Norbert Weissmann

List of Publications by Year
in descending order

200 papers	14,536 citations	20759 60 h-index	22102 113 g-index
205 all docs	205 docs citations	205 times ranked	14357 citing authors

#	Article	IF	Citations
1	Reversal of experimental pulmonary hypertension by PDGF inhibition. Journal of Clinical Investigation, 2005, 115, 2811-2821.	3.9	917
2	Sildenafil for treatment of lung fibrosis and pulmonary hypertension: a randomised controlled trial. Lancet, The, 2002, 360, 895-900.	6.3	720
3	Cellular and Molecular Basis of Pulmonary Arterial Hypertension. Journal of the American College of Cardiology, 2009, 54, S20-S31.	1.2	714
4	Nox family NADPH oxidases: Molecular mechanisms of activation. Free Radical Biology and Medicine, 2014, 76, 208-226.	1.3	546
5	Nox4 Is a Protective Reactive Oxygen Species Generating Vascular NADPH Oxidase. Circulation Research, 2012, 110, 1217-1225.	2.0	540
6	Pulmonary hypertension in chronic lung disease and hypoxia. European Respiratory Journal, 2019, 53, 1801914.	3.1	428
7	Post-Stroke Inhibition of Induced NADPH Oxidase Type 4 Prevents Oxidative Stress and Neurodegeneration. PLoS Biology, 2010, 8, e1000479.	2.6	377
8	Hypoxia-Dependent Regulation of Nonphagocytic NADPH Oxidase Subunit NOX4 in the Pulmonary Vasculature. Circulation Research, 2007, 101, 258-267.	2.0	317
9	Immune and Inflammatory Cell Involvement in the Pathology of Idiopathic Pulmonary Arterial Hypertension. American Journal of Respiratory and Critical Care Medicine, 2012, 186, 897-908.	2.5	296
10	Inducible NOS Inhibition Reverses Tobacco-Smoke-Induced Emphysema and Pulmonary Hypertension in Mice. Cell, 2011, 147, 293-305.	13.5	293
11	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, 19093-19098.	3.3	273
12	NADPH oxidases in cardiovascular disease. Free Radical Biology and Medicine, 2010, 49, 687-706.	1.3	241
13	Pro-proliferative and inflammatory signaling converge on FoxO1 transcription factor in pulmonary hypertension. Nature Medicine, 2014, 20, 1289-1300.	15.2	233
14	Chronic Sildenafil Treatment Inhibits Monocrotaline-induced Pulmonary Hypertension in Rats. American Journal of Respiratory and Critical Care Medicine, 2004, 169, 39-45.	2.5	230
15	The Giessen Pulmonary Hypertension Registry: Survival in pulmonary hypertension subgroups. Journal of Heart and Lung Transplantation, 2017, 36, 957-967.	0.3	221
16	Activation of Soluble Guanylate Cyclase Reverses Experimental Pulmonary Hypertension and Vascular Remodeling. Circulation, 2006, 113, 286-295.	1.6	208
17	Inhibition of MicroRNA-17 Improves Lung and Heart Function in Experimental Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2012, 185, 409-419.	2.5	206
18	Long Noncoding RNA MANTIS Facilitates Endothelial Angiogenic Function. Circulation, 2017, 136, 65-79.	1.6	196

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19	Upregulation of NAD(P)H oxidase 1 in hypoxia activates hypoxia-inducible factor 1 via increase in reactive oxygen species. Free Radical Biology and Medicine, 2004, 36, 1279-1288.	1.3	183
20	Activation of TRPC6 channels is essential for lung ischaemiaâ€“reperfusion induced oedema in mice. Nature Communications, 2012, 3, 649.	5.8	162
21	Essential role of complex II of the respiratory chain in hypoxia-induced ROS generation in the pulmonary vasculature. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2003, 284, L710-L719.	1.3	148
22	Oxygen-dependent expression of cytochrome c oxidase subunit 4-2 gene expression is mediated by transcription factors RBPJ, CXXC5 and CHCHD2. Nucleic Acids Research, 2013, 41, 2255-2266.	6.5	146
23	Phosphodiesterase 1 Upregulation in Pulmonary Arterial Hypertension. Circulation, 2007, 115, 2331-2339.	1.6	139
24	Combined Tyrosine and Serine/Threonine Kinase Inhibition by Sorafenib Prevents Progression of Experimental Pulmonary Hypertension and Myocardial Remodeling. Circulation, 2008, 118, 2081-2090.	1.6	139
