Andrea Olschewski

List of Publications by Year in Descending Order

121 papers	4,578 citations	41 h-index	62 g-index
131 ext. papers	5,560 ext. citations	8.1 avg, IF	5.14 L-index

#	Paper	IF	Citations
121	Involvement of CFTR in the pathogenesis of pulmonary arterial hypertension. *European Respiratory Journal*, **2021**, 58,	13.6	5
120	Pulmonary fibrosis in Fra-2 transgenic mice is associated with decreased numbers of alveolar macrophages and increased susceptibility to pneumococcal pneumonia. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2021**, 320, L916-L925	5.8	0
119	Simple method of thawing cryo-stored samples preserves ultrastructural features in electron microscopy. *Histochemistry and Cell Biology*, **2021**, 155, 593-603	2.4	3
118	TMEM16A Potentiation: Possible Drawbacks. *American Journal of Respiratory and Critical Care Medicine*, **2020**, 202, 904-905	10.2	0
117	Basement Membrane Remodeling Controls Endothelial Function in Idiopathic Pulmonary Arterial Hypertension. *American Journal of Respiratory Cell and Molecular Biology*, **2020**, 63, 104-117	5.7	9
116	No indication of insulin resistance in idiopathic pulmonary arterial hypertension with preserved physical activity. *European Respiratory Journal*, **2020**, 55,	13.6	1
115	PDGFR□and □SMA mark two distinct mesenchymal cell populations involved in parenchymal and vascular remodeling in pulmonary fibrosis. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2020**, 318, L684-L697	5.8	12
114	Characterization of Mutations and Levels of BMP9 and BMP10 in Pulmonary Arterial Hypertension. *American Journal of Respiratory and Critical Care Medicine*, **2020**, 201, 575-585	10.2	46
113	Endothelial Dysfunction Following Enhanced TMEM16A Activity in Human Pulmonary Arteries. *Cells* , **2020**, 9,	7.9	3
112	Nano- and Micropatterned Polycaprolactone Cellulose Composite Surfaces with Tunable Protein Adsorption, Fibrin Clot Formation, and Endothelial Cellular Response. *Biomacromolecules*, **2019**, 20, 2327-2337	6.9	13
111	Targeting TMEM16A to reverse vasoconstriction and remodelling in□idiopathic pulmonary arterial hypertension. *European Respiratory Journal*, **2019**, 53,	13.6	33
110	IL-1 receptor blockade skews inflammation towards Th2 in a mouse model of systemic sclerosis. *European Respiratory Journal*, **2019**, 54,	13.6	14
109	Genetic determinants of risk in pulmonary arterial hypertension: international genome-wide association studies and meta-analysis. *Lancet Respiratory Medicine,the*, **2019**, 7, 227-238	35.1	55
108	Disconnect between Fibrotic Response and Right Ventricular Dysfunction. *American Journal of Respiratory and Critical Care Medicine*, **2019**, 199, 1550-1560	10.2	23
107	Long non-coding RNAs influence the transcriptome in pulmonary arterial hypertension: the role of PAXIP1-AS1. *Journal of Pathology*, **2019**, 247, 357-370	9.4	26
106	Identification of rare sequence variation underlying heritable pulmonary arterial hypertension. *Nature Communications*, **2018**, 9, 1416	17.4	182
105	Resident cell lineages are preserved in pulmonary vascular remodeling. *Journal of Pathology*, **2018**, 244, 485-498	9.4	22

