

Selected Publications

Jirmo, A. C., Busse, M., Happle, C., Skuljec, J., Daluge, K., Habener, A., Grychtol, R., DeLuca, D. S., Breiholz, O. D., Prinz, I. and **Hansen, G.**, IL-17 regulates DC migration to the peribronchial LNs and allergen presentation in experimental allergic asthma. **Eur J Immunol** 2020: 10.1002/eji.201948409

Bickes, M. S., Pirr, S., Heinemann, A. S., Fehlhaber, B., Halle, S., Vollger, L., Willers, M., Richter, M., Bohne, C., Albrecht, M., Langer, M., Pfeifer, S., Jonigk, D., Vieten, G., Ure, B., von Kaisenberg, C., Forster, R., von Kockritz-Blickwede, M., **Hansen, G.** and Viemann, D., Constitutive TNF-alpha signaling in neonates is essential for the development of tissue-resident leukocyte profiles at barrier sites. **FASEB J** 2019: fj201900796R.

Happle, C., Jirmo, A. C., Meyer-Bahlburg, A., Habener, A., Hoymann, H. G., Hennig, C., Skuljec, J. and **Hansen, G.**, B cells control maternofetal priming of allergy and tolerance in a murine model of allergic airway inflammation. **J Allergy Clin Immunol** 2018. 141: 685-696 e686.

Happle, C., Lachmann, N., Ackermann, M., Mirenska, A., Gohring, G., Thomay, K., Mucci, A., Hetzel, M., Glomb, T., Suzuki, T., Chalk, C., Glage, S., Dittrich-Breiholz, O., Trapnell, B., Moritz, T. and **Hansen, G.**, Pulmonary Transplantation of Human Induced Pluripotent Stem Cell-derived Macrophages Ameliorates Pulmonary Alveolar Proteinosis. **Am J Respir Crit Care Med** 2018. 198: 350-360.

Skuljec, J., Cabanski, M., Surdziel, E., Lachmann, N., Brenig, S., Pul, R., Jirmo, A. C., Habener, A., Visic, J., Daluge, K., Hennig, C., Moritz, T., Happle, C. and **Hansen, G.**, Monocyte/macrophage lineage commitment and distribution are affected by the lack of regulatory T cells in scurfy mice. **Eur J Immunol** 2016. 46: 1656-1668.

Jirmo, A. C., Daluge, K., Happle, C., Albrecht, M., Dittrich, A. M., Busse, M., Habener, A., Skuljec, J. and **Hansen, G.**, IL-27 Is Essential for Suppression of Experimental Allergic Asthma by the TLR7/8 Agonist R848 (Resiquimod). **J Immunol** 2016. 197: 4219-4227.

Thome, U. H., Genzel-Boroviczeny, O., Bohnhorst, B., Schmid, M., Fuchs, H., Rohde, O., Avenarius, S., Topf, H. G., Zimmermann, A., Faas, D., Timme, K., Kleinlein, B., Buxmann, H., Schenk, W., Segerer, H., Teig, N., Gebauer, C., Hentschel, R., Heckmann, M., Schlosser, R., Peters, J., Rossi, R., Rascher, W., Bottger, R., Seidenberg, J., **Hansen, G.**, Zernickel, M., Alzen, G., Dreyhaupt, J., Muc, R., Hummler, H. D. and Group, P. S., Permissive hypercapnia in extremely low birthweight infants (PHELI): a randomised controlled multicentre trial. **Lancet Respir Med** 2015. 3: 534-543.

Happle C, Lachmann N, Skuljec J, Wetzke M, Ackermann M, Brenig S, Mucci A, Jirmo AC, Groos S, Mirenska A, Hennig C, Rodt T, Bankstahl JP, Schwerk N, Moritz T, **Hansen G.** Pulmonary transplantation of macrophage progenitors as effective and long-lasting therapy for hereditary pulmonary alveolar proteinosis. **Science Transl Med.** 2014. 6: 250ra113. DOI: 10.1126/ scitranslmed.3009750.

