

Stephen L Archer

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7710654/stephen-l-archer-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

159
papers

18,648
citations

66
h-index

136
g-index

169
ext. papers

21,533
ext. citations

9.6
avg, IF

6.85
L-index

#	Paper	IF	Citations
159	Using health administrative data to identify patients with pulmonary hypertension: A single center, proof of concept validation study in Ontario, Canada.. <i>Pulmonary Circulation</i> , 2022 , 12, e12040	2.7	
158	Inhibiting Pyruvate Kinase Muscle Isoform 2 Regresses Group 2 Pulmonary Hypertension Induced by Supra-coronary Aortic Banding.. <i>Acta Physiologica</i> , 2022 , e13764	5.6	1
157	The comprehensive transcriptome of human ductus arteriosus smooth muscle cells (hDASMC).. <i>Data in Brief</i> , 2022 , 40, 107736	1.2	
156	Anomalous Right Coronary Artery Arising From Distal Left Circumflex Artery.. <i>CJC Open</i> , 2022 , 4, 112-113		
155	Mitochondrial fission links ECM mechanotransduction to metabolic redox homeostasis and metastatic chemotherapy resistance.. <i>Nature Cell Biology</i> , 2022 , 24, 168-180	23.4	5
154	Inflammatory Glycoprotein 130 Signaling Links Changes in Microtubules and Junctophilin-2 to Altered Mitochondrial Metabolism and Right Ventricular Contractility.. <i>Circulation: Heart Failure</i> , 2021 , CIRCHEARTFAILURE121008574	7.6	1
153	Mitochondria in human neutrophils mediate killing of Staphylococcus aureus.. <i>Redox Biology</i> , 2021 , 49, 102225	11.3	3
152	Mitochondrial iron-sulfur clusters: Structure, function, and an emerging role in vascular biology. <i>Redox Biology</i> , 2021 , 47, 102164	11.3	11
151	Hemodynamic Characteristics and Outcomes of Pulmonary Hypertension in Patients Undergoing Tricuspid Valve Repair or Replacement. <i>CJC Open</i> , 2021 , 3, 488-497	2	0
150	Scientist on the Spot: Exploring the cause and cure for pulmonary arterial hypertension. <i>Cardiovascular Research</i> , 2021 , 117, e82-e83	9.9	
149	Left Main Coronary Artery Compression in Pulmonary Arterial Hypertension: Percutaneous Treatment to Improve Symptoms. <i>CJC Open</i> , 2021 , 3, 690-692	2	
148	Rare variant analysis of 4241 pulmonary arterial hypertension cases from an international consortium implicates FBLN2, PDGFD, and rare de novo variants in PAH. <i>Genome Medicine</i> , 2021 , 13, 80	14.4	11
147	Diagnosis and Treatment of Right Heart Failure in Pulmonary Vascular Diseases: A National Heart, Lung, and Blood Institute Workshop. <i>Circulation: Heart Failure</i> , 2021 , 14,	7.6	1
146	PINK1-induced phosphorylation of mitofusin 2 at serine 442 causes its proteasomal degradation and promotes cell proliferation in lung cancer and pulmonary arterial hypertension. <i>FASEB Journal</i> , 2021 , 35, e21771	0.9	2
145	Carvedilol for Treatment of Right Ventricular Dysfunction in Pulmonary Arterial Hypertension. <i>Journal of the American Heart Association</i> , 2021 , 10, e021518	6	
144	Oxygen sensing, mitochondrial biology and experimental therapeutics for pulmonary hypertension and cancer. <i>Free Radical Biology and Medicine</i> , 2021 , 170, 150-178	7.8	10
143	The molecular mechanisms of oxygen-sensing in human ductus arteriosus smooth muscle cells: A comprehensive transcriptome profile reveals a central role for mitochondria. <i>Genomics</i> , 2021 , 113, 3128-3140	4.3	3