104	The inflammatory cell landscape in the lungs of patients with idiopathic pulmonary arterial hypertension. *European Respiratory Journal*, **2018**, 51,	13.6	57
103	Loss of SMAD3 Promotes Vascular Remodeling in Pulmonary Arterial Hypertension via MRTF Disinhibition. *American Journal of Respiratory and Critical Care Medicine*, **2018**, 197, 244-260	10.2	36
102	Healthy Lung Vessel Morphology Derived From Thoracic Computed Tomography. *Frontiers in Physiology*, **2018**, 9, 346	4.6	7
101	Rho-Kinase Inhibition Ameliorates Dasatinib-Induced Endothelial Dysfunction and Pulmonary Hypertension. *Frontiers in Physiology*, **2018**, 9, 537	4.6	12
100	A pro-con debate: current controversies in PAH pathogenesis at the American Thoracic Society International Conference in 2017. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2018**, 315, L502-L516	5.8	9
99	No erythropoietin-induced growth is observed in non-small cell lung cancer cells. *International Journal of Oncology*, **2018**, 52, 518-526	4.4	5
98	Mild Elevation of Pulmonary Arterial Pressure as a Predictor of Mortality. *American Journal of Respiratory and Critical Care Medicine*, **2018**, 197, 509-516	10.2	84
97	Pathobiology, pathology and genetics of pulmonary hypertension: Update from the Cologne Consensus Conference 2018. *International Journal of Cardiology*, **2018**, 272S, 4-10	3.2	16
96	Docking of Meprin 1 to Heparan Sulphate Protects the Endothelium from Inflammatory Cell Extravasation. *Thrombosis and Haemostasis*, **2018**, 118, 1790-1802	7	6
95	Ion Channels in Pulmonary Hypertension: A Therapeutic Interest?. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	45
94	Fra2 Overexpression in Mice Leads to Non-allergic Asthma Development in an IL-13 Dependent Manner. *Frontiers in Immunology*, **2018**, 9, 2018	8.4	13
93	ALK3 undergoes ligand-independent homodimerization and BMP-induced heterodimerization with ALK2. *Free Radical Biology and Medicine*, **2018**, 129, 127-137	7.8	12
92	The glycerol backbone of phospholipids derives from noncarbohydrate precursors in starved lung cancer cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 6225-6230	11.5	25
91	Interaction of Tissue Engineering Substrates with Serum Proteins and Its Influence on Human Primary Endothelial Cells. *Biomacromolecules*, **2017**, 18, 413-421	6.9	23
90	Increased Expression of p22phox Mediates Airway Hyperresponsiveness in an Experimental Model of Asthma. *Antioxidants and Redox Signaling*, **2017**, 27, 1460-1472	8.4	5
89	The Role of PGE in Alveolar Epithelial and Lung Microvascular Endothelial Crosstalk. *Scientific Reports*, **2017**, 7, 7923	4.9	21
88	Importance of kynurenine in pulmonary hypertension. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2017**, 313, L741-L751	5.8	19
87	Changes in pulmonary exercise haemodynamics in scleroderma: a 4-year prospective study. *European Respiratory Journal*, **2017**, 50,	13.6	20

86	Hypoxic vascular response and ventilation/perfusion matching in end-stage COPD may depend on p22phox. *European Respiratory Journal*, **2017**, 50,	13.6	12
85	TASK-1 (KCNK3) channels in the lung: from cell biology to clinical implications. *European Respiratory Journal*, **2017**, 50,	13.6	37
84	TR3 is involved in hypoxia-induced apoptosis resistance in lung cancer cells downstream of HIF-1 *Lung Cancer*, **2017**, 111, 15-22	5.9	15
83	Lack of ABCG2 Leads to Biventricular Dysfunction and Remodeling in Response to Hypoxia. *Frontiers in Physiology*, **2017**, 8, 98	4.6	3
82	Docosahexaenoic acid causes rapid pulmonary arterial relaxation via KCa channel-mediated hyperpolarisation in pulmonary hypertension. *European Respiratory Journal*, **2016**, 48, 1127-1136	13.6	18
81	Amitriptyline and carbamazepine utilize voltage-gated ion channel suppression to impair excitability of sensory dorsal horn neurons in thin tissue slice: An in vitro study. *Neuroscience Research*, **2016**, 109, 16-27	2.9	8
80	Activated prostaglandin D2 receptors on macrophages enhance neutrophil recruitment into the lung. *Journal of Allergy and Clinical Immunology*, **2016**, 137, 833-43	11.5	42
79	TASK-1 Regulates Apoptosis and Proliferation in a Subset of Non-Small Cell Lung Cancers. *PLoS ONE*, **2016**, 11, e0157453	3.7	22
78	Use of ECG and Other Simple Non-Invasive Tools to Assess Pulmonary Hypertension. *PLoS ONE*, **2016**, 11, e0168706	3.7	9
77	Letter by Olschewski et al Regarding Article, "Upregulation of K2P3.1 K+ Current Causes Action Potential Shortening in Patients With Chronic Atrial Fibrillation". *Circulation*, **2016**, 133, e439	16.7	4
76	Functional and molecular factors associated with TAPSE in hypoxic pulmonary hypertension. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2016**, 311, L59-73	5.8	7
75	Microarray analysis in pulmonary hypertension. *European Respiratory Journal*, **2016**, 48, 229-41	13.6	37
74	CD133+ cells in pulmonary arterial hypertension. *European Respiratory Journal*, **2016**, 48, 459-69	13.6	14
73	Automated integer programming based separation of arteries and veins from thoracic CT images. *Medical Image Analysis*, **2016**, 34, 109-122	15.4	19
72	The role of inflammation in hypoxic pulmonary hypertension: from cellular mechanisms to clinical phenotypes. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2015**, 308, L229-52	5.8	119
71	Pressure Overload Creates Right Ventricular Diastolic Dysfunction in a Mouse Model: Assessment by Echocardiography. *Journal of the American Society of Echocardiography*, **2015**, 28, 828-43	5.8	28
70	Compartment-specific expression of collagens and their processing enzymes in intrapulmonary arteries of IPAH patients. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2015**, 308, L1002-13	5.8	44
69	Panobinostat reduces hypoxia-induced cisplatin resistance of non-small cell lung carcinoma cells via HIF-1 destabilization. *Molecular Cancer*, **2015**, 14, 4	42.1	47