25	Oxygen sensing and signal transduction in hypoxic pulmonary vasoconstriction. European Respiratory Journal, 2016, 47, 288-303.	3.1	120
26	NOX4 Regulates ROS Levels Under Normoxic and Hypoxic Conditions, Triggers Proliferation, and Inhibits Apoptosis in Pulmonary Artery Adventitial Fibroblasts. Antioxidants and Redox Signaling, 2008, 10, 1687-1698.	2.5	118
27	Pathophysiology and Treatment of High-Altitude Pulmonary Vascular Disease. Circulation, 2015, 131, 582-590.	1.6	108
28	Hypoxia-inducible factor signaling in pulmonary hypertension. Journal of Clinical Investigation, 2020, 130, 5638-5651.	3.9	104
29	Epoxyeicosatrienoic acids and the soluble epoxide hydrolase are determinants of pulmonary artery pressure and the acute hypoxic pulmonary vasoconstrictor response. FASEB Journal, 2008, 22, 4306-4315.	0.2	100
30	Expression profiling of laser-microdissected intrapulmonary arteries in hypoxia-induced pulmonary hypertension. Respiratory Research, 2005, 6, 109.	1.4	99
31	Antiremodeling Effects of Iloprost and the Dual-Selective Phosphodiesterase 3/4 Inhibitor Tolafentrine in Chronic Experimental Pulmonary Hypertension. Circulation Research, 2004, 94, 1101-1108.	2.0	97
32	Lysyl Oxidases Play a Causal Role in Vascular Remodeling in Clinical and Experimental Pulmonary Arterial Hypertension. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1446-1458.	1.1	97
33	Impact of Mitochondria and NADPH Oxidases on Acute and Sustained Hypoxic Pulmonary Vasoconstriction. American Journal of Respiratory Cell and Molecular Biology, 2006, 34, 505-513.	1.4	90
34	Mitochondrial Complex IV Subunit 4 Isoform 2 Is Essential for Acute Pulmonary Oxygen Sensing. Circulation Research, 2017, 121, 424-438.	2.0	90
35	Notch1 signalling regulates endothelial proliferation and apoptosis in pulmonary arterial hypertension. European Respiratory Journal, 2016, 48, 1137-1149.	3.1	89
36	Identification of novel Nox4 splice variants with impact on ROS levels in A549 cells. Biochemical and Biophysical Research Communications, 2005, 329, 32-39.	1.0	88

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37	Hypoxic vasoconstriction in intact lungs: a role for NADPH oxidase-derived H₂O₂?. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 279, L683-L690.	1.3	87
38	In vivo TRPC functions in the cardiopulmonary vasculature. Cell Calcium, 2007, 42, 233-244.	1.1	84
39	Physiologic basis for the treatment of pulmonary hypertension. Translational Research, 2001, 138, 287-297.	2.4	81
40	Cellular and molecular mechanisms of hypoxia-inducible factor driven vascular remodeling. Thrombosis and Haemostasis, 2007, 97, 774-787.	1.8	81
41	Riociguat for the treatment of pulmonary hypertension. Expert Opinion on Investigational Drugs, 2011, 20, 567-576.	1.9	81
42	Redox-mediated signal transduction by cardiovascular Nox NADPH oxidases. Journal of Molecular and Cellular Cardiology, 2014, 73, 70-79.	0.9	81
43	Stimulation of Soluble Guanylate Cyclase Prevents Cigarette Smokeâ€“induced Pulmonary Hypertension and Emphysema. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 1359-1373.	2.5	80
44	Fhl-1, a New Key Protein in Pulmonary Hypertension. Circulation, 2008, 118, 1183-1194.	1.6	79
45	ASK1 Inhibition Halts Disease Progression in Preclinical Models of Pulmonary Arterial Hypertension. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 373-385.	2.5	78
46	Classical Transient Receptor Potential Channel 1 in Hypoxia-induced Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2013, 188, 1451-1459.	2.5	77
47	A RASSF1A-HIF1Î± loop drives Warburg effect in cancer and pulmonary hypertension. Nature Communications, 2019, 10, 2130.	5.8	77
48	cDNA Array Hybridization after Laser-Assisted Microdissection from Nonneoplastic Tissue. American Journal of Pathology, 2002, 160, 81-90.	1.9	75
49	Novel and Emerging Therapies for Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 394-400.	2.5	75
50	Low-dose Systemic Phosphodiesterase Inhibitors Amplify the Pulmonary Vasodilatory Response to Inhaled Prostacyclin in Experimental Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 1999, 160, 1500-1506.	2.5	73
