

Ivan F Mcmurtry

List of Publications by Citations

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64
papers

5,179
citations

36
h-index

68
g-index

68
ext. papers

5,633
ext. citations

6.1
avg, IF

5.14
L-index

#	Paper	IF	Citations
64	Cellular and molecular basis of pulmonary arterial hypertension. <i>Journal of the American College of Cardiology</i> , 2009 , 54, S20-S31	15.1	609
63	Animal models of pulmonary arterial hypertension: the hope for etiological discovery and pharmacological cure. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009 , 297, L1013-32	5.8	543
62	Formation of plexiform lesions in experimental severe pulmonary arterial hypertension. <i>Circulation</i> , 2010 , 121, 2747-54	16.7	371
61	Rho kinase-mediated vasoconstriction is important in severe occlusive pulmonary arterial hypertension in rats. <i>Circulation Research</i> , 2007 , 100, 923-9	15.7	284
60	Attenuation of acute hypoxic pulmonary vasoconstriction and hypoxic pulmonary hypertension in mice by inhibition of Rho-kinase. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004 , 287, L656-64	5.8	254
59	The pulmonary circulation of homozygous or heterozygous eNOS-null mice is hyperresponsive to mild hypoxia. <i>Journal of Clinical Investigation</i> , 1999 , 103, 291-9	15.9	248
58	Inhaled Rho kinase inhibitors are potent and selective vasodilators in rat pulmonary hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005 , 171, 494-9	10.2	218
57	Endothelial cells in culture produce a vasoconstrictor substance. <i>Journal of Cellular Physiology</i> , 1987 , 132, 263-70	7	195
56	Role of endothelin-1 in lung disease. <i>Respiratory Research</i> , 2001 , 2, 90-101	7.3	170
55	Rosiglitazone attenuates hypoxia-induced pulmonary arterial remodeling. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007 , 292, L885-97	5.8	145
54	Factors influencing the idiopathic development of pulmonary hypertension in the fawn hooded rat. <i>The American Review of Respiratory Disease</i> , 1992 , 145, 793-7		138
53	Mechanisms of hypoxic pulmonary vasoconstriction and their roles in pulmonary hypertension: new findings for an old problem. <i>Current Opinion in Pharmacology</i> , 2009 , 9, 287-96	5.1	121
52	Nitric oxide production in the hypoxic lung. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2001 , 280, L575-82	5.8	100
51	Relative contributions of endothelial, inducible, and neuronal NOS to tone in the murine pulmonary circulation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1999 , 277, L472-8	5.8	95
50	Involvement of RhoA/Rho kinase signaling in pulmonary hypertension of the fawn-hooded rat. <i>Journal of Applied Physiology</i> , 2006 , 100, 996-1002	3.7	92
49	Liposomal fasudil, a rho-kinase inhibitor, for prolonged pulmonary preferential vasodilation in pulmonary arterial hypertension. <i>Journal of Controlled Release</i> , 2013 , 167, 189-99	11.7	85
48	Dehydroepiandrosterone restores right ventricular structure and function in rats with severe pulmonary arterial hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 304, H1708-18	5.2	76

