Ralph T Schermuly

List of Publications by Year
in descending order

201 papers	15,693 citations	19608 61 h-index	18606 119 g-index
206 all docs	206 docs citations	206 times ranked	13504 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	Pathology and pathobiology of pulmonary hypertension: state of the art and research perspectives. European Respiratory Journal, 2019, 53, 1801887.	3.1	776
3	Sildenafil for treatment of lung fibrosis and pulmonary hypertension: a randomised controlled trial. Lancet, The, 2002, 360, 895-900.	6.3	720
4	Inflammation, Growth Factors, and Pulmonary Vascular Remodeling. Journal of the American College of Cardiology, 2009, 54, S10-S19.	1.2	605
5	Mechanisms of disease: pulmonary arterial hypertension. Nature Reviews Cardiology, 2011, 8, 443-455.	6.1	605
6	Relevant Issues in the Pathology and Pathobiology of Pulmonary Hypertension. Journal of the American College of Cardiology, 2013, 62, D4-D12.	1.2	465
7	Combination Therapy with Oral Sildenafil and Inhaled Iloprost for Severe Pulmonary Hypertension. Annals of Internal Medicine, 2002, 136, 515.	2.0	446
8	Inhaled Prostacyclin and Iloprost in Severe Pulmonary Hypertension Secondary to Lung Fibrosis. American Journal of Respiratory and Critical Care Medicine, 1999, 160, 600-607.	2.5	369
9	Oral sildenafil as long-term adjunct therapy to inhaled iloprost in severe pulmonary arterial hypertension. Journal of the American College of Cardiology, 2003, 42, 158-164.	1.2	359
10	Hypoxia-Dependent Regulation of Nonphagocytic NADPH Oxidase Subunit NOX4 in the Pulmonary Vasculature. Circulation Research, 2007, 101, 258-267.	2.0	317
11	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
12	Inducible NOS Inhibition Reverses Tobacco-Smoke-Induced Emphysema and Pulmonary Hypertension in Mice. Cell, 2011, 147, 293-305.	13.5	293
13	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
14	Sildenafil for Long-Term Treatment of Nonoperable Chronic Thromboembolic Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2003, 167, 1139-1141.	2.5	265
15	Pro-proliferative and inflammatory signaling converge on FoxO1 transcription factor in pulmonary hypertension. Nature Medicine, 2014, 20, 1289-1300.	15.2	233
16	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
17	The Giessen Pulmonary Hypertension Registry: Survival in pulmonary hypertension subgroups. Journal of Heart and Lung Transplantation, 2017, 36, 957-967.	0.3	221
18	Two-Way Conversion between Lipogenic and Myogenic Fibroblastic Phenotypes Marks the Progression and Resolution of Lung Fibrosis. Cell Stem Cell, 2017, 20, 261-273.e3.	5.2	217

