

Curriculum Vitae

Christine Happle Professor, Dr. med., Dr. PhD
d.o.b. January 1980, Münster in Westphalia

University Education

2019 Habilitation in Pediatrics
2014 Doctorate PhD in molecular Medicine, HBRS Hannover
2009 Doctorate Medicine, TU Munich
1999 – 2006 Study of Human Medicine in Leipzig, Freiburg, München, Sydney (Australia), Mendoza (Argentina), and Amsterdam (Netherlands)

Scientific Career

2022 - current Attending physician, Department Pediatric Pneumology, Allergology and Neonatology, MHH
2022 Professorship Pediatrics, MHH (extraordinary Professor)
2022 Subspecialization Pediatric Pneumology (board certification)
2021 - current Member of the executive committee of the German Lung Research (DZL) Center Hannover-Breath (Breath Young Leaders Committee)
2021 - current Group leader, research in airway host defence and lung immunology
Since 2020 Group leader, JRG “Translational immunology of the lung”, Pediatric Pneumology, Allergology, Neonatology; Hannover Medical School
2020-2021 Training in “academic management” (Center for Science and Research Management Speyer)
2020 Call for W2-Professorship Translational Immunology, FWU Bonn (declined)
2019 - 2020 Member steering committee, Cluster of Excellence REBIRTH, MHH
Since 2019 Faculty, Hannover Medical School
2018 - current Subspecialization emergency medicine, Hannover Medical School
2017 - current Young Academy Clinician Scientist committee, Hannover Medical School, member
Since 2016 Principal Investigator, German Center for Lung Research
2016 - current Migration Medicine – “Analyses of health care utilization and medical needs in refugees“ (unpaid collaboration MHH with Medical University Göttingen)
2016 Consultant in Pediatrics, Hannover Medical School
2014 PhD, Molecular Medicine, Hannover Medical School
2013 Ina Pichlmayr mentoring program for young women in research 2009MD thesis, Institute for Human Genetics, Technical University Munich
2006 - current Clinician Scientist in Pediatrics, Hannover Medical School
2014 - current Speaker of the “Young Investigator Group” of the German Society for Pediatric Pneumology
2012 - 2014 PhD committee Hannover Biomedical Research School, member
2012 - 2014 German Society for Pediatric Pneumology (GPP), scientific secretary

Awards and Honors

2017 Johannes Wenner Prize of the German Society for Pediatric Pneumology and German Lung Foundation (15.000€)
2015 Clinical Research Prize of the German Respiratory Society (10.000€ together with N. Lachmann)
2013 Eva-Luise Köhler Research Prize for rare diseases of the Eva-Luise Köhler Foundation (50.000€ together with G. Hansen, T. Moritz, N. Lachmann)

Top-10 selected Publications

Habener A, **Happle C**, Grychtol RM, Skuljec J, Busse M, Dalüge K, Obernolte H, Sewald K, Braun A, Meyer-Bahlburg A, Hansen G. Regulatory B cells control airway hyperreactivity and lung remodeling in a murine asthma model. *J Allergy Clin Immunol*. 2021 Jun;147(6):2281-2294.e7. doi: 10.1016/j.jaci.2020.09.041. Epub 2020 Nov 27. PMID: 33249168

Weckmann M, Bahmer T, Sand JM, Rank Rønnow S, Pech M, Vermeulen C, Faiz A, Leeming DJ, Karsdal MA, Lunding L, Oliver BGG, Wegmann M, Ulrich-Merzenich G, Juergens UR, Duhn J, Laumonnier Y, Danov O, Sewald K, Zissler U, Jonker M, König I, Hansen G, von Mutius E, Fuchs O, Dittrich AM, Schaub B, **Happle C**, Rabe KF, van de Berge M, Burgess JK, Kopp MV; ALLIANCE Study Group as part of the German Centre for Lung Research (DZL). COL4A3 is degraded in allergic asthma and degradation predicts response to anti-IgE therapy. *Eur Respir J*. 2021 Dec 9;58(6):2003969. doi: 10.1183/13993003.03969-2020. PMID: 34326188.