47	Lipid nanoparticle delivery of a microRNA-145 inhibitor improves experimental pulmonary hypertension. <i>Journal of Controlled Release</i> , 2015 , 210, 67-75	11.7	75
46	Upregulation of nitric oxide synthase in mice with severe hypoxia-induced pulmonary hypertension. <i>Respiratory Research</i> , 2001 , 2, 306-13	7.3	73
45	Involvement of RhoA/Rho kinase signaling in protection against monocrotaline-induced pulmonary hypertension in pneumonectomized rats by dehydroepiandrosterone. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008 , 295, L71-8	5.8	68
44	Dehydroepiandrosterone upregulates soluble guanylate cyclase and inhibits hypoxic pulmonary hypertension. <i>Cardiovascular Research</i> , 2007 , 74, 377-87	9.9	67
43	Increased reactive oxygen species, metabolic maladaptation, and autophagy contribute to pulmonary arterial hypertension-induced ventricular hypertrophy and diastolic heart failure. <i>Hypertension</i> , 2014 , 64, 1266-74	8.5	58
42	Temporal hemodynamic and histological progression in Sugen5416/hypoxia/normoxia-exposed pulmonary arterial hypertensive rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 306, H243-50	5.2	58
41	Endothelin-1 and serotonin are involved in activation of RhoA/Rho kinase signaling in the chronically hypoxic hypertensive rat pulmonary circulation. <i>Journal of Cardiovascular Pharmacology</i> , 2007 , 50, 697-702	3.1	56
40	Exaggerated hypoxic pulmonary hypertension in endothelin B receptor-deficient rats. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2002 , 282, L703-12	5.8	54
39	Endothelium-dependent vascular hyporesponsiveness without detection of nitric oxide synthase induction in aortas of cirrhotic rats. <i>Hepatology</i> , 1995 , 22, 1856-1862	11.2	54
38	Rho kinase-mediated vasoconstriction in pulmonary hypertension. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 661, 299-308	3.6	52
37	Hypoxia-induced glucose-6-phosphate dehydrogenase overexpression and -activation in pulmonary artery smooth muscle cells: implication in pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015 , 308, L287-300	5.8	47
36	Tyrosine kinase inhibitors are potent acute pulmonary vasodilators in rats. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2011 , 45, 804-8	5.7	46
35	Endothelin B receptor deficiency potentiates ET-1 and hypoxic pulmonary vasoconstriction. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2001 , 280, L1040-8	5.8	46
34	Insulin-like growth factor I and protein kinase C activation stimulate pulmonary artery smooth muscle cell proliferation through separate but synergistic pathways. <i>Journal of Cellular Physiology</i> , 1990 , 144, 159-65	7	44
33	MicroRNA-140 is elevated and mitofusin-1 is downregulated in the right ventricle of the Sugen5416/hypoxia/normoxia model of pulmonary arterial hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 311, H689-98	5.2	41
32	A novel vascular homing peptide strategy to selectively enhance pulmonary drug efficacy in pulmonary arterial hypertension. <i>American Journal of Pathology</i> , 2014 , 184, 369-75	5.8	38
31	Haemodynamic unloading reverses occlusive vascular lesions in severe pulmonary hypertension. <i>Cardiovascular Research</i> , 2016 , 111, 16-25	9.9	38
30	Serotonin transporter protein in pulmonary hypertensive rats treated with atorvastatin. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007 , 293, L630-8	5.8	35

