

Norbert Weissmann

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

189
papers

11,358
citations

54
h-index

101
g-index

205
ext. papers

13,156
ext. citations

8.1
avg, IF

5.9
L-index

#	Paper	IF	Citations
189	Reversal of experimental pulmonary hypertension by PDGF inhibition. <i>Journal of Clinical Investigation</i> , 2005 , 115, 2811-21	15.9	764
188	Cellular and molecular basis of pulmonary arterial hypertension. <i>Journal of the American College of Cardiology</i> , 2009 , 54, S20-S31	15.1	609
187	Sildenafil for treatment of lung fibrosis and pulmonary hypertension: a randomised controlled trial. <i>Lancet, The</i> , 2002 , 360, 895-900	40	590
186	Nox4 is a protective reactive oxygen species generating vascular NADPH oxidase. <i>Circulation Research</i> , 2012 , 110, 1217-25	15.7	452
185	Nox family NADPH oxidases: Molecular mechanisms of activation. <i>Free Radical Biology and Medicine</i> , 2014 , 76, 208-26	7.8	417
184	Post-stroke inhibition of induced NADPH oxidase type 4 prevents oxidative stress and neurodegeneration. <i>PLoS Biology</i> , 2010 , 8, e1000479	9.7	324
183	Hypoxia-dependent regulation of nonphagocytic NADPH oxidase subunit NOX4 in the pulmonary vasculature. <i>Circulation Research</i> , 2007 , 101, 258-67	15.7	279
182	Classical transient receptor potential channel 6 (TRPC6) is essential for hypoxic pulmonary vasoconstriction and alveolar gas exchange. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 19093-8	11.5	247
181	Pulmonary hypertension in chronic lung disease and hypoxia. <i>European Respiratory Journal</i> , 2019 , 53,	13.6	231
180	Inducible NOS inhibition reverses tobacco-smoke-induced emphysema and pulmonary hypertension in mice. <i>Cell</i> , 2011 , 147, 293-305	56.2	226
179	Immune and inflammatory cell involvement in the pathology of idiopathic pulmonary arterial hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012 , 186, 897-908	10.2	219
178	NADPH oxidases in cardiovascular disease. <i>Free Radical Biology and Medicine</i> , 2010 , 49, 687-706	7.8	207
177	Chronic sildenafil treatment inhibits monocrotaline-induced pulmonary hypertension in rats. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2004 , 169, 39-45	10.2	207
176	Pro-proliferative and inflammatory signaling converge on FoxO1 transcription factor in pulmonary hypertension. <i>Nature Medicine</i> , 2014 , 20, 1289-300	50.5	183
175	Activation of soluble guanylate cyclase reverses experimental pulmonary hypertension and vascular remodeling. <i>Circulation</i> , 2006 , 113, 286-95	16.7	183
174	Inhibition of microRNA-17 improves lung and heart function in experimental pulmonary hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012 , 185, 409-19	10.2	171
173	Upregulation of NAD(P)H oxidase 1 in hypoxia activates hypoxia-inducible factor 1 via increase in reactive oxygen species. <i>Free Radical Biology and Medicine</i> , 2004 , 36, 1279-88	7.8	156

