

# Univ-Prof Heinz Fehrenbach

## List of Publications by Year in descending order

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99  
papers

4,834  
citations

117625

34  
h-index

98798

67  
g-index

102  
all docs

102  
docs citations

102  
times ranked

6341  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Official Research Policy Statement of the American Thoracic Society/European Respiratory Society: Standards for Quantitative Assessment of Lung Structure. American Journal of Respiratory and Critical Care Medicine, 2010, 181, 394-418.	5.6	760
2	Alveolar epithelial type II cell: defender of the alveolus revisited. Respiratory Research, 2001, 2, 33-46.	3.6	617
3	Airway remodeling in asthma: what really matters. Cell and Tissue Research, 2017, 367, 551-569.	2.9	278
4	Up-regulated expression of the receptor for advanced glycation end products in cultured rat hepatic stellate cells during transdifferentiation to myofibroblasts. Hepatology, 2001, 34, 943-952.	7.3	137
5	IL-37 requires IL-18R $\alpha$ and SIGIRR/IL-1R8 to diminish allergic airway inflammation in mice. Allergy: European Journal of Allergy and Clinical Immunology, 2015, 70, 366-373.	5.7	119
6	Characterisation of post-pneumonectomy lung growth in adult mice. European Respiratory Journal, 2004, 24, 524-532.	6.7	108
7	Neoalveolarisation contributes to compensatory lung growth following pneumonectomy in mice. European Respiratory Journal, 2008, 31, 515-522.	6.7	99
8	Optimising experimental research in respiratory diseases: an ERS statement. European Respiratory Journal, 2018, 51, 1702133.	6.7	98
9	Keratinocyte growth factor-induced hyperplasia of rat alveolar type II cells in vivo is resolved by differentiation into type I cells and by apoptosis. European Respiratory Journal, 1999, 14, 534.	6.7	97
10	Alveolar macrophages are the main source for tumour necrosis factor $\alpha$ in patients with sarcoidosis. European Respiratory Journal, 2003, 21, 421-428.	6.7	97
11	Loss of classical transient receptor potential 6 channel reduces allergic airway response. Clinical and Experimental Allergy, 2008, 38, 1548-1558.	2.9	91
12	Differential immunolocalization of VEGF in rat and human adult lung, and in experimental rat lung fibrosis: Light, fluorescence, and electron microscopy. The Anatomical Record, 1999, 254, 61-73.	1.8	86
13	Involvement of distal airways in a chronic model of experimental asthma. Clinical and Experimental Allergy, 2005, 35, 1263-1274.	2.9	86
14	Involvement of Cathepsin H in the Processing of the Hydrophobic Surfactant-Associated Protein C in Type II Pneumocytes. American Journal of Respiratory Cell and Molecular Biology, 2002, 26, 659-670.	2.9	82
15	Decreased Pathology and Prolonged Survival of Human DC-SIGN Transgenic Mice during Mycobacterial Infection. Journal of Immunology, 2008, 180, 6836-6845.	0.8	80
16	Phosphoinositide 3-OH Kinase Inhibition Prevents Ventilation-induced Lung Cell Activation. American Journal of Respiratory and Critical Care Medicine, 2004, 169, 201-208.	5.6	78
17	Ultrastructural Alterations in Intraalveolar Surfactant Subtypes after Experimental Ischemia and Reperfusion. American Journal of Respiratory and Critical Care Medicine, 1999, 160, 718-724.	5.6	73
18	Induction of Apoptosis by Glyoxal in Human Embryonic Lung Epithelial Cell Line L132. American Journal of Respiratory Cell and Molecular Biology, 2000, 23, 485-491.	2.9	70