29	TRPC4 inactivation confers a survival benefit in severe pulmonary arterial hypertension. <i>American Journal of Pathology</i> , 2013 , 183, 1779-1788	5.8	31
28	Uptake and metabolism of endothelin in the isolated perfused rat lung. <i>Experimental Lung Research</i> , 1990 , 16, 521-32	2.3	26
27	Sphingosine-1-phosphate is involved in the occlusive arteriopathy of pulmonary arterial hypertension. <i>Pulmonary Circulation</i> , 2016 , 6, 369-80	2.7	24
26	Inhaled sildenafil as an alternative to oral sildenafil in the treatment of pulmonary arterial hypertension (PAH). <i>Journal of Controlled Release</i> , 2017 , 250, 96-106	11.7	23
25	Capillary recruitment and transit time in the rat lung. <i>Journal of Applied Physiology</i> , 1997 , 83, 543-9	3.7	23
24	Glucose-6-phosphate dehydrogenase plays a critical role in hypoxia-induced CD133+ progenitor cells self-renewal and stimulates their accumulation in the lungs of pulmonary hypertensive rats. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014 , 307, L545-56	5.8	22
23	Rho kinase-mediated vasoconstriction in rat models of pulmonary hypertension. <i>Methods in Enzymology</i> , 2008 , 439, 191-204	1.7	18
22	Cocktail of Superoxide Dismutase and Fasudil Encapsulated in Targeted Liposomes Slows PAH Progression at a Reduced Dosing Frequency. <i>Molecular Pharmaceutics</i> , 2017 , 14, 830-841	5.6	16
21	Protein kinase G is not essential to NO-cGMP modulation of basal tone in rat pulmonary circulation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998 , 274, H672-8	5.2	16
20	Hypoxic activation of glucose-6-phosphate dehydrogenase controls the expression of genes involved in the pathogenesis of pulmonary hypertension through the regulation of DNA methylation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020 , 318, L773-L786	5.8	15
19	Cyp2c44 gene disruption exacerbated pulmonary hypertension and heart failure in female but not male mice. <i>Pulmonary Circulation</i> , 2016 , 6, 360-8	2.7	11
18	CAR, a Homing Peptide, Prolongs Pulmonary Preferential Vasodilation by Increasing Pulmonary Retention and Reducing Systemic Absorption of Liposomal Fasudil. <i>Molecular Pharmaceutics</i> , 2019 , 16, 3414-3429	5.6	8
17	Inhibition of nitric oxide synthase unmasks vigorous vasoconstriction in established pulmonary arterial hypertension. <i>Physiological Reports</i> , 2017 , 5, e13537	2.6	8
16	Pulmonary vascular dysfunction secondary to pulmonary arterial hypertension: insights gained through retrograde perfusion. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018 , 314, L835-L845	5.8	7
15	gene disruption is associated with increased hematopoietic stem cells: implication in chronic hypoxia-induced pulmonary hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 313, H293-H303	5.2	6
14	Repurposing rosiglitazone, a PPAR- γ agonist and oral antidiabetic, as an inhaled formulation, for the treatment of PAH. <i>Journal of Controlled Release</i> , 2018 , 280, 113-123	11.7	6
13	Aggregating platelets increase intracellular calcium in endothelial cells through release of adenine nucleotides. <i>Biochemical and Biophysical Research Communications</i> , 1990 , 166, 909-15	3.4	6
12	Pulmonary Circulation 1983 , 103-136		6

11	Inhibition of Glucose-6-Phosphate Dehydrogenase Activity Attenuates Right Ventricle Pressure and Hypertrophy Elicited by VEGFR Inhibitor + Hypoxia. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2021 , 377, 284-292	4.7	6
10	Inhaled combination of sildenafil and rosiglitazone improves pulmonary hemodynamics, cardiac function, and arterial remodeling. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019 , 316, L119-L130	5.8	6
9	Aneurysm-type plexiform lesions form in supernumerary arteries in pulmonary arterial hypertension: potential therapeutic implications. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019 , 317, L805-L815	5.8	5
8	Pulmonary-arterial-hypertension (PAH)-on-a-chip: fabrication, validation and application. <i>Lab on A Chip</i> , 2020 , 20, 3334-3345	7.2	5
7	How does pulmonary endarterectomy cure CTEPH: A clue to cure PAH?. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016 , 311, L766-L769	5.8	4
6	Chronic hypoxia does not cause wall thickening of intra-acinar pulmonary supernumerary arteries. <i>Physiological Reports</i> , 2016 , 4, e12674	2.6	4
5	Pluripotent hematopoietic stem cells augment β adrenergic receptor-mediated contraction of pulmonary artery and contribute to the pathogenesis of pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020 , 318, L386-L401	5.8	3
4	Endothelin-1 2013 , 1513-1518		1
3	Animal Models of Human Severe PAH. <i>Advances in Pulmonary Hypertension</i> , 2008 , 7, 346-349	0.5	
2	Role of Glucose-6-Phosphate Dehydrogenase (G6PD) in Chronic Hypoxia-induced Pulmonary Hypertension. <i>FASEB Journal</i> , 2010 , 24, 1023.2	0.9	
1	Activation of Glucose-6-Phosphate Dehydrogenase Promotes Acute Hypoxic Pulmonary Artery Contraction. <i>FASEB Journal</i> , 2010 , 24, 795.6	0.9	