

Philip Irving Aaronson

List of Publications by Year in descending order

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83
papers

3,412
citations

136950

32
h-index

144013

57
g-index

83
all docs

83
docs citations

83
times ranked

3241
citing authors

#	ARTICLE	IF	CITATIONS
1	Hypoxic Pulmonary Vasoconstriction. <i>Physiological Reviews</i> , 2012, 92, 367-520.	28.8	568
2	The mechanism of action of peppermint oil on gastrointestinal smooth muscle. <i>Gastroenterology</i> , 1991, 101, 55-65.	1.3	247
3	Dietary soy isoflavone-induced increases in antioxidant and eNOS gene expression lead to improved endothelial function and reduced blood pressure in vivo. <i>FASEB Journal</i> , 2005, 19, 1755-1757.	0.5	169
4	Voltage-independent calcium entry in hypoxic pulmonary vasoconstriction of intrapulmonary arteries of the rat. <i>Journal of Physiology</i> , 2000, 525, 669-680.	2.9	157
5	Hypoxic pulmonary vasoconstriction: mechanisms and controversies. <i>Journal of Physiology</i> , 2006, 570, 53-58.	2.9	132
6	The Isoflavone Equol Mediates Rapid Vascular Relaxation. <i>Journal of Biological Chemistry</i> , 2006, 281, 27335-27345.	3.4	126
7	Mechanisms of hypoxic pulmonary vasoconstriction: can anyone be right?. <i>Respiration Physiology</i> , 1999, 115, 261-271.	2.7	111
8	Endothelium-derived mediators and hypoxic pulmonary vasoconstriction. <i>Respiratory Physiology and Neurobiology</i> , 2002, 132, 107-120.	1.6	107
9	Superoxide constricts rat pulmonary arteries via Rho-kinase-mediated Ca ²⁺ sensitization. <i>Free Radical Biology and Medicine</i> , 2009, 46, 633-642.	2.9	95
10	Ca ²⁺ homeostasis and structural and functional remodelling of airway smooth muscle in asthma. <i>Thorax</i> , 2010, 65, 547-552.	5.6	83
11	Capacitative calcium entry as a pulmonary specific vasoconstrictor mechanism in small muscular arteries of the rat. <i>British Journal of Pharmacology</i> , 2003, 140, 97-106.	5.4	74
12	Protein kinases in vascular smooth muscle tone's role in the pulmonary vasculature and hypoxic pulmonary vasoconstriction. , 2004, 104, 207-231.		71
13	Electrophysiologically distinct smooth muscle cell subtypes in rat conduit and resistance pulmonary arteries. <i>Journal of Physiology</i> , 2002, 538, 867-878.	2.9	61
14	Modulation of Arachidonic Acid Release and Membrane Fluidity by Albumin in Vascular Smooth Muscle and Endothelial Cells. <i>Circulation Research</i> , 1998, 83, 923-931.	4.5	60
15	Key role of the RhoA/Rho kinase system in pulmonary hypertension. <i>Pulmonary Pharmacology and Therapeutics</i> , 2011, 24, 1-14.	2.6	57
16	A role for voltage-gated, but not Ca ²⁺ -activated, K ⁺ channels in regulating spontaneous contractile activity in myometrium from virgin and pregnant rats. <i>British Journal of Pharmacology</i> , 2006, 147, 815-824.	5.4	56
17	Role of src-family kinases in hypoxic vasoconstriction of rat pulmonary artery. <i>Cardiovascular Research</i> , 2008, 80, 453-462.	3.8	56
18	Inhibition of Vascular Smooth Muscle Cell K ⁺ Currents by Tyrosine Kinase Inhibitors Genistein and ST 638. <i>Circulation Research</i> , 1995, 76, 310-316.	4.5	56

