

## Publikationen der StrucMed Studierenden

Erichsen TJ, **Aehlen A**, Ehmer U, Kalthoff S, Manns MP, Strassburg CP. Regulation of the human bile acid UDP-glucuronosyltransferase 1A3 by the farnesoid X receptor and bile acids. *J Hepatol.* 2010; 52(4):570-8.

Napp LC\*, **Augustynik M\***, Paesler F, Krishnasamy K, Woiterski J, Limbourg A, Bauersachs J, Drexler H, Le Noble F, Limbourg FP. Extrinsic Notch ligand Delta-like 1 regulates tip cell selection and vascular branching morphogenesis. *Circ Res.* 2012 Feb 17;110(4):530-5. \*equal contribution

**Bajor A**, Tischer S, Figueiredo C, Wittmann M, Immenschuh S, Blasczyk R, Eiz-Vesper B. Modulatory role of calreticulin as chaperokine for dendritic cell-based immunotherapy. *Clin Exp Immunol.* 2011;165(2):220-34.

Leifheit-Nestler M, Richter B, **Basaran M**, Nespore J, Vogt I, Alesutan I, Voelkl J, Lang F, Heineke J, Krick, Haffner D. Impact of altered mineral metabolism on pathological cardiac remodeling in elevated fibroblast growth factor 23. *Front Endocrinol (Lausanne)* 2018;9:333

Taubert R, Hardtke-Wolenski M, Noyan F, Wilms A, **Baumann AK**, Schlue J, Olek S, Falk CS, Manns MP, Jaeckel E. Intrahepatic regulatory T cells in autoimmune hepatitis are associated with treatment response and depleted with current therapies. *J Hepatol.* 2014 Nov;61(5):1106-14.

**Behnert A**, Fritzler MJ, Teng B, Zhang M, Bollig F, Haller H, Skoberne A, Mahler M, Schiffer M. An anti-phospholipase A2 receptor quantitative immunoassay and epitope analysis in membranous nephropathy reveals different antigenic domains of the receptor. *PLoS One.* 2013 Apr 29;8(4):e61669.

Mahapatra S, Albrecht M, **Behrens B**, Jirmo A, Behrens G, et al. Delineating the Role of Histamine-1- and -4-Receptors in a Mouse Model of Th2-Dependent Antigen-Specific Skin Inflammation. *PLoS ONE* 2014. 9(2): e87296.

Schmiedl A, **Behrens J**, Zscheppang K, Purevdorj E, von Mayersbach D, Liese A, Dammann CE. Lipopolysaccharide-induced injury is more pronounced in fetaltransgenic ErbB4-deleted lungs. *Am J Physiol Lung Cell Mol Physiol.* 2011 Oct;301(4):L490-9.

Liu W, Purevdorj E, Zscheppang K, von Mayersbach D, **Behrens J**, Brinkhaus MJ, Nielsen HC, Schmiedl A, Dammann CE. ErbB4 regulates the timely progression of late fetal lung development. *Biochim Biophys Acta.* 2010 Jul;1803(7):832-9.

Illsinger S, Janzen N, Sander S, Schmidt KH, Bednarczyk J, Mallunat L, **Bode J**, Hageböiling F, Hoy L, Lücke T, Hass R, Das AM. Preeclampsia and HELLP syndrome: impaired mitochondrial function in umbilical endothelial cells. *Reprod Sci.* 2010 Mar;17(3):219-26.

**Boeckmann I\***, **Lischka J\***, Richter B, Deppe J, Rahn A, Fischer DC, Heineke J, Haffner D, Leifheit-Nestler M. FGF23-mediated activation of RAAS promotes cardiac hypertrophy and fibrosis. *Int J Mol Sci* 2019;20:4634; \*shared first authorship

**Boetzkes A**, **Felkel KW**, Zeiser J, Jochim N, Just I, Pich A. Secretome analysis of *Clostridium difficile* strains. *Arch Microbiol.* 2012 Aug;194(8):675-87.

**Bürgel B**, Friesland M, Koch A, Manns MP, Wedemeyer H, Weissenborn K, Schulz-Schaeffer WJ, Pietschmann T, Steinmann E, Ciesek S. Hepatitis C virus enters human peripheral neuroblastoma cells - evidence for extra-hepatic cells sustaining hepatitis C virus penetration. *J Viral Hepat.* 2011 Aug;18(8):562-70

**Carlens J**, Wahl B, Ballmaier M, Bulfone-Paus S, Förster R, Pabst O. Common gamma-chain-dependent signals confer selective survival of eosinophils in the murine small intestine. *J Immunol.* 2009;183(9):5600-7.

**Chhatwal P**, Bankwitz D, Gentzsch J, Frentzen A, Schult P, Lohmann V, Pietschmann T (2012). "Bile acids specifically increase hepatitis C virus RNA-replication." *PLoS One* 7(4): e36029. Epub 2012 Apr 25.

**Lachmann N\***, **Czarnecki K\***, Brenning S, Phaltane R, Heise M, Heinz N, Kempf H, Dilloo D, Kaefer V, Schambach A, Heuser M, Moritz T. Deoxycytidine-kinase knockdown as a novel myeloprotective strategy in the context of fludarabine, cytarabine or cladribine therapy. *Leukemia.* 2015 Apr 29. doi: 10.1038/leu.2015.108. [Epub ahead of print] \*equal contribution

**Czerner CP**, Klos A, Seifert R, Neumann D. Histamine induces chemotaxis and phagocytosis in murine bone marrow-derived macrophages and RAW 264.7 macrophage-like cells via histamine H4-receptor. *Inflamm Res.* 2014 Mar;63(3):239-47.

Schoen A\*, Leifheit-Nestler M\*, **Deppe J**, Fischer DC, Bayazit AK, Obrycki L, et al for the 4C Study consortium and the ESPN CKD-MBD working group. Active vitamin D is cardioprotective in experimental uraemia but not in children with CKD stages 3-5. *Nephrol Dial Transplant* 2021;36:442-451; \*shared first authorship

**Dey-Hazra E**, Hertel B, Kirsch T, Woywodt A, Lovric S, Haller H, Haubitz M, Erdbruegger U. Detection of circulating microparticles by flow cytometry: influence of centrifugation, filtration of buffer, and freezing. *Vasc Health Risk Manag.* 2010 Dec 6;6:1125-33.

**Duesberg CB**, Welte T, Pletz MW. The Lys137Asn mutation as surrogate marker for developing fluoroquinolone resistance in *Streptococcus pneumoniae*? *J Chemother.* 2007;19(6):750-1; discussion 751-2.

**Duesberg CB**, Malhotra-Kumar S, Goossens H, McGee L, Klugman KP, Welte T, Pletz MW. Interspecies recombination occurs frequently in quinolone resistance determining regions of clinical isolates of *Streptococcus pyogenes*. *Antimicrob Agents Chemother.* 2008; 52(11):4191-3.

**Eitner F**, Richter B, Schwänen S, Szaroszyk M, Vogt I, Grund A, Thum T, Heineke J, Haffner D, Leifheit-Nestler M. Comprehensive expression analysis of cardiac fibroblast growth factor 23 in health and pressure-induced cardiac hypertrophy. *Front Cell Dev Biol* 2022;9:791479

Schmidt A, Jabusch HC, Altenmüller E, Hagenah J, Brüggemann N, Lohmann K, **Enders L**, Kramer PL, Saunders-Pullman R, Bressman SB, Münchau A, Klein C. Etiology of musician's dystonia: familial or environmental? *Neurology.* 2009 Apr 7; 72(14):1248-54.

**Enders L**, Spector JT, Altenmüller E, Schmidt A, Klein C, Jabusch HC. Musician's dystonia and comorbid anxiety: two sides of one coin? *Mov Disord.* 2011;26(3):539-42.

Schmidt A, Jabusch HC, Altenmüller E, **Enders L**, Saunders-Pullman R, Bressman SB, Münchau A, Klein C, Hagenah J. Phenotypic spectrum of musician's dystonia: a task-specific disorder? *Mov Disord.* 2011 Feb 15;26(3):546-9

Emmrich S, Katsman-Kuipers JE, Henke K, Khatib ME, Jammal R, **Engeland F**, Dasci F, Zwaan CM, den Boer ML, Verboon L, Sary J, Baruchel A, de Haas V, Danen-van Oorschot AA, Fornerod M, Pieters R, Reinhardt D, Klusmann JH, van den Heuvel-Eibrink MM. miR-9 is a tumor suppressor in pediatric AML with t(8;21). *Leukemia.* 2014 May;28(5):1022-32.