172	Long Noncoding RNA MANTIS Facilitates Endothelial Angiogenic Function. <i>Circulation</i> , 2017 , 136, 65-79	16.7	145
171	The Giessen Pulmonary Hypertension Registry: Survival in pulmonary hypertension subgroups. <i>Journal of Heart and Lung Transplantation</i> , 2017 , 36, 957-967	5.8	138
170	Activation of TRPC6 channels is essential for lung ischaemia-reperfusion induced oedema in mice. <i>Nature Communications</i> , 2012 , 3, 649	17.4	137
169	Essential role of complex II of the respiratory chain in hypoxia-induced ROS generation in the pulmonary vasculature. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2003 , 284, L710-9	5.8	132
168	Combined tyrosine and serine/threonine kinase inhibition by sorafenib prevents progression of experimental pulmonary hypertension and myocardial remodeling. <i>Circulation</i> , 2008 , 118, 2081-90	16.7	121
167	Phosphodiesterase 1 upregulation in pulmonary arterial hypertension: target for reverse-remodeling therapy. <i>Circulation</i> , 2007 , 115, 2331-9	16.7	118
166	Oxygen-dependent expression of cytochrome c oxidase subunit 4-2 gene expression is mediated by transcription factors RBPJ, CXXC5 and CHCHD2. <i>Nucleic Acids Research</i> , 2013 , 41, 2255-66	20.1	110
165	NOX4 regulates ROS levels under normoxic and hypoxic conditions, triggers proliferation, and inhibits apoptosis in pulmonary artery adventitial fibroblasts. <i>Antioxidants and Redox Signaling</i> , 2008 , 10, 1687-98	8.4	108
164	Epoxyeicosatrienoic acids and the soluble epoxide hydrolase are determinants of pulmonary artery pressure and the acute hypoxic pulmonary vasoconstrictor response. <i>FASEB Journal</i> , 2008 , 22, 4306-15	0.9	96
163	Antiremodeling effects of iloprost and the dual-selective phosphodiesterase 3/4 inhibitor tolafentrine in chronic experimental pulmonary hypertension. <i>Circulation Research</i> , 2004 , 94, 1101-8	15.7	86
162	Oxygen sensing and signal transduction in hypoxic pulmonary vasoconstriction. <i>European Respiratory Journal</i> , 2016 , 47, 288-303	13.6	84
161	Impact of mitochondria and NADPH oxidases on acute and sustained hypoxic pulmonary vasoconstriction. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2006 , 34, 505-13	5.7	83
160	Expression profiling of laser-microdissected intrapulmonary arteries in hypoxia-induced pulmonary hypertension. <i>Respiratory Research</i> , 2005 , 6, 109	7.3	80
159	Identification of novel Nox4 splice variants with impact on ROS levels in A549 cells. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 329, 32-9	3.4	79
158	Hypoxic vasoconstriction in intact lungs: a role for NADPH oxidase-derived H ₂ O ₂ ?. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2000 , 279, L683-90	5.8	75
157	Lysyl oxidases play a causal role in vascular remodeling in clinical and experimental pulmonary arterial hypertension. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 1446-58	9.4	74
156	In vivo TRPC functions in the cardiopulmonary vasculature. <i>Cell Calcium</i> , 2007 , 42, 233-44	4	73
155	Fhl-1, a new key protein in pulmonary hypertension. <i>Circulation</i> , 2008 , 118, 1183-94	16.7	71

154	Cellular and molecular mechanisms of hypoxia-inducible factor driven vascular remodeling. <i>Thrombosis and Haemostasis</i> , 2007 , 97, 774-787	7	71
153	cDNA array hybridization after laser-assisted microdissection from nonneoplastic tissue. <i>American Journal of Pathology</i> , 2002 , 160, 81-90	5.8	71
152	Redox-mediated signal transduction by cardiovascular Nox NADPH oxidases. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 73, 70-9	5.8	70
151	Pathophysiology and treatment of high-altitude pulmonary vascular disease. <i>Circulation</i> , 2015 , 131, 582-90	10.7	70
150	Riociguat for the treatment of pulmonary hypertension. <i>Expert Opinion on Investigational Drugs</i> , 2011 , 20, 567-76	5.9	69
149	Low-dose systemic phosphodiesterase inhibitors amplify the pulmonary vasodilatory response to inhaled prostacyclin in experimental pulmonary hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1999 , 160, 1500-6	10.2	68
148	Hypoxia-induced pulmonary hypertension: comparison of soluble epoxide hydrolase deletion vs. inhibition. <i>Cardiovascular Research</i> , 2010 , 85, 232-40	9.9	64
147	Novel and emerging therapies for pulmonary hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014 , 189, 394-400	10.2	62
146	Physiologic basis for the treatment of pulmonary hypertension. <i>Translational Research</i> , 2001 , 138, 287-97		62
145	Hypoxic vasoconstriction in buffer-perfused rabbit lungs. <i>Respiration Physiology</i> , 1995 , 100, 159-69		61
144	Hypoxia induces Kv channel current inhibition by increased NADPH oxidase-derived reactive oxygen species. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 1033-42	7.8	60
143	Stimulation of soluble guanylate cyclase prevents cigarette smoke-induced pulmonary hypertension and emphysema. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014 , 189, 1359-73	10.2	59
142	Mitochondrial Complex IV Subunit 4 Isoform 2 Is Essential for Acute Pulmonary Oxygen Sensing. <i>Circulation Research</i> , 2017 , 121, 424-438	15.7	58
141	Classical transient receptor potential channel 1 in hypoxia-induced pulmonary hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013 , 188, 1451-9	10.2	58
140	ASK1 Inhibition Halts Disease Progression in Preclinical Models of Pulmonary Arterial Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 197, 373-385	10.2	57
139	Function of NADPH oxidase 1 in pulmonary arterial smooth muscle cells after monocrotaline-induced pulmonary vascular remodeling. <i>Antioxidants and Redox Signaling</i> , 2013 , 19, 2213-31	8.4	57
138	Effects of hypercapnia with and without acidosis on hypoxic pulmonary vasoconstriction. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009 , 297, L977-83	5.8	57
137	Notch1 signalling regulates endothelial proliferation and apoptosis in pulmonary arterial hypertension. <i>European Respiratory Journal</i> , 2016 , 48, 1137-1149	13.6	57