142	Differentiating COVID-19 Pneumonia From Acute Respiratory Distress Syndrome and High Altitude Pulmonary Edema: Therapeutic Implications. <i>Circulation</i> , 2020 , 142, 101-104	16.7	92
141	Novel Mutations and Decreased Expression of the Epigenetic Regulator in Pulmonary Arterial Hypertension. <i>Circulation</i> , 2020 , 141, 1986-2000	16.7	28
140	Epigenetic Metabolic Reprogramming of Right Ventricular Fibroblasts in Pulmonary Arterial Hypertension: A Pyruvate Dehydrogenase Kinase-Dependent Shift in Mitochondrial Metabolism Promotes Right Ventricular Fibrosis. <i>Circulation Research</i> , 2020 , 126, 1723-1745	15.7	28
139	Mitochondria in the Pulmonary Vasculature in Health and Disease: Oxygen-Sensing, Metabolism, and Dynamics. <i>Comprehensive Physiology</i> , 2020 , 10, 713-765	7.7	21
138	Providing care for the 99.9% during the COVID-19 pandemic: How ethics, equity, epidemiology, and cost per QALY inform healthcare policy. <i>Healthcare Management Forum</i> , 2020 , 33, 239-242	1.7	5
137	Evaluation of the Impact of an Echocardiographic Diagnosis of Pulmonary Hypertension on Patient Outcomes. <i>CJC Open</i> , 2020 , 2, 328-336	2	3
136	Hypochloremia Is a Noninvasive Predictor of Mortality in Pulmonary Arterial Hypertension. <i>Journal of the American Heart Association</i> , 2020 , 9, e015221	6	7
135	An epigenetic increase in mitochondrial fission by MiD49 and MiD51 regulates the cell cycle in cancer: Diagnostic and therapeutic implications. <i>FASEB Journal</i> , 2020 , 34, 5106-5127	0.9	5
134	Supra-coronary aortic banding improves right ventricular function in experimental pulmonary arterial hypertension in rats by increasing systolic right coronary artery perfusion. <i>Acta Physiologica</i> , 2020 , 229, e13483	5.6	4
133	Clinical value of non-coding RNAs in cardiovascular, pulmonary, and muscle diseases. <i>American Journal of Physiology - Cell Physiology</i> , 2020 , 318, C1-C28	5.4	16
132	Identification of novel dynamin-related protein 1 (Drp1) GTPase inhibitors: Therapeutic potential of Drpitor1 and Drpitor1a in cancer and cardiac ischemia-reperfusion injury. <i>FASEB Journal</i> , 2020 , 34, 1447-1464	9.9	34
131	Suppression of Superoxide-Hydrogen Peroxide Production at Site IQ of Mitochondrial Complex I Attenuates Myocardial Stunning and Improves Postcardiac Arrest Outcomes. <i>Critical Care Medicine</i> , 2020 , 48, e133-e140	1.4	12
130	Endothelial Loss Drives a Proliferative Response to BMP (Bone Morphogenetic Protein) 9 via Prolonged Canonical Signaling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020 , 40, 2605-2618	9.4	11
129	Excess Protein O-GlcNAcylation Links Metabolic Derangements to Right Ventricular Dysfunction in Pulmonary Arterial Hypertension. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	6
128	Identification of Long Noncoding RNA H19 as a New Biomarker and Therapeutic Target in Right Ventricular Failure in Pulmonary Arterial Hypertension. <i>Circulation</i> , 2020 , 142, 1464-1484	16.7	46
127	Clinical Determinants and Prognostic Implications of Right Ventricular Dysfunction in Pulmonary Hypertension Caused by Chronic Lung Disease. <i>Journal of the American Heart Association</i> , 2019 , 8, e011464	6	21
126	Metabolic Syndrome Exacerbates Pulmonary Hypertension due to Left Heart Disease. <i>Circulation Research</i> , 2019 , 125, 449-466	15.7	45
125	Ndufs2, a Core Subunit of Mitochondrial Complex I, Is Essential for Acute Oxygen-Sensing and Hypoxic Pulmonary Vasoconstriction. <i>Circulation Research</i> , 2019 , 124, 1727-1746	15.7	38