**Engmann, J**; Rüdrieh, U; Behrens, G; Papakonstantinou, E; Gehring, M; Kapp, A; Raap, U Increased Activity and Apoptosis of Eosinophils in Blister Fluids, Skin and Peripheral Blood of Patients with Bullous Pemphigoid *Acta Derm. Venereol.*, 2017 vol. 97(4) pp. 464-471

Rüdrieh, U; Gehring, M; Papakonstantinou, E; Rabenhorst, A; **Engmann, J**; Kapp, A; Hartmann, K; Meyer, NH; Gibbs, BF; Raap, U Eosinophils are a Major Source of Interleukin-31 in Bullous Pemphigoid *Acta Derm. Venereol.*, 2018

Montag J, Kowalski K, Makul M, **Ernstberger P**, Radocaj A, Beck J, Becker E, Tripathi S, Keyser B, Mühlfeld C, Wissel K, Pich A, van der Velden J, Dos Remedios CG, Perrot A, Francino A, Navarro-López F, Brenner B, Kraft T. Burst-Like Transcription of Mutant and Wildtype MYH7-Alleles as Possible Origin of Cell-to-Cell Contractile Imbalance in Hypertrophic Cardiomyopathy. *Front Physiol.* 2018 Apr 9;9:359.

Kreimeyer I, **Euler F**, Marckscheffel A, Tatge H, Pich A, Olling A, Schwarz J, Just I, Gerhard R. Autoproteolytic cleavage mediates cytotoxicity of *Clostridium difficile* toxin A. *Naunyn Schmiedebergs Arch Pharmacol.* 2011 Mar;383(3):253-62.

**Feurstein S**, Rücker FG, Bullinger L, Hofmann W, Manukjan G, Göhring G, Lehmann U, Heuser M, Ganser A, Döhner K, Schlegelberger B, Steinemann D. Haploinsufficiency of ETV6 and CDKN1B in patients with acute myeloid leukemia and complex karyotype. *BMC Genomics.* 2014 Sep 11;15:784.

Praulich I, Tauscher M, Göhring G, Glaser S, Hofmann W, **Feurstein S**, Flotho C, Lichter P, Niemeyer CM, Schlegelberger B, Steinemann D. Clonal heterogeneity in childhood myelodysplastic syndromes--challenge for the detection of chromosomal imbalances by array-CGH. *Genes Chromosomes Cancer.* 2010 Oct;49(10):885-900.

Greten TF, Ormandy LA, **Fikuart A**, Höchst B, Henschen S, Hörning M, Manns MP, Korangy F. Low-dose cyclophosphamide treatment impairs regulatory T cells and unmasks AFP-specific CD4+ T-cell responses in patients with advanced HCC. *Journal of Immunotherapy.* 2010 Feb-Mar;33(2):211-8.

**Förster F**, Singla A, Arora SK, Schmidt RE, Jacobs R. CD20+ T cell numbers are decreased in untreated HIV-1 patients and recover after HAART. *Immunol Lett.* 2012 Aug 30;146(1-2):74-8.

Bunse CE, **Fortmeier V**, Tischer S, Zilian E, Figueiredo C, Witte T, Blasczyk R, Immenschuh S, Eiz-Vesper B. Modulation of heme oxygenase-1 by metalloporphyrins increases anti-viral T cell responses. *Clin Exp Immunol.* 2015 Feb;179(2):265-76.

Niebuhr M, **Gathmann M**, Scharonow H, **Mamerow D**, Mommert S, Balaji H, Werfel T. Staphylococcal a-toxin is a strong inducer of Interleukin (IL)-17 in humans. *Infect Immun*. 2011;79(4):1615-22

Niebuhr M, Scharonow H, **Gathmann M**, **Mamerow D**, Werfel T. Staphylococcal exotoxins are strong inducers of IL-22: A potential role in atopic dermatitis. *J Allergy Clin Immunol*. 2010; 126(6):1176-83

**Gehring G**, Rohrmann K, Atenchong N, Mittler E, Becker S, Dahlmann F, Pöhlmann S, Vondran FW, David S, Manns MP, Ciesek S, von Hahn T. The clinically approved drugs amiodarone, dronedarone and verapamil inhibit filovirus cell entry. *J Antimicrob Chemother*. 2014 Aug;69(8):2123-31.

Gamrekelashvili J, **Giagnorio R**, **Jusofie J**, Soehnlein O, Duchene J, Briseño CG, Ramasamy SK, Krishnasamy K, Limbourg A, Kapanadze T, Ishifune C, Hinkel R, Radtke F, Strobl LJ, Zimmer-Strobl U, Napp LC, Bauersachs J, Haller H, Yasutomo K, Kupatt C, Murphy KM, Adams RH, Weber C, Limbourg FP. Regulation of monocyte cell fate by blood vessels mediated by Notch signalling. *Nat Commun*. 2016 Aug 31;7:12597.

Gürlevik E, Schache P, **Goez A**, Kloos A, Woller N, Armbrrecht N, Manns MP, Kubicka S, Kühnel F. Meganuclease-mediated virus self-cleavage facilitates tumor-specific virus replication. *Mol Ther*. 2013 Sep;21(9):1738-48.

Frenz T, **Graalmann L**, Detje CN, Döring M, Grabski E, Scheu S, Kalinke U. Independent of plasmacytoid dendritic cell (pDC) infection, pDC triggered by virus-infected cells mount enhanced type I IFN responses of different composition as opposed to pDC stimulated with free virus. *J Immunol*. 2014 Sep 1;193(5):2496-503.

Calvier L#, Legchenko E#, **Grimm L#**, Sallmon H, Hatch A, Plouffe PD, Schroeder C, Bauersachs J, Murthy SK, Hansmann G. #equal contribution. Galectin-3 and aldosterone as potential tandem biomarkers in pulmonary arterial hypertension. *Heart* 2016; in press

Schmiedl A\*, **Grützner D\***, Hoffmann T, von Hörsten S, Stephan M. DPP4 inhibitors increase differentially the expression of surfactant proteins in Fischer 344 rats. *Acta Physiol (Oxf)*. 2014 Nov;212(3):248-61. (\*equal contribution)

**Guelke, E.**; Strauß,S.; Bucan, V. Allmeling, C.; Radtke, C.; Vogt, P. M.; Reimers, K. LOP34: Neuronal guidance factors: A new approach to reconstructive surgery *Plastic & Reconstructive Surgery*: August 2013 - Volume 132 - Issue 2 - p 507–508

**Hahn A**, Thiessen N, Pabst R, Buettner M, Bode U. Mesenteric lymph nodes are not required for an intestinal immunoglobulin A response to oral cholera toxin. *Immunology*. 2010 Mar;129(3):427-36.

**Halabi-Cabezón I**, Huelsenbeck J, May M, Ladwein M, Rottner K, Just I, Genth H. Prevention of the cytopathic effect induced by *Clostridium difficile* Toxin B by active Rac1. *FEBS Lett*. 2008; 582(27):3751-6

**Halle S**, Bumann D, Herbrand H, Willer Y, Dahne S, Forster R, Pabst O. Solitary intestinal lymphoid tissue provides a productive port of entry for *Salmonella enterica* serovar Typhimurium. *Infect Immun*. 2007; 75(4):1577-85.

**Hammerschmidt A**, Chatterji B, Zeiser J, Schröder A, Genieser H-G, Pich A, Kaefer V, Schwede F, Wolter S, Seifert R (2012) Binding of Regulatory Subunits of Cyclic AMP-Dependent Protein Kinase to Cyclic CMP Agarose. *PLoS ONE* 7(7): e39848.

**Harms KC**, Kapitzka KP, Pahl L, Tran AT, Volkmann L, Buers D, Karst M, Stuhmann M, Bernateck M. Association of TNF- $\alpha$  polymorphism rs1800629 with multisomatoform disorder in a group of German patients and healthy controls: an explorative study. *Cytokine*. 2013 Feb;61(2):389-93.

**Hasan A**, Danker KY, Wolter S, Bähre H, Kaefer V, Seifert R. Soluble adenylyl cyclase accounts for high basal cCMP and cUMP concentrations in HEK293 and B103 cells. *Biochem Biophys Res Commun*. 2014 May 30;448(2):236-40.