136	Inhaled iloprost reverses vascular remodeling in chronic experimental pulmonary hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005 , 172, 358-63	10.2	55
135	Dysregulation of the IL-13 receptor system: a novel pathomechanism in pulmonary arterial hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2010 , 182, 805-18	10.2	54
134	Cytochrome c oxidase subunit 4 isoform 2-knockout mice show reduced enzyme activity, airway hyporeactivity, and lung pathology. <i>FASEB Journal</i> , 2012 , 26, 3916-30	0.9	53
133	NO and reactive oxygen species are involved in biphasic hypoxic vasoconstriction of isolated rabbit lungs. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2001 , 280, L638-45	5.8	53
132	PAR-2 inhibition reverses experimental pulmonary hypertension. <i>Circulation Research</i> , 2012 , 110, 1179-91	5.7	52
131	Nox family NADPH oxidases in mechano-transduction: mechanisms and consequences. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 887-98	8.4	51
130	Endothelin-1 inhibits background two-pore domain channel TASK-1 in primary human pulmonary artery smooth muscle cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009 , 41, 476-83	5.7	51
129	Intermedin/adrenomedullin-2 is a hypoxia-induced endothelial peptide that stabilizes pulmonary microvascular permeability. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009 , 297, L837-45	5.8	51
128	Basic features of hypoxic pulmonary vasoconstriction in mice. <i>Respiratory Physiology and Neurobiology</i> , 2004 , 139, 191-202	2.8	51
127	Mitochondrial hyperpolarization in pulmonary vascular remodeling. Mitochondrial uncoupling protein deficiency as disease model. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013 , 49, 358-67	5.7	50
126	Impact of HIF-1alpha and HIF-2alpha on proliferation and migration of human pulmonary artery fibroblasts in hypoxia. <i>FASEB Journal</i> , 2006 , 20, 163-5	0.9	50
125	Effects of mitochondrial inhibitors and uncouplers on hypoxic vasoconstriction in rabbit lungs. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2003 , 29, 721-32	5.7	50
124	Oxygen sensors in hypoxic pulmonary vasoconstriction. <i>Cardiovascular Research</i> , 2006 , 71, 620-9	9.9	49
123	Coaerosolization of phosphodiesterase inhibitors markedly enhances the pulmonary vasodilatory response to inhaled iloprost in experimental pulmonary hypertension. Maintenance of lung selectivity. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001 , 164, 1694-700	10.2	49
122	p38 MAPK Inhibition Improves Heart Function in Pressure-Loaded Right Ventricular Hypertrophy. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017 , 57, 603-614	5.7	48
121	Identification of right heart-enriched genes in a murine model of chronic outflow tract obstruction. <i>Journal of Molecular and Cellular Cardiology</i> , 2010 , 49, 598-605	5.8	47
120	Diacylglycerol regulates acute hypoxic pulmonary vasoconstriction via TRPC6. <i>Respiratory Research</i> , 2011 , 12, 20	7.3	44
119	Amplified canonical transforming growth factor- β signalling heat shock protein 90 in pulmonary fibrosis. <i>European Respiratory Journal</i> , 2017 , 49,	13.6	43

