Scott Earley

List of Publications by Citations

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86	3,705	33	60
papers	citations	h-index	g-index
105	4,177	6.4	5.81
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
86	TRPV4 forms a novel Ca2+ signaling complex with ryanodine receptors and BKCa channels. *Circulation Research*, **2005**, 97, 1270-9	15.7	365
85	Critical role for transient receptor potential channel TRPM4 in myogenic constriction of cerebral arteries. *Circulation Research*, **2004**, 95, 922-9	15.7	305
84	Transient receptor potential channels in the vasculature. *Physiological Reviews*, **2015**, 95, 645-90	47.9	247
83	Endothelium-dependent cerebral artery dilation mediated by TRPA1 and Ca2+-Activated K+ channels. *Circulation Research*, **2009**, 104, 987-94	15.7	193
82	TRPV4-dependent dilation of peripheral resistance arteries influences arterial pressure. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 297, H1096-102	5.2	158
81	TRPC3 mediates pyrimidine receptor-induced depolarization of cerebral arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **2005**, 288, H2055-61	5.2	128
80	Protein kinase C regulates vascular myogenic tone through activation of TRPM4. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 292, H2613-22	5.2	125
79	Transient receptor potential (TRP) channels, vascular tone and autoregulation of cerebral blood flow. *Clinical and Experimental Pharmacology and Physiology*, **2008**, 35, 1116-20	3	101
78	Localized TRPA1 channel Ca2+ signals stimulated by reactive oxygen species promote cerebral artery dilation. *Science Signaling*, **2015**, 8, ra2	8.8	97
77	A dietary agonist of transient receptor potential cation channel V3 elicits endothelium-dependent vasodilation. *Molecular Pharmacology*, **2010**, 77, 612-20	4.3	93
76	TRPA1 channels in the vasculature. *British Journal of Pharmacology*, **2012**, 167, 13-22	8.6	84
75	Pharmacological inhibition of TRPM4 hyperpolarizes vascular smooth muscle. *American Journal of Physiology - Cell Physiology*, **2010**, 299, C1195-202	5.4	79
74	Ca2+ release from the sarcoplasmic reticulum is required for sustained TRPM4 activity in cerebral artery smooth muscle cells. *American Journal of Physiology - Cell Physiology*, **2010**, 299, C279-88	5.4	77
73	Transient receptor potential channels and vascular function. *Clinical Science*, **2010**, 119, 19-36	6.5	76
72	A PLC[illegible]-dependent, force-sensitive signaling network in the myogenic constriction of cerebral arteries. *Science Signaling*, **2014**, 7, ra49	8.8	73
71	Neuron-specific (pro)renin receptor knockout prevents the development of salt-sensitive hypertension. *Hypertension*, **2014**, 63, 316-23	8.5	70
70	Cytochrome p-450 epoxygenase products contribute to attenuated vasoconstriction after chronic hypoxia. *American Journal of Physiology - Heart and Circulatory Physiology*, **2003**, 285, H127-36	5.2	66

69	Recruitment of dynamic endothelial Ca2+ signals by the TRPA1 channel activator AITC in rat cerebral arteries. *Microcirculation*, **2013**, 20, 138-48	2.9	56
68	Endothelium-dependent cerebral artery dilation mediated by transient receptor potential and Ca2+-activated K+ channels. *Journal of Cardiovascular Pharmacology*, **2011**, 57, 148-53	3.1	56
67	Estradiol attenuates hypoxia-induced pulmonary endothelin-1 gene expression. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2002**, 283, L86-93	5.8	54
66	Local regulation of arterial L-type calcium channels by reactive oxygen species. *Circulation Research* , **2010**, 107, 1002-10	15.7	53
65	Disruption of smooth muscle gap junctions attenuates myogenic vasoconstriction of mesenteric resistance arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 287, H2677-86	5.2	52
64	Vasoconstriction resulting from dynamic membrane trafficking of TRPM4 in vascular smooth muscle cells. *American Journal of Physiology - Cell Physiology*, **2010**, 299, C682-94	5.4	51
63	Optical recording reveals novel properties of GSK1016790A-induced vanilloid transient receptor potential channel TRPV4 activity in primary human endothelial cells. *Molecular Pharmacology*, **2012**, 82, 464-72	4.3	51
62	Ca(V)3.2 channels and the induction of negative feedback in cerebral arteries. *Circulation Research*, **2014**, 115, 650-61	15.7	49
61	TRP channel Ca(2+) sparklets: fundamental signals underlying endothelium-dependent hyperpolarization. *American Journal of Physiology - Cell Physiology*, **2013**, 305, C999-C1008	5.4	46
60	Vanilloid and melastatin transient receptor potential channels in vascular smooth muscle. *Microcirculation*, **2010**, 17, 237-49	2.9	46
59	TRPM4 channels in smooth muscle function. *Pflugers Archiv European Journal of Physiology*, **2013**, 465, 1223-31	4.6	41
58	Endogenous cytosolic Ca(2+) buffering is necessary for TRPM4 activity in cerebral artery smooth muscle cells. *Cell Calcium*, **2012**, 51, 82-93	4	41
57	Neuroprotective effects of TRPA1 channels in the cerebral endothelium following ischemic stroke. *ELife*, **2018**, 7,	8.9	41
56	Transient Receptor Potential Channels and Endothelial Cell Calcium Signaling. *Comprehensive Physiology*, **2019**, 9, 1249-1277	7.7	40
55	Unitary TRPV3 channel Ca2+ influx events elicit endothelium-dependent dilation of cerebral parenchymal arterioles. *American Journal of Physiology - Heart and Circulatory Physiology*, **2015**, 309, H2031-41	5.2	40
54	The angiotensin II receptor type 1b is the primary sensor of intraluminal pressure in cerebral artery smooth muscle cells. *Journal of Physiology*, **2017**, 595, 4735-4753	3.9	35
53	Endothelial control of vasodilation: integration of myoendothelial microdomain signalling and modulation by epoxyeicosatrienoic acids. *Pflugers Archiv European Journal of Physiology*, **2014**, 466, 389-405	4.6	30
52	Endothelium-dependent blunting of myogenic responsiveness after chronic hypoxia. *American Journal of Physiology - Heart and Circulatory Physiology*, **2002**, 283, H2202-9	5.2	29