Lochner, M., Bérard, M., Sawa, S., **Hauer, S.**, Gaboriau-Routhiau, V., Fernandez, T. D., Snel, J., et al. (2011). Restricted microbiota and absence of cognate TCR antigen leads to an unbalanced generation of Th17 cells. *Journal of Immunology (Baltimore, Md. : 1950)*, 186(3), 1531–7

Emmrich S, Katsman-Kuipers JE, **Henke K**, Khatib ME, Jammal R, Engeland F, Dasci F, Zwaan CM, den Boer ML, Verboon L, Stary J, Baruchel A, de Haas V, Danen-van Oorschot AA, Fornerod M, Pieters R, Reinhardt D, Klusmann JH, van den Heuvel-Eibrink MM. miR-9 is a tumor suppressor in pediatric AML with t(8;21). *Leukemia*. 2014 May;28(5):1022-32.

Emmrich S, **Henke K**, Hegermann J, Ochs M, Reinhardt D, Klusmann JH. miRNAs can increase the efficiency of ex vivo platelet generation. *Ann Hematol*. 2012 Nov;91(11):1673-84.

**Herbold W**, Maus R, Hahn I, Ding N, Srivastava M, Christman JW, Mack M, Reutershan J, Briles DE, Paton JC, Winter C, Welte T, Maus UA. Importance of CXC chemokine receptor 2 in alveolar neutrophil and exudate macrophage recruitment in response to pneumococcal lung infection. *Infect Immun*. 2010;78(6):2620-30. Epub 2010 Apr 5

Ehlers S, **Herbst C**, Zimmermann M, Scharn N, et al. Granulocyte colony-stimulating factor (G-CSF) treatment of childhood acute myeloid leukemias that overexpress the differentiation-defective G-CSF receptor isoform IV is associated with a higher incidence of relapse. *J Clin Oncol*. 2010 May 20;28(15):2591-7.

Christgen M, Christgen H, **Heil C**, Krech T, Länger F, Kreipe H, Lehmann U. Expression of KAI1/CD82 in distant metastases from estrogen receptor-negative breast cancer. *Cancer Sci*. 2009 Sep;100(9):1767-71.

Klusmann JH, Godinho FJ, **Heitmann K**, Maroz A, Koch ML, Reinhardt D, Orkin SH, Li Z. Developmental stage-specific interplay of GATA1 and IGF signaling in fetal megakaryopoiesis and leukemogenesis. *Genes Dev*. 2010 Aug 1;24(15):1659-72

Stankov MV<sup>1</sup>, El Khatib M<sup>1</sup>, Thakur BK, **Heitmann K**, Panayotova-Dimitrova D, Schoening J, Bourquin JP, Schweitzer N, Leverkus M, Welte K, Reinhardt D, Li Z, Orkin SH, Behrens GMN<sup>1</sup>, Klusmann JH<sup>1</sup>. Histone deacetylase inhibitors induce apoptosis in myeloid leukemia by suppressing autophagy. *Leukemia* 2014;28(3):577-88. <sup>1</sup>contributed equally.

**Herbold W**, Maus R, Hahn I, Ding N, Srivastava M, Christman JW, Mack M, Reutershan J, Briles DE, Paton JC, Winter C, Welte T, Maus UA. Importance of CXC chemokine receptor 2 in alveolar neutrophil and exudate macrophage recruitment in response to pneumococcal lung infection. *Infect Immun*. 2010 Jun;78(6):2620-30.

Winter C, **Herbold W**, Maus R, Länger F, Briles DE, Paton JC, Welte T, Maus UA. Important role for CC chemokine ligand 2-dependent lung mononuclear phagocyte recruitment to inhibit sepsis in mice infected with *Streptococcus pneumoniae*. *J Immunol*. 2009;182(8):4931-7

Leifheit-Nestler M, Grabner A, **Hermann L**, Richter B, Schmitz K, Fischer DC, Yanucil C, Faul C, Haffner D. Vitamin D treatment attenuates cardiac FGF23/FGFR4 signaling and hypertrophy in uremic rats. *Nephrol Dial Transplant* 2017;32:1493-1503

Tossidou I, **Himmelseher E\***, Teng B, Haller H, Schiffer M. SUMOylation determines turnover and localization of nephrin at the plasma membrane. *Kidney Int*. 2014 Dec;86(6):1161-73. (\*joint first authorship)

Altenmüller, E., Baur, V., **Hofmann, A.**, Lim, V. K., & Jabusch, H.-C. (2012). Musician's cramp as manifestation of maladaptive brain plasticity: arguments from instrumental differences. *Annals of the New York Academy of Sciences*, 1252, 259–65.

**Hofmann, A.**, Grossbach, M., Baur, V., Hermsdörfer, J., & Altenmüller, E. (2015). Musician's Dystonia is Highly Task Specific: No Strong Evidence for Everyday Fine Motor Deficits in Patients. *Medical Problems of Performing Artists*, 30(1), 38–46.

Bock O, **Höftmann J**, Theophile K, Hussein K, Wiese B, Schlué J, Kreipe H: Bone morphogenetic proteins are overexpressed in the bone marrow of primary myelofibrosis and are apparently induced by fibrogenic cytokines. *Am J Pathol*. 2008, 172(4): 951-960

Ukena SN \*, **Höpting M\***, Velaga S, Ivanyi P, Grosse J, Baron U, Ganser A, and Franzke A. Isolation strategies of regulatory T cells for clinical trials: Phenotype, function, stability, and expansion capacity. *Experimental Hematology* 2011;39: 1152-1160 \* Ukena SN and Höpting M contributed equally to this work

Velaga S, Ukena SN, **Höpting M**, Ivanyi P, Borchers S, Mischak-Weissing EM, Hamwi I, Buchholz S, Ganser A and Franzke A. Reconstitution and phenotype of Tregs in CMV reactivating patients following allogeneic hematopoietic stem cell transplantation. *Immunological Investigations* 2013;42:18-35

**Hupe MC**, Merseburger AS, Lokeshwar VB, Eggers H, Rott H, Wegener G, Abbas M, Kuczyk MA, Herrmann TR. Age-an independent prognostic factor of clinical outcome in renal malignancies: results of a large study over two decades. *World J Urol*. 2014 Feb;32(1):115-21.

**Janssen O\***, Schaumann F\*, Holz O, Lavae-Mokhtari B, Welker L, Winkler C, Biller H, Krug N, Hohlfeld JM. Low-dose endotoxin inhalation in healthy volunteers - a challenge model for early clinical drug development. *BMC Pulmonary Medicine* 2013.;13:19

\*equal contribution

**Jakobi J**, Bernateck M, Tran AT, Holm L, Volkmann L, Buers D, Karst M, Stuhmann M. Catechol-O-methyltransferase gene polymorphisms are not associated with multisomatoform

disorder in a group of German multisomatoform disorder patients and healthy controls. *Genet Test Mol Biomarkers*. 2010 Jun;14(3):293-7.

**Jörgens G**, Bange FC, Mühlradt PF, Pabst R, Maus UA, Tschernig T. Synthetic lipopeptide MALP-2 inhibits intracellular growth of *Mycobacterium bovis* BCG in alveolar macrophages-preliminary data. *Inflammation*. 2009 Aug;32(4):247-51.

Strotmeier J, Gu S, **Jutzi S**, Mahrhold S, Zhou J, Pich A, Eichner T, Bigalke H, Rummel A, Jin R, Binz T. The biological activity of botulinum neurotoxin type C is dependent upon novel types of ganglioside binding sites. *Mol Microbiol*. 2011 Jul;81(1):143-56.

**Kahlmann D**, Davalos-Misslitz AC, Ohl L, Stanke F, Witte T, Forster R. Genetic variants of chemokine receptor CCR7 in patients with systemic lupus erythematosus, Sjogren's syndrome and systemic sclerosis. *BMC Genet*. 2007;8:33.

Tischer S, **Kaireit T**, Figueiredo C, Hiller O, Maecker-Kolhoff B, Geyeregger R, Immenschuh S, Blasczyk R, Eiz-Vesper B. Establishment of the reversible peptide-major histocompatibility complex (pMHC) class I Histamer technology: tool for visualization and selection of functionally active antigen-specific CD8(+) T lymphocytes. *Int Immunol*. 2012 Sep;24(9):561-72.

Hong HS, Eberhard JM, **Keudel P**, Bollmann BA, Ahmad F, Ballmaier M, Bhatnagar N, Zielinska-Skowronek M, Schmidt RE, Meyer-Olson D. Phenotypically and functionally distinct subsets contribute to the expansion of CD56-/CD16+ natural killer cells in HIV infection. *AIDS*. 2010 Jul 31;24(12):1823-34.

Hong HS, Eberhard JM, **Keudel P**, Bollmann BA, Ballmaier M, Bhatnagar N, Zielinska-Skowronek M, Schmidt RE, Meyer-Olson D. HIV infection is associated with a preferential decline in less-differentiated CD56dim CD16+ NK cells. *J Virol*. 2010 Jan;84(2):1183-8.