51	p38 MAPK Inhibition Improves Heart Function in Pressure-Loaded Right Ventricular Hypertrophy. American Journal of Respiratory Cell and Molecular Biology, 2017, 57, 603-614.	1.4	72
52	Hypoxic vasoconstriction in buffer-perfused rabbit lungs. Respiration Physiology, 1995, 100, 159-169.	2.8	71
53	Targeting cyclin-dependent kinases for the treatment of pulmonary arterial hypertension. Nature Communications, 2019, 10, 2204.	5.8	69
54	Hypoxia induces Kv channel current inhibition by increased NADPH oxidase-derived reactive oxygen species. Free Radical Biology and Medicine, 2012, 52, 1033-1042.	1.3	68

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55	Nox Family NADPH Oxidases in Mechano-Transduction: Mechanisms and Consequences. Antioxidants and Redox Signaling, 2014, 20, 887-898.	2.5	68
56	Hypoxia-induced pulmonary hypertension: comparison of soluble epoxide hydrolase deletion vs. inhibition. Cardiovascular Research, 2010, 85, 232-240.	1.8	66
57	Mitochondrial Hyperpolarization in Pulmonary Vascular Remodeling. Mitochondrial Uncoupling Protein Deficiency as Disease Model. American Journal of Respiratory Cell and Molecular Biology, 2013, 49, 358-367.	1.4	66
58	Amplified canonical transforming growth factor-Î² signalling <i>via</i> heat shock protein 90 in pulmonary fibrosis. European Respiratory Journal, 2017, 49, 1501941.	3.1	66
59	Impact of the mitochondria-targeted antioxidant MitoQ on hypoxia-induced pulmonary hypertension. European Respiratory Journal, 2018, 51, 1701024.	3.1	64
60	Inhaled Iloprost Reverses Vascular Remodeling in Chronic Experimental Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2005, 172, 358-363.	2.5	62
61	Cytochrome<i>c</i>oxidase subunit 4 isoform 2â€knockout mice show reduced enzyme activity, airway hyporeactivity, and lung pathology. FASEB Journal, 2012, 26, 3916-3930.	0.2	62
62	Function of NADPH Oxidase 1 in Pulmonary Arterial Smooth Muscle Cells After Monocrotaline-Induced Pulmonary Vascular Remodeling. Antioxidants and Redox Signaling, 2013, 19, 2213-2231.	2.5	62
63	Oxygen sensors in hypoxic pulmonary vasoconstriction. Cardiovascular Research, 2006, 71, 620-629.	1.8	61
64	PAR-2 Inhibition Reverses Experimental Pulmonary Hypertension. Circulation Research, 2012, 110, 1179-1191.	2.0	61
65	Effects of hypercapnia with and without acidosis on hypoxic pulmonary vasoconstriction. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 297, L977-L983.	1.3	60
66	Acute O ₂ sensing through HIF2Î±-dependent expression of atypical cytochrome oxidase subunits in arterial chemoreceptors. Science Signaling, 2020, 13, .	1.6	60
67	NO and reactive oxygen species are involved in biphasic hypoxic vasoconstriction of isolated rabbit lungs. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2001, 280, L638-L645.	1.3	59
68	Intermedin/adrenomedullin-2 is a hypoxia-induced endothelial peptide that stabilizes pulmonary microvascular permeability. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 297, L837-L845.	1.3	59
69	Dysregulation of the IL-13 Receptor System. A Novel Pathomechanism in Pulmonary Arterial Hypertension. American Journal of Respiratory and Critical Care Medicine, 2010, 182, 805-818.	2.5	59
70	Basic features of hypoxic pulmonary vasoconstriction in mice. Respiratory Physiology and Neurobiology, 2004, 139, 191-202.	0.7	58
71	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, 476-483.	1.4	58
72	Organizers and activators: Cytosolic Nox proteins impacting on vascular function. Free Radical Biology and Medicine, 2017, 109, 22-32.	1.3	58

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73	Molecular mechanisms of hypoxiaâ€inducible factorâ€induced pulmonary arterial smooth muscle cell alterations in pulmonary hypertension. Journal of Physiology, 2016, 594, 1167-1177.	1.3	57
