

# Anne Hilgendorff

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

2,333  
citations

201674

27  
h-index

233421

45  
g-index

61  
all docs

61  
docs citations

61  
times ranked

3355  
citing authors

#	ARTICLE	IF	CITATIONS
1	Alveolar regeneration through a Krt8+ transitional stem cell state that persists in human lung fibrosis. <i>Nature Communications</i> , 2020, 11, 3559.	12.8	378
2	Chronic Lung Disease in the Preterm Infant. Lessons Learned from Animal Models. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014, 50, 233-245.	2.9	121
3	Prolonged mechanical ventilation with air induces apoptosis and causes failure of alveolar septation and angiogenesis in lungs of newborn mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010, 298, L23-L35.	2.9	116
4	Multiplatform Approach for Plasma Proteomics: Complementarity of Olink Proximity Extension Assay Technology to Mass Spectrometry-Based Protein Profiling. <i>Journal of Proteome Research</i> , 2021, 20, 751-762.	3.7	100
5	Differential effects of Nintedanib and Pirfenidone on lung alveolar epithelial cell function in ex vivo murine and human lung tissue cultures of pulmonary fibrosis. <i>Respiratory Research</i> , 2018, 19, 175.	3.6	90
6	Executive summary. Expert consensus statement on the diagnosis and treatment of paediatric pulmonary hypertension. The European Paediatric Pulmonary Vascular Disease Network, endorsed by ISHLT and DGPK. <i>Heart</i> , 2016, 102, ii86-ii100.	2.9	89
7	TRPM7 is the central gatekeeper of intestinal mineral absorption essential for postnatal survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4706-4715.	7.1	80
8	Pulmonary hypertension associated with acute or chronic lung diseases in the preterm and term neonate and infant. The European Paediatric Pulmonary Vascular Disease Network, endorsed by ISHLT and DGPK. <i>Heart</i> , 2016, 102, ii49-ii56.	2.9	78
9	Inhibiting Lung Elastase Activity Enables Lung Growth in Mechanically Ventilated Newborn Mice. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011, 184, 537-546.	5.6	71
10	Self-sustaining IL-8 loops drive a prothrombotic neutrophil phenotype in severe COVID-19. <i>JCI Insight</i> , 2021, 6, .	5.0	71
11	Polymorphisms in the human surfactant protein-D (SFTPD) gene: strong evidence that serum levels of surfactant protein-D (SP-D) are genetically influenced. <i>Immunogenetics</i> , 2005, 57, 1-7.	2.4	65
12	Translation of Angiotensin-Converting Enzyme 2 upon Liver- and Lung-Targeted Delivery of Optimized Chemically Modified mRNA. <i>Molecular Therapy - Nucleic Acids</i> , 2017, 7, 350-365.	5.1	57
13	Neonatal mice genetically modified to express the elastase inhibitor elafin are protected against the adverse effects of mechanical ventilation on lung growth. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2012, 303, L215-L227.	2.9	56
14	Impaired function and delayed regeneration of dendritic cells in COVID-19. <i>PLoS Pathogens</i> , 2021, 17, e1009742.	4.7	52
15	Bronchopulmonary Dysplasia Early Changes Leading to Long-Term Consequences. <i>Frontiers in Medicine</i> , 2015, 2, 2.	2.6	51
16	Variable functional connectivity architecture of the preterm human brain: Impact of developmental cortical expansion and maturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1201-1206.	7.1	49
17	Bronchopulmonary dysplasia - an overview about pathophysiologic concepts. <i>Molecular and Cellular Pediatrics</i> , 2015, 2, 2.	1.8	48
18	Social Variables Predict Gains in Cognitive Scores across the Preschool Years in Children with Birth Weights 500 to 1250 Grams. <i>Journal of Pediatrics</i> , 2015, 166, 870-876.e2.	1.8	45

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19	Association of polymorphisms in the human surfactant protein $\alpha$ 1 (SFTPD) gene and postnatal pulmonary adaptation in the preterm infant. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2009, 98, 112-117.	1.5	41
20	Facilitated Diagnosis of Pneumothoraces in Newborn Mice Using X-ray Dark-Field Radiography. <i>Investigative Radiology</i> , 2016, 51, 597-601.	6.2	40
21	Evolution of Bioengineered Lung Models: Recent Advances and Challenges in Tissue Mimicry for Studying the Role of Mechanical Forces in Cell Biology. <i>Advanced Functional Materials</i> , 2019, 29, 1903114.	14.9	40
22	Linking bronchopulmonary dysplasia to adult chronic lung diseases: role of WNT signaling. <i>Molecular and Cellular Pediatrics</i> , 2016, 3, 34.	1.8	39
23	Visualization of neonatal lung injury associated with mechanical ventilation using x-ray dark-field radiography. <i>Scientific Reports</i> , 2016, 6, 24269.	3.3	38
24	Effects of a recombinant surfactant protein-C-based surfactant on lung function and the pulmonary surfactant system in a model of meconium aspiration syndrome*. <i>Critical Care Medicine</i> , 2006, 34, 203-210.	0.9	34
25	Absence of TNF- $\alpha$ enhances inflammatory response in the newborn lung undergoing mechanical ventilation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 310, L909-L918.	2.9	33
26	Attenuated $\alpha$ PDGF signaling drives alveolar and microvascular defects in neonatal chronic lung disease. <i>EMBO Molecular Medicine</i> , 2017, 9, 1504-1520.	6.9	32
27	SIMVASTATIN ATTENUATES VASCULAR HYPERCOAGULABILITY IN CARDIAC TRANSPLANT RECIPIENTS1. <i>Transplantation</i> , 2000, 69, 1830-1836.	1.0	29
28	Host defence lectins in preterm neonates. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2005, 94, 794-799.	1.5	27
29	Lung matrix and vascular remodeling in mechanically ventilated elastin haploinsufficient newborn mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 308, L464-L478.	2.9	26
30	The BPD trio? Interaction of dysregulated PDGF, VEGF, and TGF signaling in neonatal chronic lung disease. <i>Molecular and Cellular Pediatrics</i> , 2017, 4, 11.	1.8	26
31	Single-cell RNA sequencing reveals ex vivo signatures of SARS-CoV-2-reactive T cells through $\alpha$ reverse phenotyping $\alpha$ ™. <i>Nature Communications</i> , 2021, 12, 4515.	12.8	23
32	Synthetic and natural surfactant differentially modulate inflammation after meconium aspiration. <i>Intensive Care Medicine</i> , 2003, 29, 2247-2254.	8.2	22
33	Activation of the NF- $\kappa$ B pathway alters the phenotype of MSCs in the tracheal aspirates of preterm infants with severe BPD. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 315, L87-L101.	2.9	22
34	Altered relaxation times in MRI indicate bronchopulmonary dysplasia. <i>Thorax</i> , 2020, 75, 184-187.	5.6	22
35	General Movement Assessment from videos of computed 3D infant body models is equally effective compared to conventional RGB video rating. <i>Early Human Development</i> , 2020, 144, 104967.	1.8	22
36	Cell-surface phenotyping identifies CD36 and CD97 as novel markers of fibroblast quiescence in lung fibrosis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 315, L682-L696.	2.9	21