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19	Constriction of pulmonary artery by peroxide: role of Ca ²⁺ release and PKC. <i>Free Radical Biology and Medicine</i> , 2008, 45, 1468-1476.	2.9	54
20	Effect of nimesulide and indomethacin on contractility and the Ca ²⁺ channel current in myometrial smooth muscle from pregnant women. <i>British Journal of Pharmacology</i> , 1998, 125, 1212-1217.	5.4	53
21	Ca ²⁺ sensitization during sustained hypoxic pulmonary vasoconstriction is endothelium dependent. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2003, 284, L1121-L1126.	2.9	51
22	Differential effects of insulin-sensitizers troglitazone and rosiglitazone on ion currents in rat vascular myocytes. <i>European Journal of Pharmacology</i> , 1999, 368, 103-109.	3.5	49
23	Interaction between src family kinases and rho-kinase in agonist-induced Ca ²⁺ -sensitization of rat pulmonary artery. <i>Cardiovascular Research</i> , 2008, 77, 570-579.	3.8	47
24	Calcium, mitochondria and oxygen sensing in the pulmonary circulation. <i>Cell Calcium</i> , 2004, 36, 209-220.	2.4	45
25	Modulatory Effects of Arachidonic Acid on the Delayed Rectifier K ⁺ Current in Rat Pulmonary Arterial Myocytes. <i>Circulation Research</i> , 1996, 79, 20-31.	4.5	42
26	Voltage-gated K ⁺ currents in freshly isolated myocytes of the pregnant human myometrium. <i>Journal of Physiology</i> , 1999, 518, 769-781.	2.9	41
27	Modulation of Potassium Current Characteristics in Human Myometrial Smooth Muscle by 17 β -Estradiol and Progesterone ¹ . <i>Biology of Reproduction</i> , 2001, 64, 1526-1534.	2.7	41
28	Mechanisms of the prostaglandin F ₂ α -induced rise in [Ca ²⁺] _i in rat intrapulmonary arteries. <i>Journal of Physiology</i> , 2006, 571, 147-163.	2.9	38
29	Effects of amiloride, benzamil, and alterations in extracellular Na ⁺ on the rat afferent arteriole and its myogenic response. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 295, F272-F282.	2.7	38
30	Hypoxic pulmonary vasoconstriction in the absence of pretone: essential role for intracellular Ca ²⁺ release. <i>Journal of Physiology</i> , 2013, 591, 4473-4498.	2.9	36
31	Glabridin-induced vasorelaxation: Evidence for a role of BKCa channels and cyclic GMP. <i>Life Sciences</i> , 2016, 165, 26-34.	4.3	35
32	Effects of BRL 38227 on potassium currents in smooth muscle cells isolated from rabbit portal vein and human mesenteric artery. <i>British Journal of Pharmacology</i> , 1992, 105, 549-556.	5.4	33
33	Sphingosylphosphorylcholine-induced vasoconstriction of pulmonary artery: Activation of non-store-operated Ca entry. <i>Cardiovascular Research</i> , 2005, 68, 56-64.	3.8	33
34	Investigating the potential role of TRPA ¹ in locomotion and cardiovascular control during hypertension. <i>Pharmacology Research and Perspectives</i> , 2014, 2, e00052.	2.4	33
35	The pharmacological properties of K ⁺ currents from rabbit isolated aortic smooth muscle cells. <i>British Journal of Pharmacology</i> , 1995, 116, 3139-3148.	5.4	28
36	Superoxide differentially controls pulmonary and systemic vascular tone through multiple signalling pathways. <i>Cardiovascular Research</i> , 2011, 89, 214-224.	3.8	28