Hong HS, Ahmad F, Eberhard JM, Bhatnagar N, Bollmann BA, **Keudel P**, Ballmaier M, Zielinska-Skowronek M, Schmidt RE, Meyer-Olson D. Loss of CCR7 expression on CD56(bright) NK cells is associated with a CD56(dim)CD16+ NK cell-like phenotype and correlates with HIV viral load. *PLoS One*. 2012;7(9):e44820.

Iacob R; Rüdrieh U; Rothe M; **Kirsch S**; **Maasoumy B**; Narain N; Verfaillie CM; Sancho-Bru P; Iken M; Popescu I; Schambach A; Manns MP; Bock M. Induction of a mature hepatocyte phenotype in adult liver derived progenitor cells by ectopic expression of transcription factors. *Stem Cell Res.* 2011;6(3):251-61

**Kleiner S**, Rüdrieh U, Gehring M, Loser K, Eiz-Vesper B, Noubissi Nzeteu GA, Patsinakidis N, Meyer NH, Gibbs BF, Raap U. Human basophils release the anti-inflammatory cytokine IL-10 following stimulation with  $\alpha$ -melanocyte-stimulating hormone. *J Allergy Clin Immunol*. 2021 Jan 15:S0091-6749(21)00009-9. Epub ahead of print. PMID: 33460671.

**Kleiner S**, Braunstahl GJ, Rüdrieh U, Gehring M, Eiz-Vesper B, Luger TA, Steelant B, Seys SF, Kapp A, Böhm M, Hellings PW, Raap U. Regulation of melanocortin 1 receptor in allergic rhinitis in vitro and in vivo. *Clin Exp Allergy*. 2016 Aug;46(8):1066-74.

Rabenhorst A, Christopeit B, Leja S, Gerbaulet A, **Kleiner S**, Förster A, Raap U, Wickenhauser C, Hartmann K. Serum levels of bone cytokines are increased in indolent

systemic mastocytosis associated with osteopenia or osteoporosis. *J Allergy Clin Immunol.* 2013 Jul 30. doi:pii: S0091-6749(13)00987-1.

Schade J, Stephan M, Schmiedl A, Wagner L, Niestroj AJ, Demuth HU, Frerker N, **Klemann C**, Raber KA, Pabst R, von Hörsten S. Regulation of expression and function of dipeptidyl peptidase 4 (DP4), DP8/9, and DP10 in allergic responses of the lung in rats. *J Histochem Cytochem.* 2008;56(2):147-55.

**Klemann C**, Schade J, Pabst R, Leitner S, Stiller J, von Hörsten S, Stephan M. CD26/dipeptidyl peptidase 4-deficiency alters thymic emigration patterns and leukocyte subsets in F344-rats age-dependently. *Clinical and Experimental Immunology* 2009; 155(2):357-65.

**Klintworth A**, Nolden T, Westhaus S, Rohrman K, David S, Manns MP, Finke S, Ciesek S, von Hahn T. Cationic amphiphilic drugs enhance entry of lentiviral particles pseudotyped with rabies virus glycoprotein into non-neuronal cells. *Antiviral Res.* 2015 Nov 2. pii: S0166-3542(15)30019-X. doi:10.1016/j.antiviral.2015.10.017. [Epub ahead of print]

Sogkas G, **Klose K**, Baerlecken N, Schweikhard E, Matthias T, Kniesch K, Schmidt RE, Witte T. CD74 is a T cell antigen in spondyloarthritis. *Clin Exp Rheumatol.* 2019 May 22. [Epub ahead of print]

**Knoll AB**, **Brockmeyer T**, Chevalier R, Zscheppang K, Nielsen HC, Dammann CE. Adult rat bone marrow-derived stem cells promote late fetal type II cell differentiation in a co-culture model. *The Open Respiratory Medicine Journal* 2013; 7:33-40

**Kreimeyer I**, **Euler F**, Marckscheffel A, Tatge H, Pich A, Olling A, Schwarz J, Just I, Gerhard R. Autoproteolytic cleavage mediates cytotoxicity of *Clostridium difficile* toxin A. *Naunyn Schmiedebergs Arch Pharmacol.* 2011 Mar;383(3):253-62.

Olling A, Hüls C, Goy S, Müller M, Krooss S, **Rudolf I** (née Kreimeyer), Tatge H, Gerhard R. The combined repetitive oligopeptides of *clostridium difficile* toxin A counteract premature cleavage of the glucosyl-transferase domain by stabilizing protein conformation. *Toxins (Basel).* 2014 Jul 22;6(7):2162-76.

Leifheit-Nestler M\*, **Kucka J\***, Yoshizawa E, Behets G, D'Haese P, Bergen C, Meier M, Fischer DC, Haffner D. Comparison of calcimimetic R568 and calcitriol in mineral homeostasis in the Hyp mouse, a murine homolog of X-linked hyperphosphatemia. *Bone* 2017;103:224-232. \*equal contribution (nee Julia Pfau)

**Kunsleben N**, Rüdrieh U, Gehring M, Novak N, Kapp A, Raap U. IL-31 Induces Chemotaxis, Calcium Mobilization, Release of Reactive Oxygen Species, and CCL26 in Eosinophils, Which Are Capable to Release IL-31. *J Invest Dermatol.* 2015 Mar 19. doi: 10.1038/jid.2015.106. [Epub ahead of print]

**Labenski H**, Hedtfeld S, Becker T, Tümmler B, Stanke F. Initial interrogation, confirmation and fine mapping of modifying genes: STAT3, IL1B and IFNGR1 determine cystic fibrosis disease manifestation. *Eur J Hum Genet.* 2011 Dec;19(12):1281-8.

Amrute-Nayak, M.\*, **Lambeck, K.\***, Radocaj, A., Huhnt, H., Scholz, T., Hahn, N., Tsiavaliaris, G., Walter, W., Brenner, B. (2014). "ATP turnover by individual myosin



molecules hints at two conformers of the myosin active site." PNAS 111(7): 2536-41. (\* contributed equally)

**Langemeier J**, Schrom EM, Rabner A, Radtke M, Zychlinski D, Saborowski A, Bohn G, Mandel-Gutfreund Y, Bodem J, Klein C, Bohne J. A complex immunodeficiency is based on U1 snRNP-mediated poly(A) site suppression. EMBO J. 2012;31(20):4035-44.

**Langemeier J**, Radtke M, Bohne J. U1 snRNP-mediated poly(A) site suppression: beneficial and deleterious for mRNA fate. RNA Biol. 2013 Feb;10(2):180-4. doi: 10.4161/rna.23314. Epub 2013 Jan 16.

**Lautenbach A**, Budde A, Wrann CD, Teichmann B, Vieten G, Karl T, Nave H. Obesity and the associated mediators leptin, estrogen and IGF-I enhance the cell proliferation and early tumorigenesis of breast cancer cells. Nutr Cancer. 2009;61(4):484-91

**Lautenbach A**, Wrann CD, Jacobs R, Müller G, Brabant G, Nave H. Altered Phenotype of NK Cells From Obese Rats Can Be Normalized by Transfer Into Lean Animals. Obesity (Silver Spring). 2009; 17(10):1848-55.

Wrann CD, Ehmer U, **Lautenbach A**, Kuhlmann S, Nave H. Obesity and NK cells affect the expression of the long form of the leptin receptor Ob-Rb in liver of F344 rats. Exp Toxicol Pathol. 2010;62(1):1-8.

**Lautenbach A**, Breitmeier D, Kuhlmann S, Nave H. Human obesity reduces the number of hepatic leptin receptor (ob-R) expressing NK cells. Endocr Res. 2011;36(4):158-66.

Stadler J, **Le TP**, Haas P, Nave H. Distinct effects of NPY13-36, a specific NPY Y2 agonist, in a model of rodent endotoxemia on leukocyte subsets and cytokine levels. Ann Anat. 2011 Dec 20;193(6):486-93.

Lee K, Gu S, Jin L, **Le TTN**, Cheng LW, Strotmeier J, Krueel AM, Yao G, Perry K, Rummel A, Jin R. Structure of a bimodular botulinum neurotoxin complex provides insights into its oral toxicity. PLOS Pathogens, in press (PPATHOGENS-D-13-01100)

**Lindenberg M**, Solmaz G, Puttur F, Sparwasser T. Mouse cytomegalovirus infection overrules T regulatory cell suppression on natural killer cells. Virol J. 2014 Aug 9;11:145.