74	Identification of right heart-enriched genes in a murine model of chronic outflow tract obstruction. Journal of Molecular and Cellular Cardiology, 2010, 49, 598-605.	0.9	56
75	Coaerosolization of Phosphodiesterase Inhibitors Markedly Enhances the Pulmonary Vasodilatory Response to Inhaled Iloprost in Experimental Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2001, 164, 1694-1700.	2.5	54
76	Impact of HIFâ€1Î± and HIFâ€2Î± on proliferation and migration of human pulmonary artery fibroblasts in hypoxia. FASEB Journal, 2006, 20, 163-165.	0.2	52
77	Unchanged NADPH Oxidase Activity in Nox1-Nox2-Nox4 Triple Knockout Mice: What Do NADPH-Stimulated Chemiluminescence Assays Really Detect?. Antioxidants and Redox Signaling, 2016, 24, 392-399.	2.5	52
78	Effects of Mitochondrial Inhibitors and Uncouplers on Hypoxic Vasoconstriction in Rabbit Lungs. American Journal of Respiratory Cell and Molecular Biology, 2003, 29, 721-732.	1.4	51
79	Diacylglycerol regulates acute hypoxic pulmonary vasoconstriction via TRPC6. Respiratory Research, 2011, 12, 20.	1.4	51
80	Pulmonary hypertension in chronic obstructive pulmonary disease. British Journal of Pharmacology, 2021, 178, 132-151.	2.7	51
81	Hypoxia-Dependent Reactive Oxygen Species Signaling in the Pulmonary Circulation: Focus on Ion Channels. Antioxidants and Redox Signaling, 2015, 22, 537-552.	2.5	50
82	Hypoxia- and non-hypoxia-related pulmonary hypertension â€" Established and new therapies. Cardiovascular Research, 2006, 72, 30-40.	1.8	49
83	Inactivation of sestrin 2 induces TGF-Î² signaling and partially rescues pulmonary emphysema in a mouse model of COPD. DMM Disease Models and Mechanisms, 2010, 3, 246-253.	1.2	49
84	Shear force sensing of epithelial Na ⁺ channel (ENaC) relies on <i>N</i> -glycosylated asparagines in the palm and knuckle domains of Î±ENaC. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 717-726.	3.3	49
85	Arterial hypertension in a murine model of sleep apnea. Journal of Hypertension, 2014, 32, 300-305.	0.3	47
86	Hypoxic Pulmonary Hypertension in Mice with Constitutively Active Plateletâ€Derived Growth Factor Receptorâ€Î². Pulmonary Circulation, 2011, 1, 259-268.	0.8	44
87	Evidence for a role of protein kinase C in hypoxic pulmonary vasoconstriction. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1999, 276, L90-L95.	1.3	43
88	BDNF/TrkB Signaling Augments Smooth Muscle Cell Proliferation in Pulmonary Hypertension. American Journal of Pathology, 2012, 181, 2018-2029.	1.9	43
89	Pulmonary Hypertension in Acute and Chronic High Altitude Maladaptation Disorders. International Journal of Environmental Research and Public Health, 2021, 18, 1692.	1.2	43
90	Inflammatory Mediators Drive Adverse Right Ventricular Remodeling and Dysfunction and Serve as Potential Biomarkers. Frontiers in Physiology, 2018, 9, 609.	1.3	42

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91	Endothelin-1 driven proliferation of pulmonary arterial smooth muscle cells is c-fos dependent. International Journal of Biochemistry and Cell Biology, 2014, 54, 137-148.	1.2	41
92	Hypoxic pulmonary vasoconstriction: a multifactorial response?. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2001, 281, L314-L317.	1.3	40
93	The Role of Transient Receptor Potential Channel 6 Channels in the Pulmonary Vasculature. Frontiers in Immunology, 2017, 8, 707.	2.2	39
94	Evidence for the Fucoidan/P-Selectin Axis as a Therapeutic Target in Hypoxia-induced Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 1407-1420.	2.5	39
95	Bypassing mitochondrial complex III using alternative oxidase inhibits acute pulmonary oxygen sensing. Science Advances, 2020, 6, eaba0694.	4.7	39
96	Effects of phosphodiesterase 4 inhibition on bleomycin-induced pulmonary fibrosis in mice. BMC Pulmonary Medicine, 2010, 10, 26.	0.8	38
97	Combination of nonspecific PDE inhibitors with inhaled prostacyclin in experimental pulmonary hypertension. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2001, 281, L1361-L1368.	1.3	37