124	Home Virtual Visits for Outpatient Follow-Up Stroke Care: Cross-Sectional Study. <i>Journal of Medical Internet Research</i> , 2019 , 21, e13734	7.6	26
123	Pathophysiology, incidence, management, and consequences of cardiac arrhythmia in pulmonary arterial hypertension and chronic thromboembolic pulmonary hypertension. <i>Pulmonary Circulation</i> , 2019 , 9, 2045894019834890	2.7	14
122	Response by Dunham-Snary and Archer to Letter Regarding Article, "Ndufs2, a Core Subunit of Mitochondrial Complex I, Is Essential for Acute Oxygen-Sensing and Hypoxic Pulmonary Vasoconstriction". <i>Circulation Research</i> , 2019 , 125, e35-e36	15.7	
121	Genetic determinants of risk in pulmonary arterial hypertension: international genome-wide association studies and meta-analysis. <i>Lancet Respiratory Medicine</i> , 2019 , 7, 227-238	35.1	55
120	Repurposing Medications for Treatment of Pulmonary Arterial Hypertension: What's Old Is New Again. <i>Journal of the American Heart Association</i> , 2019 , 8, e011343	6	31
119	Survival in pulmonary hypertension due to chronic lung disease: Influence of low diffusion capacity of the lungs for carbon monoxide. <i>Journal of Heart and Lung Transplantation</i> , 2019 , 38, 145-155	5.8	26
118	Biventricular Increases in Mitochondrial Fission Mediator (MiD51) and Proglycolytic Pyruvate Kinase (PKM2) Isoform in Experimental Group 2 Pulmonary Hypertension-Novel Mitochondrial Abnormalities. <i>Frontiers in Cardiovascular Medicine</i> , 2018 , 5, 195	5.4	11
117	Epigenetic Dysregulation of the Dynamin-Related Protein 1 Binding Partners MiD49 and MiD51 Increases Mitotic Mitochondrial Fission and Promotes Pulmonary Arterial Hypertension: Mechanistic and Therapeutic Implications. <i>Circulation</i> , 2018 , 138, 287-304	16.7	62
116	Increasing Incidence and Prevalence of World Health Organization Groups 1 to 4 Pulmonary Hypertension: A Population-Based Cohort Study in Ontario, Canada. <i>Circulation: Cardiovascular Quality and Outcomes</i> , 2018 , 11, e003973	5.8	95
115	Pulmonary arterial hypertension: pathogenesis and clinical management. <i>BMJ, The</i> , 2018 , 360, j5492	5.9	312
114	Standards and Methodological Rigor in Pulmonary Arterial Hypertension Preclinical and Translational Research. <i>Circulation Research</i> , 2018 , 122, 1021-1032	15.7	89
113	Interleukin-6 is independently associated with right ventricular function in pulmonary arterial hypertension. <i>Journal of Heart and Lung Transplantation</i> , 2018 , 37, 376-384	5.8	46
112	A pro-con debate: current controversies in PAH pathogenesis at the American Thoracic Society International Conference in 2017. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018 , 315, L502-L516	5.8	9
111	Increased Drp1-Mediated Mitochondrial Fission Promotes Proliferation and Collagen Production by Right Ventricular Fibroblasts in Experimental Pulmonary Arterial Hypertension. <i>Frontiers in Physiology</i> , 2018 , 9, 828	4.6	27
110	Assessment of Right Ventricular Function in the Research Setting: Knowledge Gaps and Pathways Forward. An Official American Thoracic Society Research Statement. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 198, e15-e43	10.2	105
109	Models and Molecular Mechanisms of World Health Organization Group 2 to 4 Pulmonary Hypertension. <i>Hypertension</i> , 2018 , 71, 34-55	8.5	11
108	Left Atrial Stenosis Induced Pulmonary Venous Arterialization and Group 2 Pulmonary Hypertension in Rat. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	2
107	Transcriptomic Signature of Right Ventricular Failure in Experimental Pulmonary Arterial Hypertension: Deep Sequencing Demonstrates Mitochondrial, Fibrotic, Inflammatory and Angiogenic Abnormalities. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	26