Puttur F, Arnold-Schrauf C, Lahl K, Solmaz G, **Lindenberg M**, Mayer CT, Gohmert M, Swallow M, van Helt C, Schmitt H, Nitschke L, Lambrecht BN, Lang R, Messerle M, Sparwasser T. Absence of Siglec-H in MCMV infection elevates interferon alpha production but does not enhance viral clearance. PLoS Pathog. 2013;9(9):e1003648.

**Luecke N**, Templin C, Muetzelburg MV, Neumann D, Just I, Pich A. Secreted proteome of the murine multipotent hematopoietic progenitor cell line DKmix. Rapid Commun Mass Spectrom. 2010 Mar 15;24(5):561-70.

Broere N, Chen M, Cinar A, Singh AK, Hillesheim J, Riederer B, **Lünnemann M**, Rottinghaus I, Krabbenhöft A, Engelhardt R, Rausch B, Weinman EJ, Donowitz M, Hubbard A, Kocher O, de Jonge HR, Hogema BM, Seidler U. Defective jejunal and colonic salt absorption and altered Na<sup>(+)</sup>/H<sup>(+)</sup> exchanger 3 (NHE3) activity in NHE regulatory factor 1 (NHERF1) adaptor protein-deficient mice. Pflugers Arch. 2009 Mar;457(5):1079-91.

Niebuhr M, **Lutat C**, Sigel S, Werfel T. Impaired TLR-2 expression and TLR-2 mediated cytokine secretion in macrophages from patients with atopic dermatitis. *Allergy* 2009; 64:1580-7.

Jonigk D, Theophile K, Hussein K, Bock O, Lehmann U, Bockmeyer CL, Gottlieb J, Fischer S, Simon A, Welte T, **Maegel L**, Kreipe H, Laenger F. Obliterative airway remodelling in transplanted and non-transplanted lungs. *Virchows Arch.* 2010 Sep;457(3):369-80.

Bockmeyer CL, **Maegel L**, Janciauskiene S, **Rische J**, Lehmann U, Maus UA, Nickel N, Haverich A, Hoepfer MM, Golpon HA, Kreipe H, Laenger F, Jonigk D. Plexiform vasculopathy of severe pulmonary arterial hypertension and microRNA expression. *J Heart Lung Transplant.* 2012 Jul;31(7):764-72. Epub 2012 Apr 24.

Jonigk D, Golpon H, Bockmeyer CL, **Maegel L**, Hoepfer MM, Gottlieb J, Nickel N, Hussein K, Maus U, Lehmann U, Janciauskiene S, Welte T, Haverich A, **Rische J**, Kreipe H, Laenger F. Plexiform lesions in pulmonary arterial hypertension composition, architecture, and microenvironment. *Am J Pathol.* 2011 Jul;179(1):167-79. Epub 2011 May 11.

Illsinger S, Janzen N, Sander S, Schmidt KH, Bednarczyk J, **Mallunat L**, Bode J, Hageböling F, Hoy L, Lücke T, Hass R, Das AM. Preeclampsia and HELLP syndrome: impaired mitochondrial function in umbilical endothelial cells. *Reprod Sci.* 2010 Mar;17(3):219-26.

Niebuhr M, **Mamerow D**, Heratizadeh A, Satzger I, Werfel T.  $\alpha$ -toxin induces a higher T-cell proliferation and Interleukin (IL)-31 in atopic dermatitis. *International Archives of Allergy and Immunology* 2011; 156: 412-415.

Satzger I, **Mattern A**, Kuettler U, Weinspach D, Voelker B, Kapp A, Gutzmer R. MicroRNA-15b represents an independent prognostic parameter and is correlated with tumor cell proliferation and apoptosis in malignant melanoma. *Int J Cancer.* 2010;126(11):2553-62.

Omnus DJ, **Mehrtens S**, Ritter B, Resch K, Yamada M, Frank R, Nourbakhsh M, Rebol MR. JKTBP1 Is Involved in Stabilization and IRES-Dependent Translation of NRF mRNAs by Binding to 5' and 3' Untranslated Regions. *J Mol Biol.* 2011 Apr 8;407(4):492-504.

Srivastava M, **Meinders A**, Steinwede K, Maus R, Lucke N, Buhling F, Ehlers S, Welte T, Maus UA. Mediator responses of alveolar macrophages and kinetics of mononuclear phagocyte subset recruitment during acute primary and secondary mycobacterial infections in the lungs of mice. *Cell Microbiol.* 2007; 9(3):738-52.

**Meyer D**, Seth S, Albrecht J, Maier MK, du Pasquier L, Ravens I, Dreyer L, Burger R, Gramatzki M, Schwinzer R, Kremmer E, Foerster R, Bernhardt G. CD96 interaction with CD155 via its first Ig-like domain is modulated by alternative splicing or mutations in distal Ig-like domains. *J Biol Chem.* 2009 Jan 23;284(4):2235-44.

**Michael S**, Keubler LM, Smoczek A, Meier M, Gunzer F, Pöhlmann C, Krause-Buchholz U, Hedrich HJ, Bleich A. Quantitative phenotyping of inflammatory bowel disease in the IL-10-deficient mouse by use of noninvasive magnetic resonance imaging. *Inflamm Bowel Dis.* 2013 Jan;19(1):185-93.

**Muhr P**, Renne J, Schaefer V, Werfel T, Wittmann M. Primary human keratinocytes efficiently induce IL-1-dependent IL-17 in CCR6<sup>+</sup> T cells. *Exp Dermatol*. 2010 Dec;19(12):1105-7.

**Müller C**, Tufa DM, Chatterjee D, Mühradt PF, Schmidt RE, Jacobs R. The TLR-2/TLR-6 agonist macrophage-activating lipopeptide-2 augments human NK cell cytotoxicity when PGE2 production by monocytes is inhibited by a COX-2 blocker. *Cancer Immunol Immunother*. 2015 Jun 3. [Epub ahead of print]

**Muller-Deile J**, Worthmann K, Saleem M, Tossidou I, Haller H, Schiffer M: The balance of autocrine VEGF-A and VEGF-C determines podocyte survival. *Am J Physiol Renal Physiol* 2009; 297: F1656-1667

**Müller S**, Poehnert D, Müller JA, Scheumann GW, Koch M, Lück R. Regulatory T cells in peripheral blood, lymph node, and thyroid tissue in patients with medullary thyroid carcinoma. *World J Surg*. 2010 Jul;34(7):1481-7

**Mutig N**, Geers-Knoerr C, Piep B, Pahuja A, Vogt PM, Brenner B, Niederbichler AD, Kraft T. Lipoteichoic acid from *Staphylococcus aureus* directly affects cardiomyocyte contractility and calcium transients. *Mol Immunol*. 2013 Aug 6;56(4):720-728.

**Negm AA**, Schott A, Vonberg RP, Weismueller TJ, Schneider AS, Kubicka S, Strassburg CP, Manns MP, Suerbaum S, Wedemeyer J, Lankisch TO. Routine bile collection for microbiological analysis during cholangiography and its impact on the management of cholangitis. *Gastrointest Endosc*. 2010 Aug;72(2):284-91.

Lankisch TO, Metzger J, **Negm AA**, Vosskuhl K, Schiffer E, Siwy J, Weismüller TJ, Schneider AS, Thedieck K, Baumeister R, Zürgbig P, Weissinger EM, Manns MP, Mischak H, Wedemeyer J. Bile proteomic profiles differentiate cholangiocarcinoma from primary sclerosing cholangitis and choledocholithiasis. *Hepatology*. 2011 Mar;53(3):875-84.

Weismüller TJ, **Negm AA**, Becker T, Barg-Hock H, Klempnauer J, Manns MP, Strassburg CP. The introduction of MELD-based organ allocation impacts 3-month survival after liver transplantation by influencing pretransplant patient characteristics. *Transpl Int*. 2009 Oct;22(10):970-8.

Lorenzen JM, **Nickel N**, Krämer R, Golpon H, Westerkamp V, Olsson KM, Haller H, Hoepfer MM. Osteopontin in patients with idiopathic pulmonary hypertension. *Chest*. 2011 May;139(5):1010-7.

Kümpers P, **Nickel N**, Lukasz A, Golpon H, Westerkamp V, Olsson KM, Jonigk D, Maegel L, Bockmeyer CL, David S, Hoepfer MM. Circulating angiopoietins in idiopathic pulmonary arterial hypertension. *Eur Heart J*. 2010 Sep;31(18):2291-300.

Hoepfer MM, Gall H, Seyfarth HJ, Halank M, Ghofrani HA, Winkler J, Golpon H, Olsson KM, **Nickel N**, Opitz C, Ewert R. Long-term outcome with intravenous iloprost in pulmonary arterial hypertension. *Eur Respir J*. 2009 Jul;34(1):132-7.