118	Hypoxia-dependent reactive oxygen species signaling in the pulmonary circulation: focus on ion channels. <i>Antioxidants and Redox Signaling</i> , 2015 , 22, 537-52	8.4	41
117	Organizers and activators: Cytosolic Nox proteins impacting on vascular function. <i>Free Radical Biology and Medicine</i> , 2017 , 109, 22-32	7.8	41
116	Arterial hypertension in a murine model of sleep apnea: role of NADPH oxidase 2. <i>Journal of Hypertension</i> , 2014 , 32, 300-5	1.9	41
115	Inactivation of sestrin 2 induces TGF-beta signaling and partially rescues pulmonary emphysema in a mouse model of COPD. <i>DMM Disease Models and Mechanisms</i> , 2010 , 3, 246-53	4.1	40
114	Unchanged NADPH Oxidase Activity in Nox1-Nox2-Nox4 Triple Knockout Mice: What Do NADPH-Stimulated Chemiluminescence Assays Really Detect?. <i>Antioxidants and Redox Signaling</i> , 2016 , 24, 392-9	8.4	39
113	Targeting cyclin-dependent kinases for the treatment of pulmonary arterial hypertension. <i>Nature Communications</i> , 2019 , 10, 2204	17.4	39
112	Hypoxic pulmonary hypertension in mice with constitutively active platelet-derived growth factor receptor- β . <i>Pulmonary Circulation</i> , 2011 , 1, 259-68	2.7	38
111	Molecular mechanisms of hypoxia-inducible factor-induced pulmonary arterial smooth muscle cell alterations in pulmonary hypertension. <i>Journal of Physiology</i> , 2016 , 594, 1167-77	3.9	37
110	Sildenafil in hypoxic pulmonary hypertension potentiates a compensatory up-regulation of NO-cGMP signaling. <i>FASEB Journal</i> , 2008 , 22, 30-40	0.9	36
109	Hypoxia- and non-hypoxia-related pulmonary hypertension - established and new therapies. <i>Cardiovascular Research</i> , 2006 , 72, 30-40	9.9	36
108	BDNF/TrkB signaling augments smooth muscle cell proliferation in pulmonary hypertension. <i>American Journal of Pathology</i> , 2012 , 181, 2018-29	5.8	35
107	A RASSF1A-HIF1 β loop drives Warburg effect in cancer and pulmonary hypertension. <i>Nature Communications</i> , 2019 , 10, 2130	17.4	34
106	Endothelin-1 driven proliferation of pulmonary arterial smooth muscle cells is c-fos dependent. <i>International Journal of Biochemistry and Cell Biology</i> , 2014 , 54, 137-48	5.6	34
105	Heme oxygenase-2 and large-conductance Ca ²⁺ -activated K ⁺ channels: lung vascular effects of hypoxia. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009 , 180, 353-64	10.2	34
104	Shear force sensing of epithelial Na channel (ENaC) relies on -glycosylated asparagines in the palm and knuckle domains of ENaC. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 717-726	11.5	34
103	Evidence for a role of protein kinase C in hypoxic pulmonary vasoconstriction. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1999 , 276, L90-5	5.8	33
102	The soluble guanylate cyclase activator HMR1766 reverses hypoxia-induced experimental pulmonary hypertension in mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009 , 297, L658-65	5.8	32
101	Characterization of a murine model of monocrotaline pyrrole-induced acute lung injury. <i>BMC Pulmonary Medicine</i> , 2008 , 8, 25	3.5	31