51	Calcineurin/nuclear factor of activated T cells-coupled vanilliod transient receptor potential channel 4 ca2+ sparklets stimulate airway smooth muscle cell proliferation. *American Journal of Respiratory Cell and Molecular Biology*, **2014**, 50, 1064-75	5.7	27
50	Novel role for the transient potential receptor melastatin 4 channel in guinea pig detrusor smooth muscle physiology. *American Journal of Physiology - Cell Physiology*, **2013**, 304, C467-77	5.4	27
49	Pressure-induced smooth muscle cell depolarization in pulmonary arteries from control and chronically hypoxic rats does not cause myogenic vasoconstriction. *Journal of Applied Physiology*, **2005**, 98, 1119-24	3.7	27
48	TRPM4 channel: a new player in urinary bladder smooth muscle function in rats. *American Journal of Physiology - Renal Physiology*, **2013**, 304, F918-29	4.3	26
47	Robust internal elastic lamina fenestration in skeletal muscle arteries. *PLoS ONE*, **2013**, 8, e54849	3.7	24
46	Developmental differences in pulmonary eNOS expression in response to chronic hypoxia in the rat. *Journal of Applied Physiology*, **2002**, 93, 311-8	3.7	24
45	Unaltered vasoconstrictor responsiveness after iNOS inhibition in lungs from chronically hypoxic rats. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **1999**, 276, L122-30	5.8	23
44	Brain endothelial cell TRPA1 channels initiate neurovascular coupling. *ELife*, **2021**, 10,	8.9	23
43	Guidelines for the measurement of vascular function and structure in isolated arteries and veins. *American Journal of Physiology - Heart and Circulatory Physiology*, **2021**, 321, H77-H111	5.2	22
42	Microtubule structures underlying the sarcoplasmic reticulum support peripheral coupling sites to regulate smooth muscle contractility. *Science Signaling*, **2017**, 10,	8.8	21
41	Redox regulation of transient receptor potential channels in the endothelium. *Microcirculation*, **2017**, 24, e12329	2.9	21
40	Increased nitric oxide production following chronic hypoxia contributes to attenuated systemic vasoconstriction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2003**, 284, H1655-61	5.2	20
39	48-h Hypoxic exposure results in endothelium-dependent systemic vascular smooth muscle cell hyperpolarization. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2002**, 283, R79-85	3.2	20
38	Nanoscale remodeling of ryanodine receptor cluster size underlies cerebral microvascular dysfunction in Duchenne muscular dystrophy. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E9745-E9752	11.5	20
37	Hypoxia-induced pulmonary endothelin-1 expression is unaltered by nitric oxide. *Journal of Applied Physiology*, **2002**, 92, 1152-8	3.7	19
36	Control of urinary bladder smooth muscle excitability by the TRPM4 channel modulator 9-phenanthrol. *Channels*, **2013**, 7, 537-40	3	17
35	SOCE mediated by STIM and Orai is essential for pacemaker activity in the interstitial cells of Cajal in the gastrointestinal tract. *Science Signaling*, **2018**, 11,	8.8	16
34	Nanoscale coupling of junctophilin-2 and ryanodine receptors regulates vascular smooth muscle cell contractility. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 21874-21881	11.5	16