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37	Propionate-induced relaxation in rat mesenteric arteries: a role for endothelium-derived hyperpolarising factor. <i>Journal of Physiology</i> , 2002, 538, 879-890.	2.9	24
38	Capacitative calcium entry: a central role in hypoxic pulmonary vasoconstriction?. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005, 289, L2-L4.	2.9	24
39	Reactive oxygen species facilitate the EDH response in arterioles by potentiating intracellular endothelial Ca ²⁺ release. <i>Free Radical Biology and Medicine</i> , 2016, 97, 274-284.	2.9	21
40	Cell redox state and hypoxic pulmonary vasoconstriction: Recent evidence and possible mechanisms. <i>Respiratory Physiology and Neurobiology</i> , 2010, 174, 165-174.	1.6	20
41	Mechanism of effect of extracellular pH on L-type Ca ²⁺ channel currents in human mesenteric arterial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 279, H76-H85.	3.2	19
42	Gap junctions support the sustained phase of hypoxic pulmonary vasoconstriction by facilitating calcium sensitization. <i>Cardiovascular Research</i> , 2013, 99, 404-411.	3.8	17
43	Hypoxic pulmonary vasoconstriction in isolated rat pulmonary arteries is not inhibited by antagonists of H ₂ S-synthesizing pathways. <i>Journal of Physiology</i> , 2015, 593, 385-401.	2.9	17
44	Differential block by troglitazone and rosiglitazone of glibenclamide-sensitive K ⁺ current in rat aorta myocytes. <i>European Journal of Pharmacology</i> , 1999, 386, 121-125.	3.5	16
45	Low Concentrations of Sphingosylphosphorylcholine Enhance Pulmonary Artery Vasoreactivity. <i>Hypertension</i> , 2008, 51, 239-245.	2.7	16
46	Sphingosylphosphorylcholine potentiates vasoreactivity and voltage-gated Ca ²⁺ entry via NOX1 and reactive oxygen species. <i>Cardiovascular Research</i> , 2015, 106, 121-130.	3.8	16
47	Calcium antagonistic properties of the cyclooxygenase-2 inhibitor nimesulide in human myometrial myocytes. <i>British Journal of Pharmacology</i> , 1999, 127, 1470-1478.	5.4	15
48	Dietary soy modulates endothelium-dependent relaxation in aged male rats: Increased agonist-induced endothelium-derived hyperpolarising factor and basal nitric oxide activity. <i>Free Radical Biology and Medicine</i> , 2006, 41, 731-739.	2.9	14
49	S-Nitrosophytochelatin: Investigation of the Bioactivity of an Oligopeptide Nitric Oxide Delivery System. <i>Biomacromolecules</i> , 2011, 12, 2103-2113.	5.4	14
50	Euhydric hypercapnia increases vasoreactivity of rat pulmonary arteries via HCO transport and depolarisation. <i>Cardiovascular Research</i> , 2005, 65, 505-512.	3.8	13
51	Effects of the 5-lipoxygenase activating protein inhibitor MK886 on voltage-gated and Ca ²⁺ -activated K ⁺ currents in rat arterial myocytes. <i>British Journal of Pharmacology</i> , 1998, 124, 572-578.	5.4	12
52	Modulation of PGF ₂ and hypoxia-induced contraction of rat intrapulmonary artery by p38 MAPK inhibition: a nitric oxide-dependent mechanism. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005, 289, L1039-L1048.	2.9	10
53	TRPC Channel Upregulation in Chronically Hypoxic Pulmonary Arteries. <i>Circulation Research</i> , 2006, 98, 1465-1467.	4.5	10
54	Role of reactive oxygen species and sulfide-quinone oxoreductase in hydrogen sulfide-induced contraction of rat pulmonary arteries. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 314, L670-L685.	2.9	10