68	Redox regulation of ion channels in the pulmonary circulation. *Antioxidants and Redox Signaling*, **2015**, 22, 465-85	8.4	26
67	PCK2 activation mediates an adaptive response to glucose depletion in lung cancer. *Oncogene*, **2015**, 34, 1044-50	9.2	119
66	High-mobility group box-1 induces vascular remodelling processes via c-Jun activation. *Journal of Cellular and Molecular Medicine*, **2015**, 19, 1151-61	5.6	44
65	Automatic Artery-Vein Separation from Thoracic CT Images Using Integer Programming. *Lecture Notes in Computer Science*, **2015**, 36-43	0.9	
64	Non-invasive determination of pulmonary hypertension with dynamic contrast-enhanced computed tomography: a pilot study. *European Radiology*, **2014**, 24, 668-76	8	18
63	Hypoxia increases membrane metallo-endopeptidase expression in a novel lung cancer ex vivo model - role of tumor stroma cells. *BMC Cancer*, **2014**, 14, 40	4.8	41
62	Comprehensive analysis of inflammatory markers in chronic thromboembolic pulmonary hypertension patients. *European Respiratory Journal*, **2014**, 44, 951-62	13.6	71
61	Endothelin-1 driven proliferation of pulmonary arterial smooth muscle cells is c-fos dependent. *International Journal of Biochemistry and Cell Biology*, **2014**, 54, 137-48	5.6	34
60	Distinct differences in gene expression patterns in pulmonary arteries of patients with chronic obstructive pulmonary disease and idiopathic pulmonary fibrosis with pulmonary hypertension. *American Journal of Respiratory and Critical Care Medicine*, **2014**, 190, 98-111	10.2	69
59	Ion channels and transporters as therapeutic targets in the pulmonary circulation. *Pharmacology & Therapeutics*, **2014**, 144, 349-68	13.9	18
58	Mechanisms of lidocaine's action on subtypes of spinal dorsal horn neurons subject to the diverse roles of Na(+) and K(+) channels in action potential generation. *Anesthesia and Analgesia*, **2014**, 119, 463-470	3.9	23
57	Characterization of patients with borderline pulmonary arterial pressure. *Chest*, **2014**, 146, 1486-1493	5.3	51
56	Liposomal nanoparticles encapsulating iloprost exhibit enhanced vasodilation in pulmonary arteries. *International Journal of Nanomedicine*, **2014**, 9, 3249-61	7.3	21
55	Meprin β, a novel mediator of vascular remodelling underlying pulmonary hypertension. *Journal of Pathology*, **2014**, 233, 7-17	9.4	42
54	Impact of atomization technique on the stability and transport efficiency of nebulized liposomes harboring different surface characteristics. *European Journal of Pharmaceutics and Biopharmaceutics*, **2014**, 88, 1076-85	5.7	22
53	TGF-β directs trafficking of the epithelial sodium channel ENaC which has implications for ion and fluid transport in acute lung injury. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E374-83	11.5	87
52	Double-stranded RNA attenuates the barrier function of human pulmonary artery endothelial cells. *PLoS ONE*, **2014**, 8, e63776	3.7	11
51	Quantification of tortuosity and fractal dimension of the lung vessels in pulmonary hypertension patients. *PLoS ONE*, **2014**, 9, e87515	3.7	59

