

Curriculum Vitae

Anne Hilgendorff Privatdozentin, Dr. med. habil.
d.o.b. December 03rd, 1974, in Stade, Germany

University Education

2011 Habilitation Pediatrics, Ludwig Maximilian University of Munich (LMU)
2004 Doctorate Medicine, Justus Liebig University Giessen (JLU)
1994–2001 Studies of Medicine, JLU

Scientific Career

2023 – 2026 Principal Investigator (PI) SFB/Transregio 359 “Perinatal Development of Immune Cell Topology (PILOT)”, DFG (German Research Foundation)
Since 2022 PI “Mapping the Pediatric Inhalation Interface: Nose, Mouth, and Airways”, Chan Zuckerberg Initiative
2022 Co-PI Corona Research Program, Bavarian Ministry of Science and the Arts
2020–2022 Lead-PI COVID grant COMBATC19R, Federal Ministry of Education and Research (BMBF)
Since 2017 Scientific coordinator of the double-headed Disease Area Diffuse Parenchymal Lung Disease (DPLD) in DZL, re-election 01/20
2016–2020 Leadership Team, Institute Lung Biology and Disease (ILBD, now LHI), Helmholtz Munich, Germany (HMGU)
2016–2017 PI Preclinical Transfer Fund “Breath of AIRR” (biomarker assay development)
2014–2018 PI International Research Group “BMP Signaling in Neonatal Chronic Lung Disease”, Helmholtz Association of German Research Centers
Since 2013 Coordinating Head of the CPC-M bioArchive (DZL); Lead-PI strategic partnership Ludwig Maximilian University Munich (LMU) – Cambridge University since 11/18
Since 2012 PI DZL (funding period DZL 1.0 – current (DZL 3.0))
Since 2012 Head of the neonatal “AIRR” cohort and study (Attention to Infants at Respiratory Risks, DRKS00004600, DRKS00012429), HMGU and LMU Hospital, Munich, Germany
Since 2012 Young Investigator Group Leader “Molecular Mechanisms of Neonatal Chronic Lung Disease”, CPC/ILBD, HMGU, Munich, Germany
2011–2013 PI DFG Project and LMU Munich Science Grant (FöFoLe) “Role of PDGF-A/PDGF-Receptor alpha signaling in normal and abnormal lung development”
2008–2010 Postdoctoral Fellowship, Vera Moulton Wall Center for Pulmonary Vascular Disease, Department of Pediatrics, Stanford University, School of Medicine, California, USA
2001–2005 Study Coordinator Pediatrics, Giessen Research Center in Infectious Diseases (GRID)

Clinical Career

Since 2016 Director of the Center for Comprehensive Developmental Care (CDeC^{LMU}), LMU Hospital, Munich, Germany
2010–2022 Fellowship Neuropediatrics, Social Pediatric Center, Dr. von Haunersche Children’s Hospital, LMU Hospital, Munich, Germany
2005–2010 Fellowship Neonatology, Department of Neonatology, Perinatal Center LMU Hospital, Munich, Germany; Board Certification Neonatology (Germany) 05/11
2001–2005 Internship and Residency Pediatrics, Department of Pediatrics, JLU, Giessen, Germany; Board Certification Pediatrics (Germany) 01/08

Awards and Honors

Since 2019 Member Advisory Board for EU Grants and Helmholtz Leadership Academy
Since 2014 Recurrent Visiting Associate Professorship, Stanford University, School of Medicine, USA
2009–2015 Travel Awards: Pediatric Academic Society (PAS), American Thoracic Society (ATS)
2003–2008 Young investigator, Scientific and Research Awards (German Association for Neonatology and Intensive Care, German Association for Perinatal Care)

Citation Record:

Total citations: 1908; h-index: 26

Top-10 selected Publications

1. Förster KM, Marchi H, Stöcklein S, Dietrich O, Ehrhardt H, Wielpütz MO, Flemmer AW, Schubert B, Mall MA, Ertl-Wagner BB, **Hilgendorff A**. MRI based scoring of the diseased lung in the preterm infant with BPD. *Am J Physiol Lung Cell Mol Physiol*. 2022 Nov 21. doi: [10.1152/ajplung.00430.2021](https://doi.org/10.1152/ajplung.00430.2021). Online ahead of print.
2. Bauer A, Pacht E, Hellmuth JC, Kneidinger N, Heydarian M, Frankenberger M, Stubbe HC, Ryffel B, Petrera A, Hauck SM, Behr J, Kaiser R, Scherer C, Deng L, Teupser D, Ahmidi N, Muenchhoff M, Schubert B, **Hilgendorff A**. Proteomics reveals antiviral host response and NETosis during acute COVID-19 in high-risk patients. *Biochim Biophys Acta Mol Basis Dis*. 2022 Nov 1;1869(2):166592. doi: [10.1016/j.bbadis.2022.166592](https://doi.org/10.1016/j.bbadis.2022.166592). Online ahead of print.
3. Kindt A, Kraus Y, Rasp D, Foerster KM, Ahmidi N, Flemmer AW, Herber-Jonat S, Heinen F, Weigand H, Hankemeier T, Koletzko B, Krumsiek J, Babl J, **Hilgendorff A**. Improved Macro- and Micronutrient Supply for Favorable Growth and Metabolomic Profile with Standardized Parenteral Nutrition Solutions for Very Preterm Infants. *Nutrients*. 2022; 14(19):3912. doi: [10.3390/nu14193912](https://doi.org/10.3390/nu14193912)
4. Heydarian M, Oak P, Zhang X, Kamgari N, Kindt A, Koschlig M, Pritzke T, Gonzalez-Rodriguez E, Förster K, Morty RE, Häfner F, Hübener C, Flemmer AW, Yildirim AO, Sudheendra D, Tian X, Petrera A, Kirsten H, Ahnert P, Morrell N, Desai TJ, Sucre J, Spiekerkoetter E, **Hilgendorff A**. Relationship between impaired BMP signalling and clinical risk factors at early-stage vascular injury in the preterm infant. *Thorax*. 2022 May 17;thoraxjnl-2021-218083. doi: [10.1136/thoraxjnl-2021-218083](https://doi.org/10.1136/thoraxjnl-2021-218083). Online ahead of print.
5. Kindt ASD, Förster KM, Cochius-den Otter SCM, Flemmer AW, Hauck SM, Flatley A, Kamphuis J, Karrasch S, Behr J, Franz A, Härtel C, Krumsiek J, Tibboel D, **Hilgendorff A**. Validation of disease-specific biomarkers for the early detection of bronchopulmonary dysplasia. *Pediatr Res*. 2022 May 20. doi: [10.1038/s41390-022-02093-w](https://doi.org/10.1038/s41390-022-02093-w). Online ahead of print.
6. Stoecklein S, Koliogiannis V, Prester T, Kolben T, Jegen M, Hübener C, Hasbargen U, Flemmer A, Dietrich O, Schinner R, Dinkel J, Fink N, Muenchhoff M, Hintz S, Delius M, Mahner S, Ricke J, **Hilgendorff A**. Effects of SARS-CoV-2 on prenatal lung growth assessed by fetal MRI. *Lancet Respir Med*. 2022 Mar 16:S2213-2600(22)00060-1. doi: [10.1016/S2213-2600\(22\)00060-1](https://doi.org/10.1016/S2213-2600(22)00060-1). Epub ahead of print.
7. Stoecklein S, **Hilgendorff A**, Li M, Förster K, Flemmer AW, Galiè F, Wunderlich S, Wang D, Stein S, Ehrhardt H, Dietrich O, Zou Q, Zhou S, Ertl-Wagner B, Liu H. Variable functional connectivity architecture of the preterm human brain: Impact of developmental cortical expansion and maturation. *Proc Natl Acad Sci USA* 117:1201-1206, Doi: [10.1073/pnas.1907892117](https://doi.org/10.1073/pnas.1907892117), 2020.
8. Förster K, Ertl-Wagner B, Ehrhardt H, Busen H, Sass S, Pomschar A, Naehrlich L, Schulze A, Flemmer AW, Hübener C, Eickelberg O, Theis F, Dietrich O, **Hilgendorff A**. Altered relaxation times in MRI indicate bronchopulmonary dysplasia. *Thorax* 2020; 75:184-187, doi: [10.1136/thoraxjnl-2018-212384](https://doi.org/10.1136/thoraxjnl-2018-212384).
9. Förster K, Sass S, Ehrhardt H, Mous DS, Rottier RJ, Oak P, Schulze A, Flemmer AW, Gronbach J, Hübener C, Desai T, Eickelberg O, Theis FJ, **Hilgendorff A**. Early identification of Bronchopulmonary Dysplasia using novel biomarkers by proteomic screening. *Am J Respir Crit Care Med* 2018; 197:1076-1080. doi: [10.1164/rccm.201706-1218LE](https://doi.org/10.1164/rccm.201706-1218LE).
10. Oak P, Pritzke T, Thiel I, Koschlig M, Mous DS, Windhorst A, Jain N, Eickelberg O, Foerster K, Schulze A, Goepel W, Reicherzer T, Ehrhardt H, Rottier RJ, Ahnert P, Gortner L, Desai TJ, **Hilgendorff A**. Attenuated PDGF signaling drives alveolar and microvascular defects in neonatal chronic lung disease. *EMBO Mol Med* 2017; 9:1504-1520, doi: [10.15252/emmm.201607308](https://doi.org/10.15252/emmm.201607308).