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19	Molecular architecture of the fruit fly's airway epithelial immune system. BMC Genomics, 2008, 9, 446.	2.8	59
20	Lung endothelial monocyte-activating protein 2 is a mediator of cigarette smoke-induced emphysema in mice. Journal of Clinical Investigation, 2011, 121, 2470-2479.	8.2	59
21	Palifermin Induces Alveolar Maintenance Programs in Emphysematous Mice. American Journal of Respiratory and Critical Care Medicine, 2010, 181, 705-717.	5.6	55
22	Biological effects of carbon black nanoparticles are changed by surface coating with polycyclic aromatic hydrocarbons. Particle and Fibre Toxicology, 2017, 14, 8.	6.2	55
23	NO <sub>2</sub> -induced airway inflammation is associated with progressive airflow limitation and development of emphysema-like lesions in C57BL/6 mice. Experimental and Toxicologic Pathology, 2005, 56, 341-350.	2.1	53
24	A distinct microbiota composition is associated with protection from food allergy in an oral mouse immunization model. Clinical Immunology, 2016, 173, 10-18.	3.2	52
25	Increased surfactant protein D in rat airway goblet and Clara cells during ovalbumin-induced allergic airway inflammation. Clinical and Experimental Allergy, 2002, 32, 1251-1258.	2.9	49
26	Systemic hydrogen sulfide administration partially restores normal alveolarization in an experimental animal model of bronchopulmonary dysplasia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 306, L684-L697.	2.9	49
27	Early Alterations in Intracellular and Alveolar Surfactant of the Rat Lung in Response to Endotoxin. American Journal of Respiratory and Critical Care Medicine, 1998, 157, 1630-1639.	5.6	47
28	Alveolar epithelial type II cell apoptosis in vivo during resolution of keratinocyte growth factor-induced hyperplasia in the rat. Histochemistry and Cell Biology, 2000, 114, 49-61.	1.7	46
29	The H <sub>2</sub> S-generating enzymes cystathionine $\beta$ -synthase and cystathionine $\gamma$ -lyase play a role in vascular development during normal lung alveolarization. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L710-L724.	2.9	46
30	Poly(inosinic-cytidylic) Acid-Triggered Exacerbation of Experimental Asthma Depends on IL-17A Produced by NK Cells. Journal of Immunology, 2015, 194, 5615-5625.	0.8	44
31	Selective depletion of Foxp3 <sup>+</sup> Treg during sensitization phase aggravates experimental allergic airway inflammation. European Journal of Immunology, 2010, 40, 2259-2266.	2.9	43
32	Pulmonary ischemia/reperfusion injury: A quantitative study of structure and function in isolated heart-lungs of the rat. The Anatomical Record, 1999, 255, 84-99.	1.8	39
33	Preservation of intraalveolar surfactant in a rat lung ischaemia/reperfusion injury model. European Respiratory Journal, 2000, 15, 526-531.	6.7	38
34	Systematic comparison of RNA extraction techniques from frozen and fresh lung tissues: checkpoint towards gene expression studies. Diagnostic Pathology, 2009, 4, 9.	2.0	37
35	Stereological estimation of the volume weighted mean volumes of alveoli and acinar pathways in the rat lung to characterise alterations after ischaemia/reperfusion. Journal of Anatomy, 1999, 194, 127-135.	1.5	35
36	Alterations in the immunohistochemical distribution patterns of vascular endothelial growth factor receptors Flk1 and Flt1 in bleomycin-induced rat lung fibrosis. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 1999, 435, 20-31.	2.8	33