50	Docosahexaenoic acid (DHA)-induced heme oxygenase-1 attenuates cytotoxic effects of DHA in vascular smooth muscle cells. *Atherosclerosis*, **2013**, 230, 406-13	3.1	11
49	Determination of cardiac output with dynamic contrast-enhanced computed tomography. *International Journal of Cardiovascular Imaging*, **2013**, 29, 1871-8	2.5	8
48	Biomarkers in pulmonary hypertension: what do we know?. *Chest*, **2013**, 144, 274-283	5.3	66
47	Zero reference level for right heart catheterisation. *European Respiratory Journal*, **2013**, 42, 1586-94	13.6	83
46	Src tyrosine kinase is crucial for potassium channel function in human pulmonary arteries. *European Respiratory Journal*, **2013**, 41, 85-95	13.6	82
45	BDNF/TrkB signaling augments smooth muscle cell proliferation in pulmonary hypertension. *American Journal of Pathology*, **2012**, 181, 2018-29	5.8	35
44	TRPV4 mutations in children with congenital distal spinal muscular atrophy. *Neurogenetics*, **2012**, 13, 195-203	3	24
43	Docosahexaenoic acid-induced unfolded protein response, cell cycle arrest, and apoptosis in vascular smooth muscle cells are triggered by Ca□+-dependent induction of oxidative stress. *Free Radical Biology and Medicine*, **2012**, 52, 1786-95	7.8	30
42	Pulmonary vascular resistances during exercise in normal subjects: a systematic review. *European Respiratory Journal*, **2012**, 39, 319-28	13.6	125
41	Peroxisome proliferator-activated receptor-□/□the acute signaling factor in prostacyclin-induced pulmonary vasodilation. *American Journal of Respiratory Cell and Molecular Biology*, **2012**, 46, 372-9	5.7	34
40	PAR-2 inhibition reverses experimental pulmonary hypertension. *Circulation Research*, **2012**, 110, 1179-91	15.7	52
39	Angiostatic factors in the pulmonary endarterectomy material from chronic thromboembolic pulmonary hypertension patients cause endothelial dysfunction. *PLoS ONE*, **2012**, 7, e43793	3.7	41
38	Hypoxia-induced cisplatin resistance is reversible and growth rate independent in lung cancer cells. *Cancer Letters*, **2011**, 308, 134-43	9.9	45
37	Origin of neomuscularized vessels in mice exposed to chronic hypoxia. *Respiratory Physiology and Neurobiology*, **2011**, 179, 342-5	2.8	9
36	Interaction of eosinophils with endothelial cells is modulated by prostaglandin EP4 receptors. *European Journal of Immunology*, **2011**, 41, 2379-89	6.1	22
35	Blocking potassium channels: a new principle for treating restenosis?. *Cardiovascular Research*, **2011**, 89, 255-7	9.9	2
34	Hypoxic pulmonary vasoconstriction and hypertension **2011**, 46-58		1
33	Alterations in the ankyrin domain of TRPV4 cause congenital distal SMA, scapuloperoneal SMA and HMSN2C. *Nature Genetics*, **2010**, 42, 160-4	36.3	191