106	Ischemia-induced Drp1 and Fis1-mediated mitochondrial fission and right ventricular dysfunction in pulmonary hypertension. <i>Journal of Molecular Medicine</i> , 2017 , 95, 381-393	5.5	55
105	Colchicine Depolymerizes Microtubules, Increases Junctophilin-2, and Improves Right Ventricular Function in Experimental Pulmonary Arterial Hypertension. <i>Journal of the American Heart Association</i> , 2017 , 6,	6	32
104	Metabolic heterogeneity of idiopathic pulmonary fibrosis: a metabolomic study. <i>BMJ Open Respiratory Research</i> , 2017 , 4, e000183	5.6	84
103	Resistance over compliance describes right ventricular afterload better than resistance-compliance time: a friendly amendment. <i>Pulmonary Circulation</i> , 2017 , 7, 275	2.7	
102	MicroRNA-138 and MicroRNA-25 Down-regulate Mitochondrial Calcium Uniporter, Causing the Pulmonary Arterial Hypertension Cancer Phenotype. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017 , 195, 515-529	10.2	98
101	Hypoxic Pulmonary Vasoconstriction: From Molecular Mechanisms to Medicine. <i>Chest</i> , 2017 , 151, 181-193	3	177
100	A mitochondrial redox oxygen sensor in the pulmonary vasculature and ductus arteriosus. <i>Pflugers Archiv European Journal of Physiology</i> , 2016 , 468, 43-58	4.6	23
99	Trends and Outcomes of Pulmonary Arterial Hypertension-Related Hospitalizations in the United States: Analysis of the Nationwide Inpatient Sample Database From 2001 Through 2012. <i>JAMA Cardiology</i> , 2016 , 1, 1021-1029	16.2	51
98	Acquired Mitochondrial Abnormalities, Including Epigenetic Inhibition of Superoxide Dismutase 2, in Pulmonary Hypertension and Cancer: Therapeutic Implications. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 903, 29-53	3.6	22
97	Critical Genomic Networks and Vasoreactive Variants in Idiopathic Pulmonary Arterial Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016 , 194, 464-75	10.2	52
96	Pulmonary pulse wave transit time is associated with right ventricular-pulmonary artery coupling in pulmonary arterial hypertension. <i>Pulmonary Circulation</i> , 2016 , 6, 576-585	2.7	18
95	Executive Summary of the American Heart Association and American Thoracic Society Joint Guidelines for Pediatric Pulmonary Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016 , 194, 898-906	10.2	20
94	The role of Drp1 adaptor proteins MiD49 and MiD51 in mitochondrial fission: implications for human disease. <i>Clinical Science</i> , 2016 , 130, 1861-74	6.5	55
93	Inhibition of the mitochondrial fission protein dynamin-related protein 1 improves survival in a murine cardiac arrest model. <i>Critical Care Medicine</i> , 2015 , 43, e38-47	1.4	58
92	Emerging concepts in the molecular basis of pulmonary arterial hypertension: part I: metabolic plasticity and mitochondrial dynamics in the pulmonary circulation and right ventricle in pulmonary arterial hypertension. <i>Circulation</i> , 2015 , 131, 1691-702	16.7	120
91	Right ventricular adaptation and failure in pulmonary arterial hypertension. <i>Canadian Journal of Cardiology</i> , 2015 , 31, 391-406	3.8	98
90	Pediatric Pulmonary Hypertension: Guidelines From the American Heart Association and American Thoracic Society. <i>Circulation</i> , 2015 , 132, 2037-99	16.7	624
89	Gone fission: an asymptomatic STAT2 mutation elongates mitochondria and causes human disease following viral infection. <i>Brain</i> , 2015 , 138, 2802-6	11.2	6