98	Heme Oxygenase-2 and Large-Conductance Ca2+-activated K+Channels. American Journal of Respiratory and Critical Care Medicine, 2009, 180, 353-364.	2.5	37
99	Alternative Oxidase Attenuates Cigarette Smokeâ€"induced Lung Dysfunction and Tissue Damage. American Journal of Respiratory Cell and Molecular Biology, 2019, 60, 515-522.	1.4	37
100	Targeting Jakâ€"Stat Signaling in Experimental Pulmonary Hypertension. American Journal of Respiratory Cell and Molecular Biology, 2021, 64, 100-114.	1.4	37
101	Characterization of a murine model of monocrotaline pyrrole-induced acute lung injury. BMC Pulmonary Medicine, 2008, 8, 25.	0.8	36
102	Sildenafil in hypoxic pulmonary hypertension potentiates a compensatory upâ€regulation of NOâ€cGMP signaling. FASEB Journal, 2008, 22, 30-40.	0.2	36
103	Histological Characterization of Mast Cell Chymase in Patients with Pulmonary Hypertension and Chronic Obstructive Pulmonary Disease. Pulmonary Circulation, 2014, 4, 128-136.	0.8	36
104	Pressure overload leads to an increased accumulation and activity of mast cells in the right ventricle. Physiological Reports, 2017, 5, e13146.	0.7	36
105	The soluble guanylate cyclase activator HMR1766 reverses hypoxia-induced experimental pulmonary hypertension in mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 297, L658-L665.	1.3	35
106	Redox signaling and reactive oxygen species in hypoxic pulmonary vasoconstriction. Respiratory Physiology and Neurobiology, 2010, 174, 282-291.	0.7	35
107	Effects of multikinase inhibitors on pressure overload-induced right ventricular remodeling. International Journal of Cardiology, 2013, 167, 2630-2637.	0.8	35
108	Altered fibrin clot structure and dysregulated fibrinolysis contribute toÂthrombosis risk in severe COVID-19. Blood Advances, 2022, 6, 1074-1087.	2.5	35

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109	Downregulation of hypoxic vasoconstriction by chronic hypoxia in rabbits: effects of nitric oxide. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H931-H938.	1.5	34
110	Pressure Overload Creates Right Ventricular Diastolic Dysfunction in a Mouse Model: Assessment by Echocardiography. Journal of the American Society of Echocardiography, 2015, 28, 828-843.	1.2	33
111	CRISPR/Cas9-mediated knockout of p22phox leads to loss of Nox1 and Nox4, but not Nox5 activity. Redox Biology, 2016, 9, 287-295.	3.9	33
112	Nestin-expressing vascular wall cells drive development of pulmonary hypertension. European Respiratory Journal, 2016, 47, 876-888.	3.1	33
113	Detection of reactive oxygen species in isolated, perfused lungs by electron spin resonance spectroscopy. Respiratory Research, 2005, 6, 86.	1.4	32
114	Increased S100A4 expression in the vasculature of human COPD lungs and murine model of smoke-induced emphysema. Respiratory Research, 2015, 16, 127.	1.4	32
115	Congenital erythropoietin over-expression causes â€œanti-pulmonary hypertensiveâ€•structural and functional changes in mice, both in normoxia and hypoxia. Thrombosis and Haemostasis, 2005, 94, 630-638.	1.8	31
116	Lung vasodilatory response to inhaled iloprost in experimental pulmonary hypertension: amplification by different type phosphodiesterase inhibitors. Respiratory Research, 2005, 6, 76.	1.4	31
117	Structural and functional prevention of hypoxia-induced pulmonary hypertension by individualized exercise training in mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 306, L986-L995.	1.3	31
118	Lung Ischaemiaâ€"Reperfusion Injury: The Role of Reactive Oxygen Species. Advances in Experimental Medicine and Biology, 2017, 967, 195-225.	0.8	29
119	Cigarette Smoke-Induced Emphysema and Pulmonary Hypertension Can Be Prevented by Phosphodiesterase 4 and 5 Inhibition in Mice. PLoS ONE, 2015, 10, e0129327.	1.1	29
120	Soluble guanylate cyclase stimulator riociguat and phosphodiesterase 5 inhibitor sildenafil ameliorate pulmonary hypertension due to left heart disease in mice. International Journal of Cardiology, 2016, 216, 85-91.	0.8	28