100	Acute O sensing through HIF2-dependent expression of atypical cytochrome oxidase subunits in arterial chemoreceptors. <i>Science Signaling</i> , 2020 , 13,	8.8	30
99	Pressure overload leads to an increased accumulation and activity of mast cells in the right ventricle. <i>Physiological Reports</i> , 2017 , 5, e13146	2.6	30
98	Impact of the mitochondria-targeted antioxidant MitoQ on hypoxia-induced pulmonary hypertension. <i>European Respiratory Journal</i> , 2018 ,	13.6	30
97	Combination of nonspecific PDE inhibitors with inhaled prostacyclin in experimental pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2001 , 281, L1361-8	5.8	30
96	Effects of multikinase inhibitors on pressure overload-induced right ventricular remodeling. <i>International Journal of Cardiology</i> , 2013 , 167, 2630-7	3.2	29
95	The Role of Transient Receptor Potential Channel 6 Channels in the Pulmonary Vasculature. <i>Frontiers in Immunology</i> , 2017 , 8, 707	8.4	29
94	Redox signaling and reactive oxygen species in hypoxic pulmonary vasoconstriction. <i>Respiratory Physiology and Neurobiology</i> , 2010 , 174, 282-91	2.8	29
93	Effects of phosphodiesterase 4 inhibition on bleomycin-induced pulmonary fibrosis in mice. <i>BMC Pulmonary Medicine</i> , 2010 , 10, 26	3.5	29
92	Downregulation of hypoxic vasoconstriction by chronic hypoxia in rabbits: effects of nitric oxide. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 284, H931-8	5.2	29
91	Congenital erythropoietin over-expression causes "anti-pulmonary hypertensive" structural and functional changes in mice, both in normoxia and hypoxia. <i>Thrombosis and Haemostasis</i> , 2005 , 94, 630-8	7	29
90	Pressure Overload Creates Right Ventricular Diastolic Dysfunction in a Mouse Model: Assessment by Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2015 , 28, 828-43	5.8	28
89	Hypoxia-inducible factor signaling in pulmonary hypertension. <i>Journal of Clinical Investigation</i> , 2020 , 130, 5638-5651	15.9	28
88	Detection of reactive oxygen species in isolated, perfused lungs by electron spin resonance spectroscopy. <i>Respiratory Research</i> , 2005 , 6, 86	7.3	27
87	Inflammatory Mediators Drive Adverse Right Ventricular Remodeling and Dysfunction and Serve as Potential Biomarkers. <i>Frontiers in Physiology</i> , 2018 , 9, 609	4.6	26
86	Histological characterization of mast cell chymase in patients with pulmonary hypertension and chronic obstructive pulmonary disease. <i>Pulmonary Circulation</i> , 2014 , 4, 128-36	2.7	26
85	Structural and functional prevention of hypoxia-induced pulmonary hypertension by individualized exercise training in mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014 , 306, L986-95	5.8	25
84	Lung vasodilatory response to inhaled iloprost in experimental pulmonary hypertension: amplification by different type phosphodiesterase inhibitors. <i>Respiratory Research</i> , 2005 , 6, 76	7.3	25
83	Evidence for the Fucoidan/P-Selectin Axis as a Therapeutic Target in Hypoxia-induced Pulmonary Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 199, 1407-1420	10.2	25