**Nickel N**, Kempf T, Tapken H, Tongers J, Laenger F, Lehmann U, Golpon H, Olsson K, Wilkins MR, Gibbs JS, Hoepfer MM, Wollert KC. Growth differentiation factor-15 in

idiopathic pulmonary arterial hypertension. *Am J Respir Crit Care Med.* 2008 Sep 1;178(5):534-41.

*Zudem wurde diese Arbeit mit dem "pulmonary arterial hypertension award 2008" auf dem ERS (european respiratory society) ausgezeichnet.*

**Nottrott S**, Schoentaube J, Genth H, Just I, Gerhard R. *Clostridium difficile* toxin A-induced apoptosis is p53-independent but depends on glucosylation of Rho GTPases. *Apoptosis* 2007; 12(8):1443-53

Gerhard R, **Nottrott S**, Schoentaube J, Tatge H, Olling A, Just I. Glucosylation of Rho GTPases by *Clostridium difficile* toxin A triggers apoptosis in intestinal epithelial cells. *J Med Microbiol.* 2008; 57(Pt 6):765-70

**Peest U**, Sensken SC, Andréani P, Hänel P, Van Veldhoven PP, Gräler MH. S1P-lyase independent clearance of extracellular sphingosine 1-phosphate after dephosphorylation and cellular uptake. *J Cell Biochem.* 2008 Jun 1;104(3):756-7

Bode C, Sensken SC, **Peest U**, Beutel G, Thol F, Levkau B, Li Z, Bittman R, Huang T, Tölle M, van der Giet M, Gräler MH. Erythrocytes serve as a reservoir for cellular and extracellular sphingosine 1-phosphate. *J Cell Biochem.* 2010;109(6):1232-43.

Sensken SC, Bode C, Nagarajan M, **Peest U**, Pabst O, Gräler MH. Redistribution of sphingosine 1-phosphate by sphingosine kinase 2 contributes to lymphopenia. *J Immunol.* 2010;184(8):4133-42.

**Penkert J**, Schlegelberger B, Steinemann D, Gadzicki D. No evidence for breast cancer susceptibility associated with variants of BRD7, a component of p53 and BRCA1 pathways. *Fam Cancer.* 2012 Dec;11(4):601-6.

**Poffers M**, **Bühne N**, Herzog C, Thorenz A, Chen R, Güler F, Hage A, Leffler A, Echtermeyer F. Sodium Channel Nav1.3 Is Expressed by Polymorphonuclear Neutrophils during Mouse Heart and Kidney Ischemia In Vivo and Regulates Adhesion, Transmigration, and Chemotaxis of Human and Mouse Neutrophils In Vitro. *Anesthesiology.* 2018 Jun;128(6):1151-1166.

**Raap M**, Rüdrieh U, Ständer S, Gehring M, Kapp A, Raap U. Substance P activates human eosinophils. *Exp Dermatol.* 2015 Apr 11. doi: 10.1111/exd.12717. [Epub ahead of print]

Markel D, Lam E, Harste G, Darr S, **Ramke M**, Heim A. Type dependent patterns of human adenovirus persistence in human T-lymphocyte cell lines. *J Med Virol.* 2014 May;86(5):785-94.

**Ramke M**, Lam E, Meyer M, Knipper A, Heim A. Porcine corneal cell culture models for studying epidemic keratoconjunctivitis. *Mol Vis.* 2013;19:614-22.

Lam E, **Ramke M**, Groos S, Warnecke G, Heim A. A differentiated porcine bronchial epithelial cell culture model for studying human adenovirus tropism and virulence. *J Virol Methods.* 2011 Dec;178(1-2):117-23.

**Rickmann M**, Macke L, Sundarasetty BS, Stamer K, Figueiredo C, Blasczyk R, Heuser M, Krauter J, Ganser A, Stripecke R. Monitoring dendritic cell and cytokine biomarkers during

remission prior to relapse in patients with FLT3-ITD acute myeloid leukemia. *Ann Hematol.* 2013 Aug;92(8):1079-90.

Sundarasetty BS, Singh VK, Salguero G, Geffers R, **Rickmann M**, Macke L, Borchers S, Figueiredo C, Schambach A, Gullberg U, Provasi E, Bonini C, Ganser A, Woelfel T, Stripecke R. Lentivirus-induced dendritic cells for immunization against high-risk WT1(+) acute myeloid leukemia. *Hum Gene Ther.* 2013 Feb;24(2):220-37.

Koczulla AR, Jonigk D, Wolf T, Herr C, Noeske S, Klepetko W, Vogelmeier C, von Neuhoff N, **Rische J**, Wrenger S, Golpon H, Voswinckel R, Luisetti M, Ferrarotti I, Welte T, Janciauskiene S. Krüppel-like zinc finger proteins in end-stage COPD lungs with and without severe alpha1-antitrypsin deficiency. *Orphanet J Rare Dis.* 2012 May 23;7:29.

Pilatz A, Altinkilic B, Rusz A, Izykowski N, Traenkenschuh W, **Rische J**, Lehmann U, Herbst C, Maegel L, Becker J, Weidner W, Jonigk D. Role of human papillomaviruses in persistent and glucocorticoid-resistant juvenile phimosis. *J Eur Acad Dermatol Venereol.* 2013 Jun;27(6):716-21.

Jonigk D, Laenger F, Maegel L, Izykowski N, **Rische J**, Tiede C, Klein C, Maecker-Kolhoff B, Kreipe H, Hussein K. Molecular and clinicopathological analysis of Epstein-Barr virus-associated posttransplant smooth muscle tumors. *Am J Transplant.* 2012 Jul;12(7):1908-17.

Nickel N, Jonigk D, Kempf T, Bockmeyer CL, **Maegel L**, **Rische J**, Laenger F, Lehmann U, Sauer C, Greer M, Welte T, Hoepfer MM, Golpon HA. GDF-15 is abundantly expressed in plexiform lesions in patients with pulmonary arterial hypertension and affects proliferation and apoptosis of pulmonary endothelial cells. *Respir Res.* 2011 May 6;12:62.

Fiaturi N, **Ritzkat A**, Dammann CE, Castellot JJ, Nielsen HC. Dissociated presenilin-1 and TACE processing of ErbB4 in lung alveolar type II cell differentiation. *Biochim Biophys Acta.* 2014 Jan 24;1843(4):797-805.

Rojas SV, Kensah G, **Rotaermel A**, Baraki H, Kutschka I, Zweigerdt R, Martin U, Haverich A, Gruh I, Martens A. Transplantation of purified iPSC-derived cardiomyocytes in myocardial infarction. *PLoS One.* 2017 May 11;12(5):e0173222.

**Rotsch J**, Rohrbeck A, May M, Kolbe T, Hagemann S, Schelle I, Just I, Genth H, Huelsenbeck SC. Inhibition of macrophage migration by *C. botulinum* exoenzyme C3. *Naunyn Schmiedebergs Arch Pharmacol.* 2012 Sep;385(9):883-90.

**Rudolf, D**, N. Michaylov, M. van der Linden, L. Hoy, K. P. Klugman, T. Welte, and M. W. Pletz. International Pneumococcal Clones Match or Exceed the Fitness of Other Strains despite the Accumulation of Antibiotic Resistance. *Antimicrob Agents Chemother* 55:4915-4917

Gu S, **Rumpel S**, Zhou J, Strotmeier J, Bigalke H, Perry K, Shoemaker CB, Rummel A, Jin R. Botulinum neurotoxin is shielded by NTNHA in an interlocked complex. *Science.* 2012 Feb 24;335(6071):977-81.

Salguero G, Schuett H, Jagielska J, **Schley R**, Tallone E, Luchtefeld M, Drexler H, Müller W, Grote K, Schieffer B. Hepatocyte gp130 Deficiency Reduces Vascular Remodeling After Carotid Artery Ligation. *Hypertension.* 2009 Nov;54(5):1035-42.

**Sandmann, L.**, Wilson M, Back D, Wedemeyer H, Manns MP, Steinmann E, Pietschmann T, von Hahn T, Ciesek S. Anti-retroviral drugs do not facilitate hepatitis C virus (HCV) infection in vitro. *Antiviral Res.* 2012. 96(1): p. 51-8

**Schäfer-Nolte F**, Hennecke K, Reimers K, Schnabel R, Allmeling C, Vogt PM, Kuhbier JW, Mirastschijski U. Biomechanics and biocompatibility of woven spider silk meshes during remodeling in a rodent fascia replacement model. *Ann Surg.* 2014 Apr;259(4):781-92.