121	TRPV4 channels are essential for alveolar epithelial barrier function as protection from lung edema. JCI Insight, 2020, 5, .	2.3	28
122	Hypoxia-induced pulmonary hypertension: Different impact of iloprost, sildenafil, and nitric oxide. Respiratory Medicine, 2007, 101, 2125-2132.	1.3	27
123	Paxillin Regulates Pulmonary Arterial Smooth Muscle Cell Function in Pulmonary Hypertension. American Journal of Pathology, 2012, 181, 1621-1633.	1.9	27
124	Lung epithelium damage in COPD â€" An unstoppable pathological event?. Cellular Signalling, 2020, 68, 109540.	1.7	27
125	The Cytosolic NADPH Oxidase Subunit NoxO1 Promotes an Endothelial Stalk Cell Phenotype. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1558-1565.	1.1	26
126	Pathobiology, pathology and genetics of pulmonary hypertension: Update from the Cologne Consensus Conference 2018. International Journal of Cardiology, 2018, 272, 4-10.	0.8	26

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127	Riociguat for treatment of pulmonary hypertension in COPD: a translational study. European Respiratory Journal, 2019, 53, 1802445.	3.1	25
128	Nitro blue tetrazolium inhibits but does not mimic hypoxic vasoconstriction in isolated rabbit lungs. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1998, 274, L721-L727.	1.3	24
129	Nitric Oxide (NO)â€"Dependent but Not NO-Independent Guanylate Cyclase Activation Attenuates Hypoxic Vasoconstriction in Rabbit Lungs. American Journal of Respiratory Cell and Molecular Biology, 2000, 23, 222-227.	1.4	24
130	Oxidative injury of the pulmonary circulation in the perinatal period: Shortâ€•and longâ€ŧerm consequences for the human cardiopulmonary system. Pulmonary Circulation, 2017, 7, 55-66.	0.8	24
131	Alveolar epithelial barrier functions in ventilated perfused rabbit lungs. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2001, 280, L896-L904.	1.3	23
132	Direct eicosanoid profiling of the hypoxic lung by comprehensive analysis via capillary liquid chromatography with dual online photodiode-array and tandem mass-spectrometric detection. Analytical and Bioanalytical Chemistry, 2008, 390, 697-714.	1.9	23
133	Impact of S-Adenosylmethionine Decarboxylase 1 on Pulmonary Vascular Remodeling. Circulation, 2014, 129, 1510-1523.	1.6	23
134	NADPH oxidase subunit NOXO1 is a target for emphysema treatment in COPD. Nature Metabolism, 2020, 2, 532-546.	5.1	23
135	Chronic Obstructive Pulmonary Disease and the Cardiovascular System: Vascular Repair and Regeneration as a Therapeutic Target. Frontiers in Cardiovascular Medicine, 2021, 8, 649512.	1.1	23
136	Urodilatin, a Natriuretic Peptide Stimulating Particulate Guanylate Cyclase, and the Phosphodiesterase 5 Inhibitor Dipyridamole Attenuate Experimental Pulmonary Hypertension. American Journal of Respiratory Cell and Molecular Biology, 2001, 25, 219-225.	1.4	22
137	Cigarette smoke causes acute airway disease and exacerbates chronic obstructive lung disease in neonatal mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 311, L602-L610.	1.3	22
138	SPARC, a Novel Regulator of Vascular Cell Function in Pulmonary Hypertension. Circulation, 2022, 145, 916-933.	1.6	21
139	Novel soluble guanylyl cyclase stimulator BAY 41-2272 attenuates ischemia-reperfusion-induced lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 296, L462-L469.	1.3	20
140	Mitochondrial complex II is essential for hypoxia-induced pulmonary vasoconstriction of intra- but not of pre-acinar arteries. Cardiovascular Research, 2012, 93, 702-710.	1.8	20
141	Effects of hypercapnia and NO synthase inhibition in sustained hypoxic pulmonary vasoconstriction. Respiratory Research, 2012, 13, 7.	1.4	20
142	Functional and Muscular Adaptations in an Experimental Model for Isometric Strength Training in Mice. PLoS ONE, 2013, 8, e79069.	1.1	20
143	NADPH oxidasesâ€"do they play a role in TRPC regulation under hypoxia?. Pflugers Archiv European Journal of Physiology, 2016, 468, 23-41.	1.3	19