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37	Keratinocyte growth factor protects against Clara cell injury induced by naphthalene. <i>European Respiratory Journal</i> , 2008, 32, 694-704.	6.7	31
38	Beneficial Effect of Lung Preservation Is Related to Ultrastructural Integrity of Tubular Myelin after Experimental Ischemia and Reperfusion. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2000, 161, 2058-2065.	5.6	30
39	Cell-specific modulation of surfactant proteins by ambroxol treatment. <i>Toxicology and Applied Pharmacology</i> , 2005, 203, 27-35.	2.8	30
40	Eggshell fine structure of three lepidopteran pests: <i>Cydia pomonella</i> (L.) (Tortricidae), <i>Heliothis virescens</i> (Fabr.), and <i>Spodoptera littoralis</i> (Boisd.) (Noctuidae). <i>Arthropod Structure and Development</i> , 1987, 16, 201-219.	0.4	29
41	Keratinocyte growth factor-induced proliferation of rat airway epithelium is restricted to Clara cells in vivo. <i>European Respiratory Journal</i> , 2002, 20, 1185-1197.	6.7	29
42	Reduced vascular endothelial growth factor correlates with alveolar epithelial damage after experimental ischemia and reperfusion. <i>Journal of Heart and Lung Transplantation</i> , 2003, 22, 967-978.	0.6	29
43	Novel therapeutic roles for surfactant-inositols and -phosphatidylglycerols in a neonatal piglet ARDS model: a translational study. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 314, L32-L53.	2.9	29
44	Ultrastructural pathology of the alveolar type II pneumocytes of human donor lungs. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 1998, 432, 229-239.	2.8	28
45	Animal Models of Chronic Obstructive Pulmonary Disease: Some Critical Remarks. <i>Pathobiology</i> , 2002, 70, 277-283.	3.8	28
46	Anti-acids lead to immunological and morphological changes in the intestine of BALB/c mice similar to human food allergy. <i>Experimental and Toxicologic Pathology</i> , 2008, 60, 337-345.	2.1	27
47	Combined use of prostacyclin and higher perfusate temperatures further enhances the superior lung preservation by celsior solution in the isolated rat lung. <i>Journal of Heart and Lung Transplantation</i> , 1999, 18, 684-692.	0.6	25
48	IL-37 regulates allergic inflammation by counterbalancing pro-inflammatory IL-1 and IL-33. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2022, 77, 856-869.	5.7	25
49	Evaluation of Pulmonary Edema: Stereological versus Gravimetric Analysis. <i>European Surgical Research</i> , 2001, 33, 270-278.	1.3	24
50	Ultrastructure of canine type II pneumocytes during hypothermic ischemia of the lung: A study by means of conventional and energy filtering transmission electron microscopy and stereology. <i>The Anatomical Record</i> , 2001, 263, 118-126.	1.8	23
51	Nerve growth factor induces type III collagen production in chronic allergic airway inflammation. <i>Journal of Allergy and Clinical Immunology</i> , 2011, 128, 1058-1066.e4.	2.9	23
52	Constitutive immune activity promotes JNK- and FoxO-dependent remodeling of <i>Drosophila</i> airways. <i>Cell Reports</i> , 2021, 35, 108956.	6.4	22
53	Surfactant Homeostasis Is Maintained In Vivo during Keratinocyte Growth Factor-induced Rat Lung Type II Cell Hyperplasia. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2003, 167, 1264-1270.	5.6	21
54	Pulmonary Haptoglobin and CD163 Are Functional Immunoregulatory Elements in the Human Lung. <i>Respiration</i> , 2012, 83, 61-73.	2.6	20