88	Mitochondrial dynamics in pulmonary arterial hypertension. <i>Journal of Molecular Medicine</i> , 2015 , 93, 229-42	5.5	86
87	Peripheral blood signature of vasodilator-responsive pulmonary arterial hypertension. <i>Circulation</i> , 2015 , 131, 401-9; discussion 409	16.7	60
86	SIRT3 deacetylates and activates OPA1 to regulate mitochondrial dynamics during stress. <i>Molecular and Cellular Biology</i> , 2014 , 34, 807-19	4.8	250
85	Activation of the EGFR/p38/JNK pathway by mitochondrial-derived hydrogen peroxide contributes to oxygen-induced contraction of ductus arteriosus. <i>Journal of Molecular Medicine</i> , 2014 , 92, 995-1007	5.5	22
84	Dynamin-related protein 1 (Drp1)-mediated diastolic dysfunction in myocardial ischemia-reperfusion injury: therapeutic benefits of Drp1 inhibition to reduce mitochondrial fission. <i>FASEB Journal</i> , 2014 , 28, 316-26	0.9	234
83	The right ventricle in pulmonary arterial hypertension: disorders of metabolism, angiogenesis and adrenergic signaling in right ventricular failure. <i>Circulation Research</i> , 2014 , 115, 176-88	15.7	264
82	Mitochondrial fission and fusion in human diseases. <i>New England Journal of Medicine</i> , 2014 , 370, 1074	59.2	40
81	QTc prolongation is associated with impaired right ventricular function and predicts mortality in pulmonary hypertension. <i>International Journal of Cardiology</i> , 2013 , 167, 669-76	3.2	61
80	Relevant issues in the pathology and pathobiology of pulmonary hypertension. <i>Journal of the American College of Cardiology</i> , 2013 , 62, D4-12	15.1	379
79	Mitochondrial dynamics--mitochondrial fission and fusion in human diseases. <i>New England Journal of Medicine</i> , 2013 , 369, 2236-51	59.2	629
78	PGC1 β -mediated mitofusin-2 deficiency in female rats and humans with pulmonary arterial hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013 , 187, 865-78	10.2	130
77	FOXO1-mediated upregulation of pyruvate dehydrogenase kinase-4 (PDK4) decreases glucose oxidation and impairs right ventricular function in pulmonary hypertension: therapeutic benefits of dichloroacetate. <i>Journal of Molecular Medicine</i> , 2013 , 91, 333-46	5.5	100
76	Cardiac glutaminolysis: a maladaptive cancer metabolism pathway in the right ventricle in pulmonary hypertension. <i>Journal of Molecular Medicine</i> , 2013 , 91, 1185-97	5.5	110
75	Metabolism and bioenergetics in the right ventricle and pulmonary vasculature in pulmonary hypertension. <i>Pulmonary Circulation</i> , 2013 , 3, 144-52	2.7	118
74	Role of dynamin-related protein 1 (Drp1)-mediated mitochondrial fission in oxygen sensing and constriction of the ductus arteriosus. <i>Circulation Research</i> , 2013 , 112, 802-15	15.7	73
73	Rodent models of group 1 pulmonary hypertension. <i>Handbook of Experimental Pharmacology</i> , 2013 , 218, 105-49	3.2	26
72	Rodent Models of Group 1 Pulmonary Hypertension. <i>Handbook of Experimental Pharmacology</i> , 2013 , 105-149	3.2	37
71	Persistence of complex vascular lesions despite prolonged prostacyclin therapy of pulmonary arterial hypertension. <i>Histopathology</i> , 2012 , 61, 597-609	7.3	25