#	Article	IF	Citations
19	Activation of Soluble Guanylate Cyclase Reverses Experimental Pulmonary Hypertension and Vascular Remodeling. Circulation, 2006, 113, 286-295.	1.6	208
20	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
21	Long Noncoding RNA MANTIS Facilitates Endothelial Angiogenic Function. Circulation, 2017, 136, 65-79.	1.6	196
22	Metformin induces lipogenic differentiation in myofibroblasts to reverse lung fibrosis. Nature Communications, 2019, 10, 2987.	5.8	181
23	Prevention of Bleomycin-induced Lung Fibrosis by Aerosolization of Heparin or Urokinase in Rabbits. American Journal of Respiratory and Critical Care Medicine, 2003, 168, 1358-1365.	2.5	167
24	Activation of TRPC6 channels is essential for lung ischaemiaâ€“reperfusion induced oedema in mice. Nature Communications, 2012, 3, 649.	5.8	162
25	Increased levels and reduced catabolism of asymmetric and symmetric dimethylarginines in pulmonary hypertension. FASEB Journal, 2005, 19, 1175-1177.	0.2	158
26	Phosphodiesterase 1 Upregulation in Pulmonary Arterial Hypertension. Circulation, 2007, 115, 2331-2339.	1.6	139
27	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
28	Differences in hemodynamic and oxygenation responses to three different phosphodiesterase-5 inhibitors in patients with pulmonary arterial hypertension. Journal of the American College of Cardiology, 2004, 44, 1488-1496.	1.2	134
29	Dysregulated Bone Morphogenetic Protein Signaling in Monocrotaline-Induced Pulmonary Arterial Hypertension. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 1072-1078.	1.1	127
30	Targeting cancer with phosphodiesterase inhibitors. Expert Opinion on Investigational Drugs, 2010, 19, 117-131.	1.9	123
31	Prostacyclin and its analogues in the treatment of pulmonary hypertension. , 2004, 102, 139-153.		119
32	Targeting non-malignant disorders with tyrosine kinase inhibitors. Nature Reviews Drug Discovery, 2010, 9, 956-970.	21.5	118
33	Role of Epidermal Growth Factor Inhibition in Experimental Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2010, 181, 158-167.	2.5	118
34	Translating Research into Improved Patient Care in Pulmonary Arterial Hypertension. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 583-595.	2.5	113
35	Role of Src Tyrosine Kinases in Experimental Pulmonary Hypertension. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 1354-1365.	1.1	108
36	Pulmonary Vascular Remodeling Correlates with Lung Eggs and Cytokines in Murine Schistosomiasis. American Journal of Respiratory and Critical Care Medicine, 2010, 181, 279-288.	2.5	107

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37	The Soluble Guanylate Cyclase Stimulator Riociguat Ameliorates Pulmonary Hypertension Induced by Hypoxia and SU5416 in Rats. PLoS ONE, 2012, 7, e43433.	1.1	100
38	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
39	The Noncanonical WNT Pathway Is Operative in Idiopathic Pulmonary Arterial Hypertension. American Journal of Respiratory Cell and Molecular Biology, 2009, 40, 683-691.	1.4	93
40	Mitochondrial Complex IV Subunit 4 Isoform 2 Is Essential for Acute Pulmonary Oxygen Sensing. Circulation Research, 2017, 121, 424-438.	2.0	90
41	Mast Cells and Fibroblasts Work in Concert to Aggravate Pulmonary Fibrosis. American Journal of Pathology, 2013, 182, 2094-2108.	1.9	89
42	Notch1 signalling regulates endothelial proliferation and apoptosis in pulmonary arterial hypertension. European Respiratory Journal, 2016, 48, 1137-1149.	3.1	89
43	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
44	Role of the Prostanoid EP4 Receptor in Iloprost-mediated Vasodilatation in Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2008, 178, 188-196.	2.5	82
45	Riociguat for the treatment of pulmonary hypertension. Expert Opinion on Investigational Drugs, 2011, 20, 567-576.	1.9	81
46	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
47	Fhl-1, a New Key Protein in Pulmonary Hypertension. Circulation, 2008, 118, 1183-1194.	1.6	79
48	Riociguat: Mode of Action and Clinical Development in Pulmonary Hypertension. Chest, 2017, 151, 468-480.	0.4	79
49	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
50	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
51	Novel and Emerging Therapies for Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 394-400.	2.5	75
52	Hypoxia Enhances Platelet-derived Growth Factor Signaling in the Pulmonary Vasculature by Down-Regulation of Protein Tyrosine Phosphatases. American Journal of Respiratory and Critical Care Medicine, 2011, 183, 1092-1102.	2.5	73
53	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
54	Amplification of the pulmonary vasodilatory response to inhaled iloprost by subthreshold phosphodiesterase types 3 and 4 inhibition in severe pulmonary hypertension. Critical Care Medicine, 2002, 30, 2489-2492.	0.4	69