82	Nestin-expressing vascular wall cells drive development of pulmonary hypertension. <i>European Respiratory Journal</i> , 2016 , 47, 876-88	13.6	24
81	Hypoxia-induced pulmonary hypertension: different impact of iloprost, sildenafil, and nitric oxide. <i>Respiratory Medicine</i> , 2007 , 101, 2125-32	4.6	24
80	Cigarette Smoke-Induced Emphysema and Pulmonary Hypertension Can Be Prevented by Phosphodiesterase 4 and 5 Inhibition in Mice. <i>PLoS ONE</i> , 2015 , 10, e0129327	3.7	24
79	Increased S100A4 expression in the vasculature of human COPD lungs and murine model of smoke-induced emphysema. <i>Respiratory Research</i> , 2015 , 16, 127	7.3	23
78	Paxillin regulates pulmonary arterial smooth muscle cell function in pulmonary hypertension. <i>American Journal of Pathology</i> , 2012 , 181, 1621-33	5.8	23
77	CRISPR/Cas9-mediated knockout of p22phox leads to loss of Nox1 and Nox4, but not Nox5 activity. <i>Redox Biology</i> , 2016 , 9, 287-295	11.3	23
76	Nitric oxide (NO)-dependent but not NO-independent guanylate cyclase activation attenuates hypoxic vasoconstriction in rabbit lungs. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2000 , 23, 222-7	5.7	22
75	Alternative Oxidase Attenuates Cigarette Smoke-induced Lung Dysfunction and Tissue Damage. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019 , 60, 515-522	5.7	21
74	Soluble guanylate cyclase stimulator riociguat and phosphodiesterase 5 inhibitor sildenafil ameliorate pulmonary hypertension due to left heart disease in mice. <i>International Journal of Cardiology</i> , 2016 , 216, 85-91	3.2	20
73	Urodilatin, a natriuretic peptide stimulating particulate guanylate cyclase, and the phosphodiesterase 5 inhibitor dipyridamole attenuate experimental pulmonary hypertension: synergism upon coapplication. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2001 , 25, 219-25	5.7	20
72	Nitro blue tetrazolium inhibits but does not mimic hypoxic vasoconstriction in isolated rabbit lungs. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1998 , 274, L721-7	5.8	20
71	Direct eicosanoid profiling of the hypoxic lung by comprehensive analysis via capillary liquid chromatography with dual online photodiode-array and tandem mass-spectrometric detection. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 697-714	4.4	19
70	Alveolar epithelial barrier functions in ventilated perfused rabbit lungs. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2001 , 280, L896-904	5.8	19
69	Cigarette smoke causes acute airway disease and exacerbates chronic obstructive lung disease in neonatal mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016 , 311, L602-10	5.8	19
68	Pulmonary hypertension in chronic obstructive pulmonary disease. <i>British Journal of Pharmacology</i> , 2021 , 178, 132-151	8.6	19
67	Functional and muscular adaptations in an experimental model for isometric strength training in mice. <i>PLoS ONE</i> , 2013 , 8, e79069	3.7	18
66	Bypassing mitochondrial complex III using alternative oxidase inhibits acute pulmonary oxygen sensing. <i>Science Advances</i> , 2020 , 6, eaba0694	14.3	18
65	Oxidative injury of the pulmonary circulation in the perinatal period: Short- and long-term consequences for the human cardiopulmonary system. <i>Pulmonary Circulation</i> , 2017 , 7, 55-66	2.7	17

64	NADPH oxidases-do they play a role in TRPC regulation under hypoxia?. <i>Pflugers Archiv European Journal of Physiology</i> , 2016 , 468, 23-41	4.6	17
63	Impact of S-adenosylmethionine decarboxylase 1 on pulmonary vascular remodeling. <i>Circulation</i> , 2014 , 129, 1510-23	16.7	17
62	Effects of hypercapnia and NO synthase inhibition in sustained hypoxic pulmonary vasoconstriction. <i>Respiratory Research</i> , 2012 , 13, 7	7.3	17
61	Novel soluble guanylyl cyclase stimulator BAY 41-2272 attenuates ischemia-reperfusion-induced lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009 , 296, L462-9	5.8	17
60	The Cytosolic NADPH Oxidase Subunit NoxO1 Promotes an Endothelial Stalk Cell Phenotype. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, 1558-65	9.4	16
59	Mitochondrial complex II is essential for hypoxia-induced pulmonary vasoconstriction of intra- but not of pre-acinar arteries. <i>Cardiovascular Research</i> , 2012 , 93, 702-10	9.9	16
58	Pathobiology, pathology and genetics of pulmonary hypertension: Update from the Cologne Consensus Conference 2018. <i>International Journal of Cardiology</i> , 2018 , 272S, 4-10	3.2	16
57	Riociguat for treatment of pulmonary hypertension in COPD: a translational study. <i>European Respiratory Journal</i> , 2019 , 53,	13.6	15
56	Hypoxia- or PDGF-BB-dependent paxillin tyrosine phosphorylation in pulmonary hypertension is reversed by HIF-1 α depletion or imatinib treatment. <i>Thrombosis and Haemostasis</i> , 2014 , 112, 1288-303	7	15
55	Effects of dimethylarginine dimethylaminohydrolase-1 overexpression on the response of the pulmonary vasculature to hypoxia. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013 , 49, 491-500	5.7	15
54	Effects of arachidonic acid metabolism on hypoxic vasoconstriction in rabbit lungs. <i>European Journal of Pharmacology</i> , 1998 , 356, 231-7	5.3	15
53	TRPV4 channels are essential for alveolar epithelial barrier function as protection from lung edema. <i>JCI Insight</i> , 2020 , 5,	9.9	15
52	Sestrin 2 protein regulates platelet-derived growth factor receptor α expression by modulating proteasomal and Nrf2 transcription factor functions. <i>Journal of Biological Chemistry</i> , 2015 , 290, 9738-52	5.4	14
51	FHL-1 is not involved in pressure overload-induced maladaptive right ventricular remodeling and dysfunction. <i>Basic Research in Cardiology</i> , 2020 , 115, 17	11.8	14
50	Cofilin, a hypoxia-regulated protein in murine lungs identified by 2DE: role of the cytoskeletal protein cofilin in pulmonary hypertension. <i>Proteomics</i> , 2013 , 13, 75-88	4.8	14
49	Lung Ischaemia-Reperfusion Injury: The Role of Reactive Oxygen Species. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 967, 195-225	3.6	13
48	Nebulization of the acidified sodium nitrite formulation attenuates acute hypoxic pulmonary vasoconstriction. <i>Respiratory Research</i> , 2010 , 11, 81	7.3	11
47	The PDE inhibitor zaprinast enhances NO-mediated protection against vascular leakage in reperfused lungs. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2000 , 279, L496-502	5.8	11