70	Therapeutic inhibition of fatty acid oxidation in right ventricular hypertrophy: exploiting Randle cycle. <i>Journal of Molecular Medicine</i> , 2012 , 90, 31-43	5.5	139
69	Late gadolinium enhancement cardiovascular magnetic resonance predicts clinical worsening in patients with pulmonary hypertension. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14, 11	6.9	152
68	The Right Ventricle: Reemergence of the Forgotten Ventricle 2012 , 537-553		1
67	Inhibition of mitochondrial fission prevents cell cycle progression in lung cancer. <i>FASEB Journal</i> , 2012 , 26, 2175-86	0.9	359
66	GRK2-mediated inhibition of adrenergic and dopaminergic signaling in right ventricular hypertrophy: therapeutic implications in pulmonary hypertension. <i>Circulation</i> , 2012 , 126, 2859-69	16.7	86
65	Lung 18 F-fluorodeoxyglucose positron emission tomography for diagnosis and monitoring of pulmonary arterial hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012 , 185, 670-9	10.2	133
64	Dynamin-related protein 1-mediated mitochondrial mitotic fission permits hyperproliferation of vascular smooth muscle cells and offers a novel therapeutic target in pulmonary hypertension. <i>Circulation Research</i> , 2012 , 110, 1484-97	15.7	280
63	Epigenetic mechanisms of pulmonary hypertension. <i>Pulmonary Circulation</i> , 2011 , 1, 347-56	2.7	69
62	A central role for CD68(+) macrophages in hepatopulmonary syndrome. Reversal by macrophage depletion. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011 , 183, 1080-91	10.2	133
61	Epigenetic attenuation of mitochondrial superoxide dismutase 2 in pulmonary arterial hypertension: a basis for excessive cell proliferation and a new therapeutic target. <i>Circulation</i> , 2010 , 121, 2661-71	16.7	301
60	Basic science of pulmonary arterial hypertension for clinicians: new concepts and experimental therapies. <i>Circulation</i> , 2010 , 121, 2045-66	16.7	367
59	Validation of high-resolution echocardiography and magnetic resonance imaging vs. high-fidelity catheterization in experimental pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010 , 299, L401-12	5.8	115
58	Long-term effects of epoprostenol on the pulmonary vasculature in idiopathic pulmonary arterial hypertension. <i>Chest</i> , 2010 , 138, 1234-9	5.3	88
57	The inhibition of pyruvate dehydrogenase kinase improves impaired cardiac function and electrical remodeling in two models of right ventricular hypertrophy: resuscitating the hibernating right ventricle. <i>Journal of Molecular Medicine</i> , 2010 , 88, 47-60	5.5	236
56	Mitochondrial metabolic adaptation in right ventricular hypertrophy and failure. <i>Journal of Molecular Medicine</i> , 2010 , 88, 1011-20	5.5	112
55	The role of redox changes in oxygen sensing. <i>Respiratory Physiology and Neurobiology</i> , 2010 , 174, 182-91	2.8	43
54	A proposed mitochondrial-metabolic mechanism for initiation and maintenance of pulmonary arterial hypertension in fawn-hooded rats: the Warburg model of pulmonary arterial hypertension. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 661, 171-85	3.6	70
53	Novel role of Pre-B-Cell Colony Enhancing Factor (PBEF) in pulmonary arterial hypertension (PAH). <i>FASEB Journal</i> , 2010 , 24, 1023.6	0.9	

52	ACCF/AHA 2009 expert consensus document on pulmonary hypertension: a report of the American College of Cardiology Foundation Task Force on Expert Consensus Documents and the American Heart Association: developed in collaboration with the American College of Chest Physicians, American Thoracic Society, Inc., and the Pulmonary Hypertension Association. <i>Circulation</i> , 2009 , 119, 1000-1043	16.7	829
51	Phosphodiesterase type 5 inhibitors for pulmonary arterial hypertension. <i>New England Journal of Medicine</i> , 2009 , 361, 1864-71	59.2	167
50	ACCF/AHA 2009 expert consensus document on pulmonary hypertension a report of the American College of Cardiology Foundation Task Force on Expert Consensus Documents and the American Heart Association developed in collaboration with the American College of Chest Physicians; American Thoracic Society, Inc.; and the Pulmonary Hypertension Association. <i>Journal of the Cellular and molecular basis of pulmonary arterial hypertension. Journal of the American College of Cardiology</i> , 2009 , 54, S20-S31	15.1	1257
49	Cellular and molecular basis of pulmonary arterial hypertension. <i>Journal of the American College of Cardiology</i> , 2009 , 54, S20-S31	15.1	609
48	Mitochondrial metabolism, redox signaling, and fusion: a mitochondria-ROS-HIF-1 α -Kv1.5 O ₂ -sensing pathway at the intersection of pulmonary hypertension and cancer. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H570-8	5.2	272
47	Blunted hypoxic pulmonary vasoconstriction in experimental neonatal chronic lung disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008 , 178, 399-406	10.2	13
46	Developmental absence of the O ₂ sensitivity of L-type calcium channels in preterm ductus arteriosus smooth muscle cells impairs O ₂ constriction contributing to patent ductus arteriosus. <i>Pediatric Research</i> , 2008 , 63, 176-81	3.2	42
45	A Central Role for Oxygen-Sensitive K ⁺ Channels and Mitochondria in the Specialized Oxygen-Sensing System. <i>Novartis Foundation Symposium</i> , 2008 , 157-175		17
44	A mitochondria-K ⁺ channel axis is suppressed in cancer and its normalization promotes apoptosis and inhibits cancer growth. <i>Cancer Cell</i> , 2007 , 11, 37-51	24.3	1199
43	The nuclear factor of activated T cells in pulmonary arterial hypertension can be therapeutically targeted. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 11418-23	11.5	291
42	Oxygen activates the Rho/Rho-kinase pathway and induces RhoB and ROCK-1 expression in human and rabbit ductus arteriosus by increasing mitochondria-derived reactive oxygen species: a newly recognized mechanism for sustaining ductal constriction. <i>Circulation</i> , 2007 , 115, 1777-88	16.7	121
41	Overexpression of human bone morphogenetic protein receptor 2 does not ameliorate monocrotaline pulmonary arterial hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007 , 292, L872-8	5.8	61
40	The making of a physician-scientist--the process has a pattern: lessons from the lives of Nobel laureates in medicine and physiology. <i>European Heart Journal</i> , 2007 , 28, 510-4	9.5	20
39	Statin therapy, alone or with rapamycin, does not reverse monocrotaline pulmonary arterial hypertension: the rapamycin-atorvastatin-simvastatin study. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007 , 293, L933-40	5.8	64
38	Phosphodiesterase type 5 is highly expressed in the hypertrophied human right ventricle, and acute inhibition of phosphodiesterase type 5 improves contractility. <i>Circulation</i> , 2007 , 116, 238-48	16.7	420
37	Images in cardiovascular medicine. Untreated 37-year-old homozygous familial hypercholesterolemic smoker. <i>Circulation</i> , 2006 , 113, e777	16.7	2
36	An abnormal mitochondrial-hypoxia inducible factor-1 α -Kv channel pathway disrupts oxygen sensing and triggers pulmonary arterial hypertension in fawn hooded rats: similarities to human pulmonary arterial hypertension. <i>Circulation</i> , 2006 , 113, 2630-41	16.7	455
35	An anesthesiologist's guide to hypoxic pulmonary vasoconstriction: implications for managing single-lung anesthesia and atelectasis. <i>Current Opinion in Anaesthesiology</i> , 2006 , 19, 34-43	2.9	50