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55	Lung cancerâ€“associated pulmonary hypertension: Role of microenvironmental inflammation based on tumor cellâ€“immune cell cross-talk. Science Translational Medicine, 2017, 9, .	5.8	69
56	Targeting cyclin-dependent kinases for the treatment of pulmonary arterial hypertension. Nature Communications, 2019, 10, 2204.	5.8	69
57	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
58	Involvement of mast cells in monocrotaline-induced pulmonary hypertension in rats. Respiratory Research, 2011, 12, 60.	1.4	66
59	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
60	Amplified canonical transforming growth factor-Î² signalling via heat shock protein 90 in pulmonary fibrosis. European Respiratory Journal, 2017, 49, 1501941.	3.1	66
61	Deletion of Fn14 receptor protects from right heart fibrosis and dysfunction. Basic Research in Cardiology, 2013, 108, 325.	2.5	65
62	Sildenafil Potentiates Bone Morphogenetic Protein Signaling in Pulmonary Arterial Smooth Muscle Cells and in Experimental Pulmonary Hypertension. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 34-42.	1.1	64
63	Impact of the mitochondria-targeted antioxidant MitoQ on hypoxia-induced pulmonary hypertension. European Respiratory Journal, 2018, 51, 1701024.	3.1	64
64	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
65	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
66	5-HT2B Receptor Antagonists Inhibit Fibrosis and Protect from RV Heart Failure. BioMed Research International, 2015, 2015, 1-8.	0.9	62
67	PAR-2 Inhibition Reverses Experimental Pulmonary Hypertension. Circulation Research, 2012, 110, 1179-1191.	2.0	61
68	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
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	The Role of Dimethylarginine Dimethylaminohydrolase in Idiopathic Pulmonary Fibrosis. Science Translational Medicine, 2011, 03, 87ra53.	5.8	59
71	Loss of Secreted Frizzled-Related Protein-1 Leads to Deterioration of Cardiac Function in Mice and Plays a Role in Human Cardiomyopathy. Circulation: Heart Failure, 2015, 8, 362-372.	1.6	57
72	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

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73	Protective Effects of 10-nitro-oleic Acid in a Hypoxia-Induced Murine Model of Pulmonary Hypertension. American Journal of Respiratory Cell and Molecular Biology, 2014, 51, 155-162.	1.4	56
74	PDGF Receptor and its Antagonists: Role in Treatment of PAH. Advances in Experimental Medicine and Biology, 2010, 661, 435-446.	0.8	55
75	miR-223â€“IGF-IR signalling in hypoxia- and load-induced right-ventricular failure: a novel therapeutic approach. Cardiovascular Research, 2016, 111, 184-193.	1.8	54
76	Inhibition of the soluble epoxide hydrolase attenuates monocrotaline-induced pulmonary hypertension in rats. Journal of Hypertension, 2009, 27, 322-331.	0.3	52
77	Receptor for Activated C-Kinase 1, a Novel Interaction Partner of Type II Bone Morphogenetic Protein Receptor, Regulates Smooth Muscle Cell Proliferation in Pulmonary Arterial Hypertension. Circulation, 2007, 115, 2957-2968.	1.6	46
78	Eplerenone attenuates pathological pulmonary vascular rather than right ventricular remodeling in pulmonary arterial hypertension. BMC Pulmonary Medicine, 2018, 18, 41.	0.8	46
79	Chymase: a multifunctional player in pulmonary hypertension associated with lung fibrosis. European Respiratory Journal, 2015, 46, 1084-1094.	3.1	45
80	Hypoxic Pulmonary Hypertension in Mice with Constitutively Active PlateletâEDerived Growth Factor Receptorâ€Î². Pulmonary Circulation, 2011, 1, 259-268.	0.8	44
81	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
82	BDNF/TrkB Signaling Augments Smooth Muscle Cell Proliferation in Pulmonary Hypertension. American Journal of Pathology, 2012, 181, 2018-2029.	1.9	43
83	Pulmonary Hypertension in Acute and Chronic High Altitude Maladaptation Disorders. International Journal of Environmental Research and Public Health, 2021, 18, 1692.	1.2	43
84	Myeloperoxidase aggravates pulmonary arterial hypertension by activation of vascular Rho-kinase. JCI Insight, 2018, 3, .	2.3	43
85	cAMP Phosphodiesterase Inhibitors Increases Nitric Oxide Production by Modulating Dimethylarginine Dimethylaminohydrolases. Circulation, 2011, 123, 1194-1204.	1.6	42
86	Genetic Ablation of PDGF-Dependent Signaling Pathways Abolishes Vascular Remodeling and Experimental Pulmonary Hypertension. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1236-1245.	1.1	42
87	Inflammatory Mediators Drive Adverse Right Ventricular Remodeling and Dysfunction and Serve as Potential Biomarkers. Frontiers in Physiology, 2018, 9, 609.	1.3	42
88	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
89	Anticipated Classes of New Medications and Molecular Targets for Pulmonary Arterial Hypertension. Pulmonary Circulation, 2013, 3, 226-244.	0.8	40
90	The role of chemokines and chemokine receptors in pulmonary arterial hypertension. British Journal of Pharmacology, 2021, 178, 72-89.	2.7	40