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55	Potiation of Hypoxic Pulmonary Vasoconstriction by Hydrogen Sulfide Precursors 3-Mercaptopyruvate and D-Cysteine Is Blocked by the Cystathionine β Lyase Inhibitor Propargylglycine. <i>Advances in Experimental Medicine and Biology</i> , 2015, 860, 81-87.	1.6	10
56	Role of Hydrogen Sulfide in Systemic and Pulmonary Hypertension: Cellular Mechanisms and Therapeutic Implications. <i>Cardiovascular and Hematological Agents in Medicinal Chemistry</i> , 2016, 14, 4-22.	1.0	10
57	Hypoxic pulmonary vasoconstriction in intact rat intrapulmonary arteries is not initiated by inhibition of $\text{Na}^+/\text{Ca}^{2+}$ exchange. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007, 293, L982-L990.	2.9	9
58	pH-dependent block of the L-type Ca^{2+} channel current by diltiazem in human mesenteric arterial myocytes. <i>European Journal of Pharmacology</i> , 1998, 360, 81-90.	3.5	8
59	Role of Capacitative Ca^{2+} Entry But Not $\text{Na}^+/\text{Ca}^{2+}$ Exchange in Hypoxic Pulmonary Vasoconstriction in Rat Intrapulmonary Arteries. <i>Novartis Foundation Symposium</i> , 0, , 259-273.	1.1	8
60	Role of capacitative Ca^{2+} entry but not $\text{Na}^+/\text{Ca}^{2+}$ exchange in hypoxic pulmonary vasoconstriction in rat intrapulmonary arteries. <i>Novartis Foundation Symposium</i> , 2006, 272, 259-68; discussion 268-79.	1.1	8
61	Redox Regulation, Oxidative Stress, and Inflammation in Group 3 Pulmonary Hypertension. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1303, 209-241.	1.6	7
62	Hypoxic pulmonary vasoconstriction is/is not mediated by increased production of reactive oxygen species. <i>Journal of Applied Physiology</i> , 2006, 101, 1000-1002.	2.5	6
63	Role of Epithelial Sodium Channels in the Renal Myogenic Response?. <i>Hypertension</i> , 2010, 55, e6.	2.7	6
64	Estimation of high K- and noradrenaline-induced ^{45}Ca uptakes in isolated rat aorta: effects of washing in icecold solutions. <i>Pflugers Archiv European Journal of Physiology</i> , 1989, 414, 579-583.	2.8	5
65	Intracellular Ca^{2+} release in cerebral arteries. , 1994, 64, 493-507.		5
66	Hydrogen Sulfide as an O ₂ Sensor: A Critical Analysis. <i>Advances in Experimental Medicine and Biology</i> , 2017, 967, 261-276.	1.6	5
67	Maladaptive Pulmonary Vascular Responses to Chronic Sustained and Chronic Intermittent Hypoxia in Rat. <i>Antioxidants</i> , 2022, 11, 54.	5.1	5
68	Does TRPC3 macrodominate the myoendothelial gap junction microdomain?. <i>Cardiovascular Research</i> , 2012, 95, 399-400.	3.8	4
69	Hydroxycobalamin Reveals the Involvement of Hydrogen Sulfide in the Hypoxic Responses of Rat Carotid Body Chemoreceptor Cells. <i>Antioxidants</i> , 2019, 8, 62.	5.1	4
70	Intracellular remodelling of Ca^{2+} stores in pulmonary hypertension. <i>Cardiovascular Research</i> , 2014, 103, 189-191.	3.8	2
71	Pulmonary hypertension associated with chronic hypoxia: just ASIC β ness?. <i>Journal of Physiology</i> , 2021, 599, 4731-4732.	2.9	2
72	Src β family kinases mediate activation of RhoA and constriction in rat pulmonary artery. <i>FASEB Journal</i> , 2010, 24, 1061.9.	0.5	2

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73	Mechanism of hydrogen sulfide mediated contraction in rat small pulmonary arteries. FASEB Journal, 2012, 26, 871.5.	0.5	2
74	Effect of ceramide on the contractility of pregnant rat uterus. European Journal of Pharmacology, 2007, 567, 159-165.	3.5	1
75	K _v 1.5 channel downregulation in pulmonary hypertension is nothing short of miraculous!. Journal of Physiology, 2019, 597, 989-990.	2.9	1
76	Low concentrations of reactive oxygen species cause vasoconstriction of small distal pulmonary arteries.. FASEB Journal, 2006, 20, A1229.	0.5	1
77	O ₂ sensing and Ca ²⁺ release in hypoxic pulmonary vasoconstriction in nonprecontracted pulmonary arteries from rats. FASEB Journal, 2012, 26, 871.6.	0.5	1
78	Oxygen Sensing: Physiology and Pathophysiology. Antioxidants, 2022, 11, 1018.	5.1	1
79	Cromakalim does not act as a calcium antagonist in isolated human mesenteric artery cells. European Journal of Pharmacology, 1992, 217, 105-108.	3.5	0
80	Endothelium-dependent Hypoxic Pulmonary Vasoconstriction. , 2004, , 217-230.		0
81	Actin polymerization contributes to ROS- and Rho-dependent Ca ²⁺ sensitization in pulmonary arteries from chronic hypoxic rats. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H314-H317.	3.2	0
82	Subcontractile sphingosylphosphorylcholine enhances vasoreactivity via reactive oxygen species. FASEB Journal, 2012, 26, 863.9.	0.5	0
83	Membrane ion channels in vascular smooth muscle excitation-contraction coupling. , 1996, , 136-159.		0