34	Counterpoint: Hypoxic pulmonary vasoconstriction is not mediated by increased production of reactive oxygen species. <i>Journal of Applied Physiology</i> , 2006 , 101, 995-8; discussion 998	3.7	40
33	The role of k ⁺ channels in determining pulmonary vascular tone, oxygen sensing, cell proliferation, and apoptosis: implications in hypoxic pulmonary vasoconstriction and pulmonary arterial hypertension. <i>Microcirculation</i> , 2006 , 13, 615-32	2.9	132
32	A central role for oxygen-sensitive K ⁺ channels and mitochondria in the specialized oxygen-sensing system. <i>Novartis Foundation Symposium</i> , 2006 , 272, 157-71; discussion 171-5, 214-7		9
31	Acute oxygen-sensing mechanisms. <i>New England Journal of Medicine</i> , 2005 , 353, 2042-55	59.2	373
30	Aetiology and management of male erectile dysfunction and female sexual dysfunction in patients with cardiovascular disease. <i>Drugs and Aging</i> , 2005 , 22, 823-44	4.7	17
29	Hypoxic pulmonary vasoconstriction. <i>Journal of Applied Physiology</i> , 2005 , 98, 390-403	3.7	356
28	Gene therapy targeting survivin selectively induces pulmonary vascular apoptosis and reverses pulmonary arterial hypertension. <i>Journal of Clinical Investigation</i> , 2005 , 115, 1479-91	15.9	277
27	Preferential expression and function of voltage-gated, O ₂ -sensitive K ⁺ channels in resistance pulmonary arteries explains regional heterogeneity in hypoxic pulmonary vasoconstriction: ionic diversity in smooth muscle cells. <i>Circulation Research</i> , 2004 , 95, 308-18	15.7	156
26	Oxygen-sensitive Kv channel gene transfer confers oxygen responsiveness to preterm rabbit and remodeled human ductus arteriosus: implications for infants with patent ductus arteriosus. <i>Circulation</i> , 2004 , 110, 1372-9	16.7	89
25	O ₂ sensing in the human ductus arteriosus: redox-sensitive K ⁺ channels are regulated by mitochondria-derived hydrogen peroxide. <i>Biological Chemistry</i> , 2004 , 385, 205-16	4.5	44
24	Hypoxic pulmonary vasoconstriction: redox regulation of O ₂ -sensitive K ⁺ channels by a mitochondrial O ₂ -sensor in resistance artery smooth muscle cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2004 , 37, 1119-36	5.8	103
23	Endothelium-derived hyperpolarizing factor in human internal mammary artery is 11,12-epoxyeicosatrienoic acid and causes relaxation by activating smooth muscle BK(Ca) channels. <i>Circulation</i> , 2003 , 107, 769-76	16.7	227
22	Long-term treatment with oral sildenafil is safe and improves functional capacity and hemodynamics in patients with pulmonary arterial hypertension. <i>Circulation</i> , 2003 , 108, 2066-9	16.7	294
21	In vivo gene transfer of the O ₂ -sensitive potassium channel Kv1.5 reduces pulmonary hypertension and restores hypoxic pulmonary vasoconstriction in chronically hypoxic rats. <i>Circulation</i> , 2003 , 107, 2037-44	16.7	226
20	Hypoxic fetoplacental vasoconstriction in humans is mediated by potassium channel inhibition. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 283, H2440-9	5.2	73
19	Potassium channels and erectile dysfunction. <i>Vascular Pharmacology</i> , 2002 , 38, 61-71	5.9	60
18	Diversity in mitochondrial function explains differences in vascular oxygen sensing. <i>Circulation Research</i> , 2002 , 90, 1307-15	15.7	246
17	Dichloroacetate, a metabolic modulator, prevents and reverses chronic hypoxic pulmonary hypertension in rats: role of increased expression and activity of voltage-gated potassium channels. <i>Circulation</i> , 2002 , 105, 244-50	16.7	291