Lachmann N, Happle C, Ackermann M, Luttge D, Wetzke M, Merkert S, Hetzel M, Kensah G, Jara- Avaca M, Mucci A, Skuljec J, Dittrich AM, Pfaff N, Brenning S, Schambach A, Steinemann D, Gohring G, Cantz T, Martin U, Schwerk N, **Hansen G***, Moritz T* (*equal contribution). Gene correction of human induced pluripotent stem cells repairs the cellular phenotype in pulmonary alveolar proteinosis. **Am J Respir Crit Care Med**. 2014. 189: 167-182. DOI: 10.1164/rccm.201306-1012OC.

Hennig C, Ilginus C, Boztug K, Skokowa J, Marodi L, Szaflarska A, Sass M, Pignata C, Kilic SS, Caragol I, Baumann U, Klein C, Welte K, **Hansen G**. High-content cytometry and transcriptomic biomarker profiling of human B-cell activation. **J Allergy Clin Immunol**. 2014. 133: 172-180 e171-110. DOI: 10.1016/j.jaci.2013.06.047.

Dijkstra D, Hennig C, Witte T, **Hansen G**. Basophils from humans with systemic lupus erythematosus do not express MHC-II. **Nature Medicine**. 2012. 18: 488-489; 489-490. DOI: 10.1038/nm.2663.

Polte T, Hennig C, **Hansen G**. Allergy prevention starts before conception: maternofetal transfer of tolerance protects against the development of asthma. **J Allergy Clin Immunol**. 2008. 122: 1022-1030 e1025. DOI: 10.1016/j.jaci.2008.09.014.

Polte T, Foell J, Werner C, Hoymann HG, Braun A, Burdach S, Mittler RS, **Hansen G**. CD137- mediated immunotherapy for allergic asthma. **J Clin Invest**. 2006. 116: 1025-1036. DOI: 10.1172/ JCI23792.

Polte T, Behrendt AK, **Hansen G**. Direct evidence for a critical role of CD30 in the development of allergic asthma. **J Allergy Clin Immunol**. 2006. 118: 942-948. DOI: 10.1016/j.jaci.2006.07.014.

Hofmann, H. S., **Hansen, G.**, Burdach, S., Bartling, B., Silber, R. E. and Simm, A., Discrimination of human lung neoplasm from normal lung by two target genes. **Am J Respir Crit Care Med** 2004. 170: 516-519.

Hansen, G., Jin, S., Umetsu, D. T. and Conti, M., Absence of muscarinic cholinergic airway responses in mice deficient in the cyclic nucleotide phosphodiesterase PDE4D. **Proc Natl Acad Sci U S A** 2000. 97: 6751-6756.

Hansen, G., McIntire, J. J., Yeung, V. P., Berry, G., Thorbecke, G. J., Chen, L., DeKruyff, R. H. and Umetsu, D. T., CD4(+) T helper cells engineered to produce latent TGF-beta1 reverse allergen-induced airway hyperreactivity and inflammation. **J Clin Invest** 2000. 105: 61-70.

Cuttini, M., Nadai, M., Kaminski, M., **Hansen, G.**, de Leeuw, R., Lenoir, S., Persson, J., Rebagliato, M., Reid, M., de Vonderweid, U., Lenard, H. G., Orzalesi, M. and Saracci, R., End-of-life decisions in neonatal intensive care: physicians' self-reported practices in seven European countries. EURONIC Study Group. **Lancet** 2000. 355: 2112-2118.

Hansen G, Berry G, DeKruyff RH, Umetsu DT. Allergen-specific Th1 cells fail to counterbalance Th2 cell-induced airway hyperreactivity but cause severe airway inflammation. **J Clin Invest** 1999. 103:175-183. DOI: 10.1172/JCI5155.