Zwadlo C\*, **Schmidtman E\***, Szaroszyk M, Kattih B, Froese N, Hinz H, Schmitto JD, Widder J, Batkai S, Bähre H, Kaefer V, Thum T, Bauersachs J, Heineke J. Anti-Androgenic Therapy with Finasteride Attenuates Cardiac Hypertrophy and Left Ventricular Dysfunction. *Circulation.* 2015 Jan 28. pii: CIRCULATIONAHA.114.012066. [Epub ahead of print] (\*equal contribution)

Strauß S, Reimers K, Allmeling C, Kuhbier JW, Radtke C, **Schäfer-Nolte F**, **Wendt H**, Vogt PM. Spider Silk - a Versatile Biomaterial for Tissue Engineering and Medical Applications. *Biomed Tech (Berl).* 2013 Sep 7. pii:/j/bmte.2013.58.issue-s1-C/bmt-2013-4068/bmt-2013-4068.xml.

**Schreiber O**, Steinwede K, Ding N, Srivastava M, Maus R, Länger F, Prokein J, Ehlers S, Welte T, Gunn MD, Maus UA. Mice that overexpress CC chemokine ligand 2 in their lungs show increased protective immunity to infection with *Mycobacterium bovis* bacille Calmette-Guérin. *J Infect Dis.* 2008;198(7):1044-54.

Höltje M, **Schulze S**, Strotmeier J, Mahrhold S, Richter K, Binz T, Bigalke H, Ahnert-Hilger G, Rummel A. Exchanging the minimal cell binding fragments of tetanus neurotoxin in botulinum neurotoxin A and B impacts their toxicity at the neuromuscular junction and central neurons. *Toxicon* 2013; 75; 108-121

**Schultze-Florey CR**, Martínez-Maza O, Magpantay L, Breen EC, Irwin MR, Gündel H, O'Connor MF. When grief makes you sick: Bereavement induced systemic inflammation is a question of genotype. *Brain Behav Immun.* 2012;26(7):1066-71.

O'Connor MF, **Schultze-Florey CR**, Irwin MR, Arevalo JM, Cole SW. Divergent gene expression responses to complicated grief and non-complicated grief. *Brain Behav Immun.* 2014 Mar;37:78-83.

**Seifert F**, Eisenblätter R, Beckmann J, Schürmann P, Hanel P, Jentschke M, Böhmer G, Strauß HG, Hirchenhain C, Schmidmayr M, Müller F, Fasching P, Luyten A, Häfner N, Dürst M, Runnebaum IB, Hillemanns P, Dörk T, Ramachandran D. Association of two genomic variants with HPV type-specific risk of cervical cancer. *Tumour Virus Res.* 2023 Jul 25;16:200269.

Tossidou I\*, **Starker G\***, Kruger J, Meier M, Leitges M, Haller H, Schiffer M. PKC-alpha modulates TGF-beta signaling and impairs podocyte survival. *Cell Physiol Biochem.* 2009; 24(5-6):627-34. (\*equal contribution)

**Sukdolak C**, Tischer S, **Diels D**, Figueiredo C, Goudeva L, Heuft HG, Verboom M, Immenschuh S, Heim A, Borchers S, Mischak-Weissinger E, Blasczyk R, Maecker-Kolhoff B, Eiz-Vesper B. CMV-, EBV- and ADV-Specific T Cell Immunity: Screening and

Monitoring of Potential Third-Party Donors to Improve Post-Transplantation Outcome. Biol Blood Marrow Transplant. 2013 Oct;19(10):1480-92.

Tischer S, **Dieks D**, **Sukdolak C**, Bunse C, Figueiredo C, Immenschuh S, Borchers S, Stripecke R, Maecker-Kolhoff B, Blasczyk R, Eiz-Vesper B. Evaluation of suitable target antigens and immunoassays for high-accuracy immune monitoring of cytomegalovirus and Epstein-Barr virus-specific T cells as targets of interest in immunotherapeutic approaches. J Immunol Methods. 2014 Jun;408:101-13.

Schmiedl A, Krainski J, **Schwichtenhövel F**, Schade J, Klemann C, Raber KA, Zscheppang K, Beekmann T, Acevedo C, Glaab T, Wedekind D, Pabst R, von Hörsten S, Stephan M. Reduced airway inflammation in CD26/DPP4-deficient F344 rats is associated with altered recruitment patterns of regulatory T cells and expression of pulmonary surfactant proteins. Clin Exp Allergy. 2010 Dec;40(12):1794-808.

Melk A, Tegtbur U, Hilfiker-Kleiner D, Eberhard J, Saretzki G, Eulert C, Kerling A, Nelius AK, Hömme M, **Strunk D**, Berliner D, Röntgen P, Kück M, Bauersachs J, Hilfiker A, Haverich A, Bara C, Stiesch M. Improvement of biological age by physical activity. Int J Cardiol. 2014 Oct 20;176(3):1187-9

Derks M\*, **Sturm T\***, Haverich A, Hilfiker A. Isolation and chondrogenic differentiation of porcine perichondrial progenitor cells for the purpose of cartilage tissue engineering. Cells Tissues Organs. 2013;198(3):179-89. (\*equal contribution)

Winter C, **Taut K**, Länger F, Mack M, Briles DE, Paton JC, Maus R, Srivastava M, Welte T, Maus UA. FMS-like tyrosine kinase 3 ligand aggravates the lung inflammatory response to *Streptococcus pneumoniae* infection in mice: role of dendritic cells. J Immunol. 2007;179(5):3099-108

**Taut K**, Winter C, Briles DE, Paton JC, Christman JW, Maus R, Baumann R, Welte T, Maus UA. Macrophage Turnover Kinetics in the Lungs of Mice Infected with *Streptococcus pneumoniae*. Am J Respir Cell Mol Biol. 2008;38(1):105-13.

Winter C, **Taut K**, Srivastava M, Länger F, Mack M, Briles DE, Paton JC, Maus R, Welte T, Gunn MD, Maus UA. Lung-specific overexpression of CC chemokine ligand (CCL) 2 enhances the host defense to *Streptococcus pneumoniae* infection in mice: role of the CCL2-CCR2 axis. J Immunol. 2007;178(9):5828-38.

Steinwede K, **Tempelhof O**, Bolte K, Maus R, Bohling J, Ueberberg B, Länger F, Christman JW, Paton JC, Ask K, Maharaj S, Kolb M, Gauldie J, Welte T, Maus UA. Local delivery of GM-CSF protects mice from lethal pneumococcal pneumonia. J Immunol. 2011 Nov 15;187(10):5346-56.

Hahn A, **Thiessen N**, Pabst R, Buettner M, Bode U. Mesenteric lymph nodes are not required for an intestinal immunoglobulin A response to oral cholera toxin. Immunology. 2010 Mar;129(3):427-36.

**Thöne F**, Schwanhäusser B, Becker D, Ballmaier M, Bumann D. FACS-isolation of Salmonella-infected cells with defined bacterial load from mouse spleen. J Microbiol Methods. 2007;71(3):220-4.

**Veldink H**, Faulhaber-Walter R, Park JK, Martens-Lobenhoffer J, Bode-Böger S, Schuett H, Haghikia A, Hilfiker-Kleiner D, Kielstein JT. Effects of chronic SDMA infusion on glomerular filtration rate, blood pressure, myocardial function and renal histology in C57BL6/J mice. *Nephrol Dial Transplant*. 2013 Jun;28(6):1434-9.

Kielstein JT, **Veldink H**, Martens-Lobenhoffer J, Haller H, Perthel R, Lovric S, Lichtinghagen R, Kliem V, Bode-Böger SM. Unilateral nephrectomy causes an abrupt increase in inflammatory mediators and a simultaneous decrease in plasma ADMA: a study in living kidney donors. *Am J Physiol Renal Physiol*. 2011 Nov;301(5):F1042-6.

Kielstein JT, **Veldink H**, Martens-Lobenhoffer J, Haller H, Burg M, Lorenzen JM, Lichtinghagen R, Bode-Böger SM, Kliem V. SDMA is an early marker of change in GFR after living-related kidney donation. *Nephrol Dial Transplant*. 2011 Jan;26(1):324-8.

Lorenzen J, Krämer R, Kliem V, Bode-Boeger SM, **Veldink H**, Haller H, Fliser D, Kielstein JT. Circulating levels of osteopontin are closely related to glomerular filtration rate and cardiovascular risk markers in patients with chronic kidney disease. *Eur J Clin Invest*. 2010 Apr;40(4):294-300.