16	O ₂ sensing in the human ductus arteriosus: regulation of voltage-gated K ⁺ channels in smooth muscle cells by a mitochondrial redox sensor. <i>Circulation Research</i> , 2002 , 91, 478-86	15.7	138
15	The mechanism(s) of hypoxic pulmonary vasoconstriction: potassium channels, redox O ₂ sensors, and controversies. <i>Physiology</i> , 2002 , 17, 131-7	9.8	39
14	Triple-bonded unsaturated fatty acids are redox active compounds. <i>Lipids</i> , 2001 , 36, 431-3	1.6	2
13	Redox control of oxygen sensing in the rabbit ductus arteriosus. <i>Journal of Physiology</i> , 2001 , 533, 253-61	3.9	55
12	Impairment of hypoxic pulmonary vasoconstriction in mice lacking the voltage-gated potassium channel Kv1.5. <i>FASEB Journal</i> , 2001 , 15, 1801-3	0.9	126
11	In memoriam : Francis X. Witkowski. <i>Circulation Research</i> , 2000 , 86, 823	15.7	
10	Voltage-gated potassium channels in human ductus arteriosus. <i>Lancet, The</i> , 2000 , 356, 134-7	4.0	85
9	Effects of fluoxetine, phentermine, and venlafaxine on pulmonary arterial pressure and electrophysiology. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1999 , 276, L213-9	5.8	7
8	Dexfenfluramine increases pulmonary artery smooth muscle intracellular Ca ²⁺ , independent of membrane potential. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1999 , 277, L662-6	5.8	16
7	Aerosol delivery of diethylenetriamine/nitric oxide, a nitric oxide adduct, causes selective pulmonary vasodilation in perinatal lambs. <i>Translational Research</i> , 1999 , 134, 419-25		11
6	Measurement of Nitric Oxide and Nitric Oxide Synthase Activity 1999 , 163-185		1
5	Pulmonary vasoconstriction, oxygen sensing, and the role of ion channels: Thomas A. Neff lecture. <i>Chest</i> , 1998 , 114, 17S-22S	5.3	23
4	A maturational shift in pulmonary K ⁺ channels, from Ca ²⁺ sensitive to voltage dependent. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1998 , 275, L1019-25	5.8	37
3	A placebo-controlled trial of prostacyclin in acute respiratory failure in COPD. <i>Chest</i> , 1996 , 109, 750-5	5.3	70
2	Differential distribution of electrophysiologically distinct myocytes in conduit and resistance arteries determines their response to nitric oxide and hypoxia. <i>Circulation Research</i> , 1996 , 78, 431-42	15.7	259
1	The mechanism of acute hypoxic pulmonary vasoconstriction: the tale of two channels. <i>FASEB Journal</i> , 1995 , 9, 183-9	0.9	407