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91	Inhibition of Overactive Transforming Growth Factorâ€“Î² Signaling by Prostacyclin Analogs in Pulmonary Arterial Hypertension. American Journal of Respiratory Cell and Molecular Biology, 2013, 48, 733-741.	1.4	39
92	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
93	Bypassing mitochondrial complex III using alternative oxidase inhibits acute pulmonary oxygen sensing. Science Advances, 2020, 6, eaba0694.	4.7	39
94	Effects of phosphodiesterase 4 inhibition on bleomycin-induced pulmonary fibrosis in mice. BMC Pulmonary Medicine, 2010, 10, 26.	0.8	38
95	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
96	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
97	Targeting Jakâ€“Stat Signaling in Experimental Pulmonary Hypertension. American Journal of Respiratory Cell and Molecular Biology, 2021, 64, 100-114.	1.4	37
98	Characterization of a murine model of monocrotaline pyrrole-induced acute lung injury. BMC Pulmonary Medicine, 2008, 8, 25.	0.8	36
99	Phosphodiesterase 10A Upregulation Contributes to Pulmonary Vascular Remodeling. PLoS ONE, 2011, 6, e18136.	1.1	36
100	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
101	Pressure overload leads to an increased accumulation and activity of mast cells in the right ventricle. Physiological Reports, 2017, 5, e13146.	0.7	36
102	Glycogen Synthase Kinase 3beta Contributes to Proliferation of Arterial Smooth Muscle Cells in Pulmonary Hypertension. PLoS ONE, 2011, 6, e18883.	1.1	36
103	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
104	Effects of multikinase inhibitors on pressure overload-induced right ventricular remodeling. International Journal of Cardiology, 2013, 167, 2630-2637.	0.8	35
105	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
106	Inhaled tolafentrine reverses pulmonary vascular remodeling via inhibition of smooth muscle cell migration. Respiratory Research, 2005, 6, 128.	1.4	34
107	Iloprost-induced desensitization of the prostacyclin receptor in isolated rabbit lungs. Respiratory Research, 2007, 8, 4.	1.4	34
108	The role of dimethylarginine dimethylaminohydrolase (<scp>DDAH</scp>) inÂpulmonary fibrosis. Journal of Pathology, 2013, 229, 242-249.	2.1	34

