isolation, separation and confirmation of new possible protein interactors Dissertation, Medizinische Hochschule Hannover, 2020