32	Targeting TASK-1 channels as a therapeutic approach. *Advances in Experimental Medicine and Biology*, **2010**, 661, 459-73	3.6	14
31	Mexiletine and lidocaine suppress the excitability of dorsal horn neurons. *Anesthesia and Analgesia*, **2009**, 109, 258-64	3.9	16
30	Endothelin-1 inhibits background two-pore domain channel TASK-1 in primary human pulmonary artery smooth muscle cells. *American Journal of Respiratory Cell and Molecular Biology*, **2009**, 41, 476-83	5.7	51
29	Nuclear and cytoplasmic death receptor 5 as prognostic factors in patients with non-small cell lung cancer treated with chemotherapy. *Lung Cancer*, **2009**, 65, 98-104	5.9	27
28	Treprostinil potentiates the positive inotropic effect of catecholamines in adult rat ventricular cardiomyocytes. *British Journal of Pharmacology*, **2007**, 151, 779-86	8.6	20
27	Redox Signaling in Oxygen Sensing by Vessels **2007**, 171-188		
26	Role of store-operated calcium channels and calcium sensitization in normoxic contraction of the ductus arteriosus. *Circulation*, **2006**, 114, 1372-9	16.7	47
25	Classical transient receptor potential channel 6 (TRPC6) is essential for hypoxic pulmonary vasoconstriction and alveolar gas exchange. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 19093-8	11.5	247
24	Impact of TASK-1 in human pulmonary artery smooth muscle cells. *Circulation Research*, **2006**, 98, 1072-80	15.7	174
23	Role of ion channels in acute and chronic responses of the pulmonary vasculature to hypoxia. *Cardiovascular Research*, **2006**, 71, 630-41	9.9	62
22	Ketamine impairs excitability in superficial dorsal horn neurones by blocking sodium and voltage-gated potassium currents. *British Journal of Pharmacology*, **2005**, 146, 826-33	8.6	59
21	Thrombin impairs alveolar fluid clearance by promoting endocytosis of Na+,K+-ATPase. *American Journal of Respiratory Cell and Molecular Biology*, **2005**, 33, 343-54	5.7	56
20	Oleic acid inhibits alveolar fluid reabsorption: a role in acute respiratory distress syndrome?. *American Journal of Respiratory and Critical Care Medicine*, **2005**, 171, 469-79	10.2	68
19	Redox Signaling in Hypoxic Pulmonary Vasoconstriction **2005**, 27-33		
18	Nordexfenfluramine causes more severe pulmonary vasoconstriction than dexfenfluramine. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2004**, 286, L531-8	5.8	14
17	Opposite effects of redox status on membrane potential, cytosolic calcium, and tone in pulmonary arteries and ductus arteriosus. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2004**, 286, L15-22	5.8	41
16	Subacute hypoxia decreases voltage-activated potassium channel expression and function in pulmonary artery myocytes. *American Journal of Respiratory Cell and Molecular Biology*, **2004**, 31, 337-43	5.7	56
15	Prostacyclin and its analogues in the treatment of pulmonary hypertension **2004**, 102, 139-53		102

14	Meperidine suppresses the excitability of spinal dorsal horn neurons. *Anesthesiology*, **2004**, 100, 947-55	4.3	16
13	Local anaesthetics block hyperpolarization-activated inward current in rat small dorsal root ganglion neurones. *British Journal of Pharmacology*, **2003**, 139, 1273-80	8.6	25
12	Contribution of the K(Ca) channel to membrane potential and O2 sensitivity is decreased in an ovine PPHN model. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2002**, 283, L1103-9	5.8	25
11	Graded response of K+ current, membrane potential, and [Ca2+]i to hypoxia in pulmonary arterial smooth muscle. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2002**, 283, L1143-50	5.8	40
10	Enhancement of delayed-rectifier potassium conductance by low concentrations of local anaesthetics in spinal sensory neurones. *British Journal of Pharmacology*, **2002**, 136, 540-9	8.6	12
9	Physiologic basis for the treatment of pulmonary hypertension. *Translational Research*, **2001**, 138, 287-97		62
8	Basic electrical properties of in situ endothelial cells of small pulmonary arteries during postnatal development. *American Journal of Respiratory Cell and Molecular Biology*, **2001**, 25, 285-90	5.7	12
7	Effect of drugs used for neuropathic pain management on tetrodotoxin-resistant Na(+) currents in rat sensory neurons. *Anesthesiology*, **2001**, 94, 137-44	4.3	119
6	Suppression of potassium conductance by droperidol has influence on excitability of spinal sensory neurons. *Anesthesiology*, **2001**, 94, 280-9	4.3	21
5	Differential block of fast and slow inactivating tetrodotoxin-sensitive sodium channels by droperidol in spinal dorsal horn neurons. *Anesthesiology*, **2000**, 92, 1667-76	4.3	15
4	Block of neuronal tetrodotoxin-resistant Na+ currents by stereoisomers of piperidine local anesthetics. *Anesthesia and Analgesia*, **2000**, 91, 1499-505	3.9	29
3	Effect of bupivacaine on ATP-dependent potassium channels in rat cardiomyocytes. *British Journal of Anaesthesia*, **1999**, 82, 435-8	5.4	24
2	Blockade of Na+ and K+ currents by local anesthetics in the dorsal horn neurons of the spinal cord. *Anesthesiology*, **1998**, 88, 172-9	4.3	79
1	ATP-dependent potassium channel in rat cardiomyocytes is blocked by lidocaine. Possible impact on the antiarrhythmic action of lidocaine. *Circulation*, **1996**, 93, 656-9	16.7	36