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109	Nestin-expressing vascular wall cells drive development of pulmonary hypertension. European Respiratory Journal, 2016, 47, 876-888.	3.1	33
110	Detection of reactive oxygen species in isolated, perfused lungs by electron spin resonance spectroscopy. Respiratory Research, 2005, 6, 86.	1.4	32
111	A role for coagulation factor Xa in experimental pulmonary arterial hypertension. Cardiovascular Research, 2011, 92, 159-168.	1.8	32
112	New potential diagnostic biomarkers for pulmonary hypertension. European Respiratory Journal, 2015, 46, 1390-1396.	3.1	32
113	Lung vasodilatory response to inhaled iloprost in experimental pulmonary hypertension: amplification by different type phosphodiesterase inhibitors. Respiratory Research, 2005, 6, 76.	1.4	31
114	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
115	Developmental vascular remodeling defects and postnatal kidney failure in mice lacking Gpr116 (Adgrf5) and Eltd1 (Adgrl4). PLoS ONE, 2017, 12, e0183166.	1.1	29
116	Effect of Riociguat and Sildenafil on Right Heart Remodeling and Function in Pressure Overload Induced Model of Pulmonary Arterial Banding. BioMed Research International, 2018, 2018, 1-9.	0.9	29
117	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
118	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
119	Hypoxia-induced pulmonary hypertension: Different impact of iloprost, sildenafil, and nitric oxide. Respiratory Medicine, 2007, 101, 2125-2132.	1.3	27
120	Lung epithelium damage in COPD â€“ An unstoppable pathological event?. Cellular Signalling, 2020, 68, 109540.	1.7	27
121	Effect of nitric oxide synthase (NOS) inhibition on macro- and microcirculation in a model of rat endotoxic shock. Thrombosis and Haemostasis, 2006, 95, 720-727.	1.8	26
122	The prognostic impact of thyroid function in pulmonary hypertension. Journal of Heart and Lung Transplantation, 2016, 35, 1427-1434.	0.3	25
123	Riociguat for treatment of pulmonary hypertension in COPD: a translational study. European Respiratory Journal, 2019, 53, 1802445.	3.1	25
124	Plasma MMP2/TIMP4 Ratio at Follow-up Assessment Predicts Disease Progression of Idiopathic Pulmonary Arterial Hypertension. Lung, 2017, 195, 489-496.	1.4	24
125	Oxidative injury of the pulmonary circulation in the perinatal period: Shortâ€•and longâ€term consequences for the human cardiopulmonary system. Pulmonary Circulation, 2017, 7, 55-66.	0.8	24
126	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

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127	Pharmacokinetics and Metabolism of Infused versus Inhaled Iloprost in Isolated Rabbit Lungs. Journal of Pharmacology and Experimental Therapeutics, 2002, 303, 741-745.	1.3	23
128	Impact of S-Adenosylmethionine Decarboxylase 1 on Pulmonary Vascular Remodeling. Circulation, 2014, 129, 1510-1523.	1.6	23
129	NADPH oxidase subunit NOXO1 is a target for emphysema treatment in COPD. Nature Metabolism, 2020, 2, 532-546.	5.1	23
130	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
131	Phosphodiesterase 6 subunits are expressed and altered in idiopathic pulmonary fibrosis. Respiratory Research, 2010, 11, 146.	1.4	22
132	Lipids - two sides of the same coin in lung fibrosis. Cellular Signalling, 2019, 60, 65-80.	1.7	22
133	A Molecular Mechanism for Therapeutic Effects of cGMP-elevating Agents in Pulmonary Arterial Hypertension. Journal of Biological Chemistry, 2013, 288, 16557-16566.	1.6	21
134	SPARC, a Novel Regulator of Vascular Cell Function in Pulmonary Hypertension. Circulation, 2022, 145, 916-933.	1.6	21
135	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
136	The Peroxisome Proliferatorâ€“Activated Receptor Î²/Î´ Agonist GW0742 has Direct Protective Effects on Right Heart Hypertrophy. Pulmonary Circulation, 2013, 3, 926-935.	0.8	20
137	LRP1 promotes synthetic phenotype of pulmonary artery smooth muscle cells in pulmonary hypertension. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 1604-1616.	1.8	20
138	Nitric Oxide Synthase 2 Induction Promotes Right Ventricular Fibrosis. American Journal of Respiratory Cell and Molecular Biology, 2019, 60, 346-356.	1.4	20
139	Prolonged vasodilatory response to nanoencapsulated sildenafil in pulmonary hypertension. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 63-68.	1.7	19
140	Mining the Plasma Proteome for Insights into the Molecular Pathology of Pulmonary Arterial Hypertension. American Journal of Respiratory and Critical Care Medicine, 2022, 205, 1449-1460.	2.5	19
141	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
142	Maintained right ventricular pressure overload induces ventriculararâ€“arterial decoupling in mice. Experimental Physiology, 2017, 102, 180-189.	0.9	18
143	Kinases as potential targets for treatment of pulmonary hypertension and right ventricular dysfunction. British Journal of Pharmacology, 2021, 178, 31-53.	2.7	18
144	Conebulization of surfactant and urokinase restores gas exchange in perfused lungs with alveolar fibrin formation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2001, 280, L792-L800.	1.3	17