Kielstein JT, Fliser D, **Veldink H**. Asymmetric dimethylarginine and symmetric dimethylarginine: axis of evil or useful alliance? *Semin Dial*. 2009 Jul-Aug;22(4):346-50.

Strotmeier J, Lee K, **Völker AK**, Mahrhold S, Zong Y, Zeiser J, Zhou J, Pich A, Bigalke H, Binz T, Rummel A, Jin R. Botulinum neurotoxin serotype D attacks neurons via two carbohydrate-binding sites in a ganglioside-dependent manner. *Biochem J*. 2010 Oct 15;431(2):207-16

**Volkman I**, Kumarswamy R, Pfaff N, Fiedler J, Dangwal S, Holzmann A, Batkai S, Geffers R, Lothar A, Hein L, Thum T. MicroRNA-mediated epigenetic silencing of sirtuin1 contributes to impaired angiogenic responses. *Circ Res*. 2013 Sep 27;113(8):997-1003.

Kumarswamy R, Lyon AR, **Volkman I**, Mills AM, Bretthauer J, Pahuja A, Geers-Knörr C, Kraft T, Hajjar RJ, Macleod KT, Harding SE, Thum T. SERCA2a gene therapy restores microRNA-1 expression in heart failure via an Akt/FoxO3A-dependent pathway. *Eur Heart J*. 2012 May;33(9):1067-75.

Kumarswamy R, **Volkman I**, Jazbutyte V, Dangwal S, Park DH, Thum T. Transforming growth factor- $\beta$ -induced endothelial-to-mesenchymal transition is partly mediated by microRNA-21. *Arterioscler Thromb Vasc Biol*. 2012 Feb;32(2):361-9.

**Voth EM**, Claes L, Georgiadou E, Selle J, Trotzke P, Brand M, de Zwaan M, Müller A. Reactive and regulative temperament in patients with compulsive buying and non-clinical controls measured by self-report and performance-based tasks. *Compr Psychiatry*. 2014 Oct;55(7):1505-12.

Müller A, Claes L, Georgiadou E, Möllenkamp M, **Voth EM**, Faber RJ, Mitchell JE, de Zwaan M. Is compulsive buying related to materialism, depression or temperament? Findings from a sample of treatment-seeking patients with CB. *Psychiatry Res*. 2014 Apr 30;216(1):103-7.



**Wachstein J**, Tischer S, Figueiredo C, Limbourg A, Falk C, Immenschuh S, Blasczyk R, Eiz-Vesper B. HSP70 enhances immunosuppressive function of CD4(+)CD25(+)FoxP3(+) T regulatory cells and cytotoxicity in CD4(+)CD25(-) T cells. *PLoS One*. 2012;7(12):e51747.

**Wagner M**, Richter B, **Böckmann I**, **Piepert C**, Vogt I, Foinquinos A, Zimmer K, Thum T, Meier M, Müller OJ, Haffner D, Leifheit-Nestler M. Cardiac overexpression of FGF23 does not induce a cardiac phenotype in unchallenged mice. Submitted to *J Am Soc Nephrol* 08.11.2018

Leifheit-Nestler M, **Wagner MA**, Richter B, **Piepert C**, **Eitner F**, **Boeckmann I**, Vogt I, Grund A, Hille S, Foinquinos A, Zimmer K, Thum T, Müller OJ, Haffner D. Cardiac FGF23 excess does not induce left ventricular hypertrophy in healthy mice. *Front Cell Dev Biol* 2021;9:745892

Montag J, Syring M, Rose J, **Weber AL**, **Ernstberger P**, Mayer AK, Becker E, Keyser B, Dos Remedios C, Perrot A, van der Velden J, Francino A, Navarro-Lopez F, Ho CY, Brenner B, Kraft T. Intrinsic MYH7 expression regulation contributes to tissue level allelic imbalance in hypertrophic cardiomyopathy. *J Muscle Res Cell Motil*. 2017 Aug;38(3-4):291-302.

Winkler C, Hüper K, **Wedekind AC**, Rochlitzer S, Hartwig C, Müller M, Braun A, Krug N, Hohlfeld JM, Erpenbeck VJ. Surfactant protein D modulates pulmonary clearance of pollen starch granules. *Exp Lung Res*. 2010 Nov;36(9):522-30.

Richter B, Kapanadze T, **Weingärtner N**, **Walter S**, Vogt I, Grund A, Schmitz J, Bräsen JH, Limbourg FP, Haffner D, Leifheit-Nestler M. High phosphate-induced progressive proximal tubular injury is associated with the activation of Stat3/Kim-1 signaling pathway and macrophage recruitment. *FASEB J* 2022;36:e22407

**Wendt H**, Hillmer A, Reimers K, Kuhbier JW, **Schäfer-Nolte F**, Allmeling C, Kasper C, Vogt PM. Artificial skin - culturing of different skin cell lines for generating an artificial skin substitute on cross-weaved spider silk fibres. *PLoS One*. 2011;6(7):e21833.

Cornberg M, **Wiegand SB**. Importance of IP-10 in hepatitis B. *Antivir Ther*. 2015 Nov 24. doi: 10.3851/IMP3014. [Epub ahead of print]

**Wiegand SB**, Jaroszewicz J, Potthoff A, Höner Zu Siederdisen C, Maasoumy B, Deterding K, Manns MP, Wedemeyer H, Cornberg M. Dominance of hepatitis C virus (HCV) is associated with lower quantitative hepatitis B surface antigen and higher serum interferon- $\gamma$ -induced protein 10 levels in HBV/HCV-coinfected patients. *Clin Microbiol Infect*. 2015 Jul;21(7):710.e1-9.

Maasoumy B, **Wiegand SB**, Jaroszewicz J, Bremer B, Lehmann P, Deterding K, Taranta A, Manns MP, Wedemeyer H, Glebe D, Cornberg M. Hepatitis B core-related antigen (HBcrAg) levels in the natural history of hepatitis B virus infection in a large European cohort predominantly infected with genotypes A and D. *Clin Microbiol Infect*. 2015 Jun;21(6):606.e1-606.e10.

Zscheppang K, Giese U, Hoenzke S, **Wiegel D**, Dammann CEL. ErbB4 is an Upstream Regulator of TTF-1. *Biochemical Biophysical Acta* 2013 Dec;1833(12):2690-702

Schiffer L, Henke-Gendo C, **Wilsdorf N**, Hussein K, Pape L, Schmitt C, Haller H, Schiffer M, Klein C, Kreipe H, Maecker-Kolhoff B. CXCL13 as a novel marker for diagnosis and disease monitoring in pediatric PTLD. *Am J Transplant*. 2012;12(6):1610-7.

**Wilsdorf N**, Eiz-Vesper B, Henke-Gendo C, Diestelhorst J, Oschlies I, Hussein K, Pape L, Baumann U, Tönshoff B, Pohl M, Höcker B, Wingen AM, Klapper W, Kreipe H, Schulz TF, Klein C, Maecker-Kolhoff B. EBV-specific T-cell immunity in pediatric solid organ graft recipients with posttransplantation lymphoproliferative disease. *Transplantation*. 2013; 95(1):247-55.

Strotmeier J, **Willjes G**, Binz T, Rummel A - Human synaptotagmin-II is not a high affinity receptor for botulinum neurotoxin B and G: increased therapeutic dosage and immunogenicity. *FEBS Lett*. 2012 Feb 17;586(4):310-3

**Willjes G**, Mahrhold S, Strotmeier J, Eichner T, Rummel A, Binz T. Botulinum neurotoxin G binds synaptotagmin-II in a mode similar to that of serotype B: tyrosine 1186 and lysine 1191 cause its lower affinity. *Biochemistry*. 2013 Jun 4;52(22):3930-8.

**Winter M**, Kashani E, Chennupati V, Föhse L, Prinz I. Visualization and quantification of monoallelic TCR $\alpha$  gene rearrangement in  $\alpha\beta$  T cells. *Immunol Cell Biol*. 2014 May-Jun;92(5):409-16.

Jablonka A, Solbach P, **Wöbse M**, Manns MP, Schmidt RE, Wedemeyer H, Cornberg M, Behrens GMN, Hardtke S. Seroprevalence of antibodies and antigens against hepatitis A-E viruses in refugees and asylum seekers in Germany in 2015. *Eur J Gastroenterol Hepatol*. 2017 Aug;29(8):939-945.

Wranke A, Hardtke, S., Heidrich, B.....**Wöbse, M.**, Yurdaydin, C.. Ten-year follow-up of a randomized controlled clinical trial in chronic hepatitis delta. *J Viral Hepat* 2020 Dec;27(12):1359-1368.