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37	Early injury of the neonatal lung contributes to premature lung aging: a hypothesis. <i>Molecular and Cellular Pediatrics</i> , 2016, 3, 24.	1.8	18
38	Bronchopulmonary dysplasia and intrauterine growth restriction. <i>Lancet, The</i> , 2006, 368, 28.	13.7	17
39	Genetic testing and blood biomarkers in paediatric pulmonary hypertension. Expert consensus statement on the diagnosis and treatment of paediatric pulmonary hypertension. The European Paediatric Pulmonary Vascular Disease Network, endorsed by ISHLT and DGPK. <i>Heart</i> , 2016, 102, ii36-ii41.	2.9	17
40	Impact of airway obstruction on lung function in very preterm infants at term*. <i>Pediatric Critical Care Medicine</i> , 2008, 9, 629-635.	0.5	16
41	CX3CR1 fractalkine axis drives kinetic changes of monocytes in fibrotic interstitial lung diseases. <i>European Respiratory Journal</i> , 2020, 55, 1900460.	6.7	15
42	Phenotypic drug screening in a human fibrosis model identified a novel class of antifibrotic therapeutics. <i>Science Advances</i> , 2021, 7, eabb3673.	10.3	15
43	Gender-related effects of prenatal administration of estrogen and progesterone receptor antagonists on VEGF and surfactant-proteins and on alveolarisation in the developing piglet lung. <i>Early Human Development</i> , 2009, 85, 353-359.	1.8	13
44	Positive End-Expiratory Pressure Modifies Response to Recombinant and Natural Exogenous Surfactant in Ventilated Immature Newborn Rabbits. <i>Neonatology</i> , 2006, 90, 210-216.	2.0	9
45	Surfactant replacement and open lung concept – Comparison of two treatment strategies in an experimental model of neonatal ARDS. <i>BMC Pulmonary Medicine</i> , 2008, 8, 10.	2.0	9
46	Relationship between impaired BMP signalling and clinical risk factors at early-stage vascular injury in the preterm infant. <i>Thorax</i> , 2022, 77, 1176-1186.	5.6	8
47	Intrapulmonary Instillation of Perflurooctylbromide Improves Lung Growth, Alveolarization, and Lung Mechanics in a Fetal Rabbit Model of Diaphragmatic Hernia. <i>Pediatric Critical Care Medicine</i> , 2014, 15, e379-e388.	0.5	7
48	Gene expression profiling at birth characterizing the preterm infant with early onset infection. <i>Journal of Molecular Medicine</i> , 2017, 95, 169-180.	3.9	7
49	Effects of SARS-CoV-2 on prenatal lung growth assessed by fetal MRI. <i>Lancet Respiratory Medicine</i> , 2022, 10, e36-e37.	10.7	7
50	Validation of in vitro models for smoke exposure of primary human bronchial epithelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2022, 322, L129-L148.	2.9	6
51	Validation of disease-specific biomarkers for the early detection of bronchopulmonary dysplasia. <i>Pediatric Research</i> , 2023, 93, 625-632.	2.3	5
52	Value of soluble adhesion molecules and plasma coagulation markers in assessing transplant coronary artery disease in pediatric heart transplant recipients. <i>Pediatric Transplantation</i> , 2006, 10, 434-440.	1.0	4
53	Early Changes and Indicators Characterizing Lung Aging in Neonatal Chronic Lung Disease. <i>Frontiers in Medicine</i> , 2021, 8, 665152.	2.6	4
54	TRAIL protects the immature lung from hyperoxic injury. <i>Cell Death and Disease</i> , 2022, 13, .	6.3	2

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55	Pilzinfektionen. , 2013, , 421-442.		0
56	Listeriose. , 2013, , 325-334.		0
57	FrÃ¼hgeborene und hypotrophe Neugeborene. , 2014, , 41-50.		0