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145	Comparison of Pharmacokinetics and Vasodilatory Effect of Nebulized and Infused Iloprost in Experimental Pulmonary Hypertension: Rapid Tolerance Development. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2006, 19, 353-363.	1.2	17
146	Therapeutic efficacy of TBC3711 in monocrotaline-induced pulmonary hypertension. Respiratory Research, 2011, 12, 87.	1.4	17
147	Nintedanib in Severe Pulmonary Arterial Hypertension. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 808-810.	2.5	17
148	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
149	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
150	Genetic Delivery and Gene Therapy in Pulmonary Hypertension. International Journal of Molecular Sciences, 2021, 22, 1179.	1.8	16
151	The F-BAR Protein NOSTRIN Dictates the Localization of the Muscarinic M3 Receptor and Regulates Cardiovascular Function. Circulation Research, 2015, 117, 460-469.	2.0	15
152	Profiling of human lymphocytes reveals a specific network of protein kinases modulated by endurance training status. Scientific Reports, 2020, 10, 888.	1.6	15
153	Mast cell chymase: an indispensable instrument in the pathological symphony of idiopathic pulmonary fibrosis?. Histology and Histopathology, 2013, 28, 691-9.	0.5	15
154	Phosphodiesterase 5 (PDE5) inhibition, ANP and NO rapidly reduce epididymal duct contractions, but long-term PDE5 inhibition in vivo does not. Molecular and Cellular Endocrinology, 2012, 349, 145-153.	1.6	14
155	Differential Alterations of the Mitochondrial Morphology and Respiratory Chain Complexes during Postnatal Development of the Mouse Lung. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-22.	1.9	14
156	Hypoxic pulmonary vasoconstriction in isolated mouse pulmonary arterial vessels. Experimental Physiology, 2018, 103, 1185-1191.	0.9	14
157	Is the fibroblast growth factor signaling pathway a victim of receptor tyrosine kinase inhibition in pulmonary parenchymal and vascular remodeling?. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2018, 315, L248-L252.	1.3	14
158	Endothelial actions of atrial natriuretic peptide prevent pulmonary hypertension in mice. Basic Research in Cardiology, 2016, 111, 22.	2.5	13
159	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
160	In Vivo Characterization of the Novel Imidazopyridine BYK191023 [2-[2-(4-Methoxy-pyridin-2-yl)-ethyl]-3H-imidazo[4,5-b]pyridine], a Potent and Highly Selective Inhibitor of Inducible Nitric-Oxide Synthase. Journal of Pharmacology and Experimental Therapeutics, 2006, 317, 181-187.	1.3	12
161	The Role of G Protein-Coupled Receptors in the Right Ventricle in Pulmonary Hypertension. Frontiers in Cardiovascular Medicine, 2018, 5, 179.	1.1	12
162	Depletion of Bone Marrow-Derived Fibrocytes Attenuates TAA-Induced Liver Fibrosis in Mice. Cells, 2019, 8, 1210.	1.8	12

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163	Disrupted PI3K subunit p110Î± signaling protects against pulmonary hypertension and reverses established disease in rodents. Journal of Clinical Investigation, 2021, 131, .	3.9	12
164	Hypoxic Pulmonary Vasoconstriction-Triggered by an Increase in Reactive Oxygen Species?. Novartis Foundation Symposium, 0, , 196-213.	1.2	12
165	Animal models of pulmonary hypertension: role in translational research. Drug Discovery Today: Disease Models, 2010, 7, 89-97.	1.2	11
166	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
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