46	Targeting Jak-Stat Signaling in Experimental Pulmonary Hypertension. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2021 , 64, 100-114	5.7	10
45	Resolvin E1 Improves Mitochondrial Function in Human Alveolar Epithelial Cells during Severe Inflammation. <i>Lipids</i> , 2019 , 54, 53-65	1.6	9
44	Lung epithelium damage in COPD - An unstoppable pathological event?. <i>Cellular Signalling</i> , 2020 , 68, 109540	4.9	9
43	Recent advances in oxygen sensing and signal transduction in hypoxic pulmonary vasoconstriction. <i>Journal of Applied Physiology</i> , 2017 , 123, 1647-1656	3.7	8
42	Ltbp4 regulates Pdgfr α expression via TGF β dependent modulation of Nrf2 transcription factor function. <i>Matrix Biology</i> , 2017 , 59, 109-120	11.4	8
41	Animal models of pulmonary hypertension: role in translational research. <i>Drug Discovery Today: Disease Models</i> , 2010 , 7, 89-97	1.3	8
40	Prostanoids and phosphodiesterase inhibitors in experimental pulmonary hypertension. <i>Current Topics in Developmental Biology</i> , 2005 , 67, 251-84	5.3	8
39	Hypoxic Pulmonary Vasoconstriction triggered by an Increase in Reactive Oxygen Species?. <i>Novartis Foundation Symposium</i> , 196-213		8
38	Effects of carbon monoxide-releasing molecules on pulmonary vasoreactivity in isolated perfused lungs. <i>Journal of Applied Physiology</i> , 2016 , 120, 271-81	3.7	7
37	Measurement of exhaled hydrogen peroxide from rabbit lungs. <i>Biological Chemistry</i> , 2004 , 385, 259-64	4.5	7
36	Chronic Obstructive Pulmonary Disease and the Cardiovascular System: Vascular Repair and Regeneration as a Therapeutic Target. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 649512	5.4	7
35	Pulmonary Hypertension in Acute and Chronic High Altitude Maladaptation Disorders. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	7
34	Hypoxic pulmonary vasoconstriction in isolated mouse pulmonary arterial vessels. <i>Experimental Physiology</i> , 2018 , 103, 1185-1191	2.4	7
33	Hypoxic pulmonary vasoconstriction--triggered by an increase in reactive oxygen species?. <i>Novartis Foundation Symposium</i> , 2006 , 272, 196-208; discussion 208-17		7
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