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55	Improved preservation of phospholipid-rich multilamellar bodies in conventionally embedded mammalian lung tissue—an electron spectroscopic study. <i>Journal of Microscopy</i> , 1991, 162, 91-104.	1.8	19
56	Morphometric characterisation of the fine structure of human type II pneumocytes. <i>The Anatomical Record</i> , 1995, 243, 49-62.	1.8	19
57	Experimental Induction of AGEs in Fetal L132 Lung Cells Changes the Level of Intracellular Cathepsin D. <i>Biochemical and Biophysical Research Communications</i> , 1999, 261, 175-182.	2.1	19
58	Keratinocyte growth factor transiently alters pulmonary function in rats. <i>Journal of Applied Physiology</i> , 2004, 96, 704-710.	2.5	18
59	Improved lung preservation relates to an increase in tubular myelin-associated surfactant protein A. <i>Respiratory Research</i> , 2005, 6, 60.	3.6	18
60	Ultrastructural changes of the intracellular surfactant pool in a rat model of lung transplantation-related events. <i>Respiratory Research</i> , 2011, 12, 79.	3.6	18
61	rhKGF stimulates lung surfactant production in neonatal rats in vivo. <i>Pediatric Pulmonology</i> , 2011, 46, 882-895.	2.0	17
62	Long-Term Bortezomib Treatment Reduces Allergen-Specific IgE but Fails to Ameliorate Chronic Asthma in Mice. <i>International Archives of Allergy and Immunology</i> , 2012, 158, 43-53.	2.1	17
63	Nitroglycerin alters alveolar type II cell ultrastructure after ischemia and reperfusion. <i>Journal of Heart and Lung Transplantation</i> , 2001, 20, 876-888.	0.6	16
64	All-trans retinoic acid results in irregular repair of septa and fails to inhibit proinflammatory macrophages. <i>European Respiratory Journal</i> , 2011, 38, 425-439.	6.7	16
65	CARM1 regulates senescence during airway epithelial cell injury in COPD pathogenesis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019, 317, L602-L614.	2.9	16
66	Changes in xylosyltransferase activity and in proteoglycan deposition in bleomycin-induced lung injury in rat. <i>European Respiratory Journal</i> , 2001, 18, 347-356.	6.7	15
67	Administration of keratinocyte growth factor (KGF) modulates the pulmonary expression of nicotinic acetylcholine receptor subunits $\alpha 7$ , $\alpha 9$ and $\alpha 10$ . <i>Life Sciences</i> , 2007, 80, 2290-2293.	4.3	15
68	Distal airways are protected from goblet cell metaplasia by diminished expression of IL-13 signalling components. <i>Clinical and Experimental Allergy</i> , 2015, 45, 1447-1458.	2.9	15
69	Electron spectroscopic imaging (ESI) and electron energy loss spectroscopy (EELS) of multilamellar bodies and multilamellar body-like structures in tannic acid-treated alveolar septal cells. <i>Journal of Histochemistry and Cytochemistry</i> , 1994, 42, 805-809.	2.5	13
70	Improvement of Rat Lung Structure and Function after Preservation with Celsior. <i>Journal of Surgical Research</i> , 1999, 82, 285-293.	1.6	13
71	Effects of recombinant human keratinocyte growth factor on surfactant, plasma, and liver phospholipid homeostasis in hyperoxic neonatal rats. <i>Journal of Applied Physiology</i> , 2012, 112, 1317-1328.	2.5	13
72	Resistance of L132 lung cell clusters to glyoxal-induced apoptosis. <i>Histochemistry and Cell Biology</i> , 2000, 114, 283-292.	1.7	12