144	Hypoxia- or PDGF-BB-dependent paxillin tyrosine phosphorylation in pulmonary hypertension is reversed by HIF-1Î± depletion or imatinib treatment. Thrombosis and Haemostasis, 2014, 112, 1288-1303.	1.8	18

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145	Effects of Dimethylarginine Dimethylaminohydrolaseâ€"1 Overexpression on the Response of the Pulmonary Vasculature to Hypoxia. American Journal of Respiratory Cell and Molecular Biology, 2013, 49, 491-500.	1.4	17
146	Sestrin 2 Protein Regulates Platelet-derived Growth Factor Receptor Î² (PdgfrÎ²) Expression by Modulating Proteasomal and Nrf2 Transcription Factor Functions. Journal of Biological Chemistry, 2015, 290, 9738-9752.	1.6	17
147	FHL-1 is not involved in pressure overload-induced maladaptive right ventricular remodeling and dysfunction. Basic Research in Cardiology, 2020, 115, 17.	2.5	17
148	Amelioration of elastaseâ€induced lung emphysema and reversal of pulmonary hypertension by pharmacological iNOS inhibition in mice. British Journal of Pharmacology, 2021, 178, 152-171.	2.7	17
149	Effects of arachidonic acid metabolism on hypoxic vasoconstriction in rabbit lungs. European Journal of Pharmacology, 1998, 356, 231-237.	1.7	16
150	Cofilin, a hypoxiaâ€regulated protein in murine lungs identified by 2<scp>DE</scp>: Role of the cytoskeletal protein cofilin in pulmonary hypertension. Proteomics, 2013, 13, 75-88.	1.3	16
151	Impairment of hypoxic pulmonary vasoconstriction in acute respiratory distress syndrome. European Respiratory Review, 2021, 30, 210059.	3.0	16
152	Resolvin E1 Improves Mitochondrial Function in Human Alveolar Epithelial Cells during Severe Inflammation. Lipids, 2019, 54, 53-65.	0.7	15
153	Hypoxic pulmonary vasoconstriction in isolated mouse pulmonary arterial vessels. Experimental Physiology, 2018, 103, 1185-1191.	0.9	14
154	Nebulization of the acidified sodium nitrite formulation attenuates acute hypoxic pulmonary vasoconstriction. Respiratory Research, 2010, 11, 81.	1.4	13
155	Deletion of NoxO1 limits atherosclerosis development in female mice. Redox Biology, 2020, 37, 101713.	3.9	13
156	Flow Cytometry-Based Quantification of Neutrophil Extracellular Traps Shows an Association with Hypercoagulation in Septic Shock and Hypocoagulation in Postsurgical Systemic Inflammationâ€"A Proof-of-Concept Study. Journal of Clinical Medicine, 2020, 9, 174.	1.0	13
157	Myeloid-cell-specific deletion of inducible nitric oxide synthase protects against smoke-induced pulmonary hypertension in mice. European Respiratory Journal, 2022, 59, 2101153.	3.1	13
158	The PDE inhibitor zaprinast enhances NO-mediated protection against vascular leakage in reperfused lungs. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 279, L496-L502.	1.3	12
159	Recent advances in oxygen sensing and signal transduction in hypoxic pulmonary vasoconstriction. Journal of Applied Physiology, 2017, 123, 1647-1656.	1.2	12
160	Hypoxic Pulmonary Vasoconstriction-Triggered by an Increase in Reactive Oxygen Species?. Novartis Foundation Symposium, 0, , 196-213.	1.2	12
161	Animal models of pulmonary hypertension: role in translational research. Drug Discovery Today: Disease Models, 2010, 7, 89-97.	1.2	11
162	Ltbp4 regulates PdgfrÎ² expression via TGFÎ²-dependent modulation of Nrf2 transcription factor function. Matrix Biology, 2017, 59, 109-120.	1.5	11

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163	Lung developmental arrest caused by PDGF-A deletion: consequences for the adult mouse lung. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L831-L843.	1.3	11
164	Adenylate Kinase 4â€"A Key Regulator of Proliferation and Metabolic Shift in Human Pulmonary Arterial Smooth Muscle Cells via Akt and HIF-1Î± Signaling Pathways. International Journal of Molecular Sciences, 2021, 22, 10371.	1.8	11
165	Measurement of exhaled hydrogen peroxide from rabbit lungs. Biological Chemistry, 2004, 385, 259-264.	1.2	9
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