Zychlinsky Scharff A, Jablonka A, **Happle C**. Journals - women's marital status is none of your business. *Nature*. 2021 Jan;589(7842):352. doi: 10.1038/d41586-021-00109-9. PMID: 33469235.

Maison N, Omony J, Illi S, Thiele D, Skevaki C, Dittrich AM, Bahmer T, Rabe KF, Weckmann M, **Happle C**, Schaub B, Meier M, Foth S, Rietschel E, Renz H, Hansen G, Kopp MV, von Mutius E, Grychtol R; ALLIANCE Study Group. T-high asthma phenotypes across life span. *Eur Respir J*. 2022 Feb 24:2102288. doi: 10.1183/13993003.02288-2021. Epub ahead of print. PMID: 35210326.

Habener A, Grychtol R, Gaedcke S, DeLuca D, Dittrich AM, **Happle C**, Abdo M, Watz H, Pedersen F, König IR, Thiele D, Kopp MV, von Mutius E, Bahmer T, Rabe KF, Meyer-Bahlburg A, Hansen G; ALLIANCE study group as part of the German Center for Lung Research (DZL). IgA+ memory B cells are significantly increased in patients with asthma and small airways dysfunction. *Eur Respir J*. 2022 May 20:2102130. doi: 10.1183/13993003.02130-2021. Epub ahead of print. PMID: 35595320.

Happle C, Jirmo AC, Meyer-Bahlburg A, Habener A, Hoymann HG, Hennig C, Skuljec J, Hansen G. B cells control maternofetal priming of allergy and tolerance in a murine model of allergic airway inflammation. *J Allergy Clin Immunol*. 2018 Feb;141(2):685-696.e6. doi: 10.1016/j.jaci.2017.03.051. Epub 2017 Jun 7. PMID: 28601684.

Happle C, Lachmann N, Ackermann M, Mirenska A, Göhring G, Thomay K, Mucci A, Hetzel M, Glomb T, Suzuki T, Chalk C, Glage S, Dittrich-Breiholz O, Trapnell B, Moritz T, Hansen G. Pulmonary Transplantation of Human iPSC-derived Macrophages Ameliorates Pulmonary Alveolar Proteinosis. *Am J Respir Crit Care Med*. 2018 Apr 13. doi: 10.1164/rccm.201708-1562OC. PMID: 29652170.

Happle C, Lachmann N, Ackermann M, Mirenska A, Göhring G, Thomay K, Mucci A, Hetzel M, Glomb T, Suzuki T, Chalk C, Glage S, Dittrich-Breiholz O, Trapnell B, Moritz T, Hansen G. Pulmonary Transplantation of Human Induced Pluripotent Stem Cell-derived Macrophages Ameliorates Pulmonary Alveolar Proteinosis. *Am J Respir Crit Care Med*. 2018 Aug 1;198(3):350-360. doi: 10.1164/rccm.201708-1562OC.

Lachmann N, **Happle C**, Ackermann M, Lüttge 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, Göhring G, Cantz T, Martin U, Schwerk N, Hansen G, Moritz T. Gene correction of human induced pluripotent stem cells repairs the cellular phenotype in pulmonary alveolar proteinosis. *Am J Respir Crit Care Med*. 2014 Jan 15;189(2):167-82. doi: 10.1164/rccm.201306-1012OC. PMID: 24279725.

Pfeufer A, Sanna S, Arking DE, Müller M, Gateva V, Fuchsberger C, Ehret GB, Orrú M, Pattaro C, Köttgen A, Perz S, Usala G, Barbalic M, Li M, Pütz B, Scuteri A, Prineas RJ, Sinner MF, Gieger C, Najjar SS, Kao WH, Mühleisen TW, Dei M, **Happle C**, Möhlenkamp S, Crisponi L, Erbel R, Jöckel KH, Naitza S, Steinbeck G, Marroni F, Hicks AA, Lakatta E, Müller-Myhsok B, Pramstaller PP, Wichmann HE, Schlessinger D, Boerwinkle E, Meitinger T, Uda M, Coresh J, Kääb S, Abecasis GR, Chakravarti A. Common variants at ten loci modulate the QT interval duration in the QTSCD Study. *Nat Genet*. 2009 Apr;41(4):407-14. doi: 10.1038/ng.362. Epub 2009 Mar 22.