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73	Nitrogen dioxide induces apoptosis and proliferation but not emphysema in rat lungs. Thorax, 2007, 62, 438-446.	5.6	11
74	Occurrence of lipid bodies in canine type II pneumocytes during hypothermic lung ischemia. The Anatomical Record, 2004, 277A, 287-297.	1.8	10
75	Elastase-induced lung emphysema in rats is not reduced by hematopoietic growth factors when applied preventively. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2008, 452, 675-688.	2.8	10
76	Keratinocyte growth factor prevents intra-alveolar oedema in experimental lung isografts. European Respiratory Journal, 2008, 31, 21-28.	6.7	10
77	Composition of the immunoglobulin classic antigen-binding site regulates allergic airway inflammation in a murine model of experimental asthma. Clinical and Experimental Allergy, 2009, 39, 591-601.	2.9	10
78	Peripheral Erythrocytes Decrease upon Specific Respiratory Challenge with Grass Pollen Allergen in Sensitized Mice and in Human Subjects. PLoS ONE, 2014, 9, e86701.	2.5	10
79	The alpha-melanocyte-stimulating hormone acts as a local immune homeostasis factor in experimental allergic asthma. Clinical and Experimental Allergy, 2019, 49, 1026-1039.	2.9	10
80	Epidermal fatty acid-binding protein is increased in rat lungs following in vivo treatment with keratinocyte growth factor. International Journal of Biochemistry and Cell Biology, 2006, 38, 279-287.	2.8	9
81	DNA-Microarray Technology: Comparison of Methodological Factors of Recent Technique Towards Gene Expression Profiling. Critical Reviews in Biotechnology, 2008, 28, 239-251.	9.0	9
82	Transcriptomic analysis comparing mouse strains with extreme total lung capacities identifies novel candidate genes for pulmonary function. Respiratory Research, 2017, 18, 152.	3.6	9
83	Electron spectroscopic study (ESI, EELS) of Nanoplast-embedded mammalian lung. Journal of Microscopy, 1992, 166, 401-416.	1.8	8
84	Evaluation of lanthanide tracer methods in the study of mammalian pulmonary parenchyma and cardiac muscle by electron energy-loss spectroscopy. Journal of Microscopy, 1994, 174, 207-223.	1.8	8
85	Alveolar epithelial type II cells from embryonic stem cells: knights in shining armour?. European Respiratory Journal, 2012, 39, 240-241.	6.7	8
86	Pretreatment with perfluorohexane vapor attenuates fMLP-induced lung injury in isolated perfused rabbit lungs. Experimental Lung Research, 2010, 36, 342-351.	1.2	7
87	Cell Counting in Human Endobronchial Biopsies - Disagreement of 2D versus 3D Morphometry. PLoS ONE, 2014, 9, e92510.	2.5	7
88	Administration of keratinocyte growth factor down-regulates the pulmonary capacity of acetylcholine production. International Journal of Biochemistry and Cell Biology, 2007, 39, 1955-1963.	2.8	6
89	A Single D&H Gene Segment Is Sufficient for the Establishment of an Asthma Phenotype in a Murine Model of Allergic Airway Inflammation. International Archives of Allergy and Immunology, 2011, 156, 247-258.	2.1	5
90	Low Dose Carbon Black Nanoparticle Exposure Does Not Aggravate Allergic Airway Inflammation in Mice Irrespective of the Presence of Surface Polycyclic Aromatic Hydrocarbons. Nanomaterials, 2018, 8, 213.	4.1	5

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91	Fine structure of the eggshells of four primitive moths: <i>Hepialus hecta</i> (L.), <i>Wiseana umbraculata</i> (Guénée) (Hepialidae), <i>Mnesarchaea fusilella</i> walker and <i>M. Acuta</i> philp. (Mnesarchaeidae) (Lepidoptera,) Tj ETQ 1 1 0.74314 rgB	1.2	4
92	Left-sided mouse intubation: description and evaluation. <i>Experimental Lung Research</i> , 2010, 36, 25-30.	1.2	4
93	18. Eggs. , 0, , .		3
94	Treatment with keratinocyte growth factor does not improve lung allograft survival in the rat. <i>Langenbeck's Archives of Surgery</i> , 2009, 394, 133-141.	1.9	2
95	Mission impossible?. <i>EMBO Reports</i> , 2021, 22, e52334.	4.5	2
96	Micro analysis of the egg shell of <i>Adela metallica</i> (Poda) (Lepidoptera : Adelidae) by energy-filtering transmission electron microscopy (EFTEM). <i>Arthropod Structure and Development</i> , 1995, 24, 195-202.	0.4	1
97	Effects of keratinocyte growth factor on intra-alveolar surfactant fixed in situ: Quantitative ultrastructural and immunoelectron microscopic analysis. <i>Anatomical Record</i> , 2007, 290, 974-980.	1.4	1
98	Lung endothelial monocyte-activating protein 2 is a mediator of cigarette smoke-induced emphysema in mice. <i>Journal of Clinical Investigation</i> , 2012, 122, 2703-2703.	8.2	1
99	Characterization of phospholipid-modified lung surfactant in vitro and in a neonatal ARDS model reveals anti-inflammatory potential and surfactant lipidome signatures. <i>European Journal of Pharmaceutical Sciences</i> , 2022, 175, 106216.	4.0	1