33	Regulation of cerebral artery smooth muscle membrane potential by Ca□+-activated cation channels. *Microcirculation*, **2013**, 20, 337-47	2.9	15
32	Basal protein kinase C□activity is required for membrane localization and activity of TRPM4 channels in cerebral artery smooth muscle cells. *Channels*, **2011**, 5, 210-4	3	15
31	Reduction in TRPC4 expression specifically attenuates G-protein coupled receptor-stimulated increases in intracellular calcium in human myometrial cells. *Cell Calcium*, **2009**, 46, 73-84	4	14
30	Distribution and evolution of sequence characteristics in the E. coli genome. *Journal of Biomolecular Structure and Dynamics*, **1986**, 4, 291-307	3.6	13
29	Isolation and Cannulation of Cerebral Parenchymal Arterioles. *Journal of Visualized Experiments*, **2016**,	1.6	12
28	TRPML1 channels initiate Ca sparks in vascular smooth muscle cells. *Science Signaling*, **2020**, 13,	8.8	11
27	Dopaminergic neurotoxicants cause biphasic inhibition of purinergic calcium signaling in astrocytes. *PLoS ONE*, **2014**, 9, e110996	3.7	9
26	Differential expression of angiotensin II type 1 receptor subtypes within the cerebral microvasculature. *American Journal of Physiology - Heart and Circulatory Physiology*, **2020**, 318, H461-H469	5.2	9
25	Overexpression of the neuronal human (pro)renin receptor mediates angiotensin II-independent blood pressure regulation in the central nervous system. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 314, H580-H592	5.2	7
24	Molecular diversity of receptor operated channels in vascular smooth muscle: a role for heteromultimeric TRP channels?. *Circulation Research*, **2006**, 98, 1462-4	15.7	7
23	The intracellular Ca release channel TRPML1 regulates lower urinary tract smooth muscle contractility. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 30775-30786	11.5	7
22	Central role of Ca2+-dependent regulation of vascular tone in vivo. *Journal of Applied Physiology*, **2006**, 101, 10-1	3.7	6
21	Identification of polypeptides encoded by cloned pJM1 iron uptake DNA isolated from Vibrio anguillarum 775. *Journal of Bacteriology*, **1989**, 171, 2293-302	3.5	6
20	Nitric Oxide Signals Through IRAG to Inhibit TRPM4 Channels and Dilate Cerebral Arteries. *Function*, **2021**, 2, zqab051	6.1	5
19	Functional Significance of Transient Receptor Potential Channels in Vascular Function. *Frontiers in Neuroscience*, **2006**, 361-376		4
18	(Sub)family feud: crosstalk between TRPC channels in vascular smooth muscle cells during vasoconstrictor agonist stimulation. *Journal of Physiology*, **2010**, 588, 3637-8	3.9	2
17	STIM1-dependent peripheral coupling governs the contractility of vascular smooth muscle cells.. *ELife*, **2022**, 11,	8.9	2
16	Transient Receptor Potential Channel Ankyrin 1: A Unique Regulator of Vascular Function. *Cells*, **2021**, 10,	7.9	2

15	Regulation of vascular tone by transient receptor potential ankyrin 1 channels. *Current Topics in Membranes*, **2020**, 85, 119-150	2.2	1
14	Cerebral Capillary TRPA1 Channels Mediate Functional Hyperemia via Retrograde Conducted Vasodilation. *FASEB Journal*, **2018**, 32, 843.7	0.9	1
13	Brain Endothelial Cell TRPA1 Channels Initiate Neurovascular Coupling		1
12	Recruitment of dynamic cerebral artery endothelial Ca2+ signals by the TRPA1 channel activator AITC. *FASEB Journal*, **2012**, 26, 853.2	0.9	1
11	Reply to Boedtkjer and Aalkjaer.. *American Journal of Physiology - Heart and Circulatory Physiology*, **2022**, 322, H687-H688	5.2	1
10	STIM1 is the key that unlocks airway smooth muscle remodeling and hyperresponsiveness during asthma.. *Cell Calcium*, **2022**, 104, 102589	4	1
9	Endothelial TRPA1 Channels Are Activated by Hypoxia in Cerebral Arteries and Protect Against Ischemic Damage. *FASEB Journal*, **2018**, 32, 900.5	0.9	
8	Junctophilin-2 Supports Functional Coupling Between Type 2 Ryanodine Receptors and BK Channels in Vascular Smooth Muscle Cells. *FASEB Journal*, **2018**, 32, 843.6	0.9	
7	TRPA1 mediates NADPH oxidase-dependent cerebral artery dilation (1079.1). *FASEB Journal*, **2014**, 28, 1079.1	0.9	
6	Endothelial Cell TRPA1 Channel Activity Delays the Onset of Hypertension-Associated Hemorrhagic Stroke. *FASEB Journal*, **2015**, 29, 795.3	0.9	
5	TRPV3 Sparklets Mediate Endothelium-Dependent Dilation of Cerebral Parenchymal Arterioles. *FASEB Journal*, **2015**, 29, 795.2	0.9	
4	Microtubules Couple Sarcoplasmic Reticulum Calcium Release to TRPM4 and BK Channel Activation in Cerebral Artery Myocytes. *FASEB Journal*, **2015**, 29, 795.9	0.9	
3	The Angiotensin II Type-1 Receptor Is a Mechanosensor in Cerebral Parenchymal Arteriole Smooth Muscle Cells. *FASEB Journal*, **2015**, 29, 832.1	0.9	
2	Metabolic Control of Cardiac Pacemaking.. *Function*, **2021**, 2, zqab043	6.1	
1	Reply to De Mey et al.. *American Journal of Physiology - Heart and Circulatory Physiology*, **2022**, 322, H683-H684	5.2	