William F Jackson

List of Publications by Year in Descending Order

98 papers	2,422 citations	27 h-index	48 g-index
113 ext. papers	2,778 ext. citations	4.3 avg, IF	5.83 L-index

#	Paper	IF	Citations
98	Endothelial Ion Channels and Cell-Cell Communication in the Microcirculation.. *Frontiers in Physiology*, **2022**, 13, 805149	4.6	4
97	Tuning the signal: ATP-sensitive K channels direct blood flow to cerebral capillaries.. *Science Signaling*, **2022**, 15, eabo1118	8.8	
96	Genetic ablation of smooth muscle K2.1 is inconsequential to the function of mouse cerebral arteries.. *Journal of Cerebral Blood Flow and Metabolism*, **2022**, 271678X221093432	7.3	0
95	Calcium-Dependent Ion Channels and the Regulation of Arteriolar Myogenic Tone. *Frontiers in Physiology*, **2021**, 12, 770450	4.6	3
94	Myogenic Tone in Peripheral Resistance Arteries and Arterioles: The Pressure Is On!. *Frontiers in Physiology*, **2021**, 12, 699517	4.6	7
93	Soluble epoxide hydrolase inhibition improves cognitive function and parenchymal artery dilation in a hypertensive model of chronic cerebral hypoperfusion. *Microcirculation*, **2021**, 28, e12653	2.9	6
92	Ion channels and the regulation of myogenic tone in peripheral arterioles. *Current Topics in Membranes*, **2020**, 85, 19-58	2.2	5
91	Introduction to ion channels and calcium signaling in the microcirculation. *Current Topics in Membranes*, **2020**, 85, 1-18	2.2	2
90	Carotid Artery Stiffness and Elasticity in Angiotensin II Treated Mice. *FASEB Journal*, **2020**, 34, 1-1	0.9	
89	Transient receptor potential vanilloid 4 channels are important regulators of parenchymal arteriole dilation and cognitive function. *Microcirculation*, **2019**, 26, e12535	2.9	9
88	Endothelial Mineralocorticoid Receptor Mediates Cerebrovascular Dysfunction in Parenchymal Arterioles during Angiotensin II-Hypertension. *FASEB Journal*, **2019**, 33, 688.5	0.9	
87	High Fat Diet Consumption and its Association with Parenchymal Arteriole Structure and Cognition. *FASEB Journal*, **2019**, 33, 688.3	0.9	
86	Loss-of-Function Mutations in Human Regulator of G Protein Signaling RGS2 Differentially Regulate Pharmacological Reactivity of Resistance Vasculature. *Molecular Pharmacology*, **2019**, 96, 826-834	4.3	5
85	K channels and the regulation of vascular smooth muscle tone. *Microcirculation*, **2018**, 25, e12421	2.9	66
84	Carotid artery stenosis in hypertensive rats impairs dilatory pathways in parenchymal arterioles. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 314, H122-H130	5.2	9
83	Mineralocorticoid receptor antagonism improves parenchymal arteriole dilation via a TRPV4-dependent mechanism and prevents cognitive dysfunction in hypertension. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 315, H1304-H1315	5.2	22
82	Mineralocorticoid Receptor Signaling Regulates Parenchymal Arteriole Vasodilation and Cognitive Function. *FASEB Journal*, **2018**, 32, 711.14	0.9	

81	Mineralocorticoid Receptor Signaling Regulates Parenchymal Arteriole Vasodilation and Cognitive Function. *FASEB Journal*, **2018**, 32, 843.32	0.9	
80	Voltage-gated Ca channel activity modulates smooth muscle cell calcium waves in hamster cremaster arterioles. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 315, H871-H878	5.2	6
79	Potassium Channels in Regulation of Vascular Smooth Muscle Contraction and Growth. *Advances in Pharmacology*, **2017**, 78, 89-144	5.7	50
78	Increased amplitude of inward rectifier K currents with advanced age in smooth muscle cells of murine superior epigastric arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **2017**, 312, H1203-H1214	5.2	7
77	T-type voltage-gated Ca channels do not contribute to the negative feedback regulation of myogenic tone in murine superior epigastric arteries. *Pharmacology Research and Perspectives*, **2017** , 5, e00320	3.1	4
76	Smooth Muscle Ion Channels and Regulation of Vascular Tone in Resistance Arteries and Arterioles. *Comprehensive Physiology*, **2017**, 7, 485-581	7.7	138
75	Endothelial Mineralocorticoid Receptor Mediates Parenchymal Arteriole and Posterior Cerebral Artery Remodeling During Angiotensin II-Induced Hypertension. *Hypertension*, **2017**, 70, 1113-1121	8.5	26
74	Regional heterogeneity in the mechanisms of myogenic tone in hamster arterioles. *American Journal of Physiology - Heart and Circulatory Physiology*, **2017**, 313, H667-H675	5.2	8
73	Boosting the signal: Endothelial inward rectifier K channels. *Microcirculation*, **2017**, 24, e12319	2.9	18
72	Arteriolar oxygen reactivity: where is the sensor and what is the mechanism of action?. *Journal of Physiology*, **2016**, 594, 5055-77	3.9	19
71	DOCA-salt hypertension impairs artery function in rat middle cerebral artery and parenchymal arterioles. *Microcirculation*, **2016**, 23, 571-579	2.9	6
70	Endothelial Cell Ion Channel Expression and Function in Arterioles and Resistance Arteries **2016**, 3-36		7
69	Regional heterogeneity in the reactivity of equine small pulmonary blood vessels. *Journal of Applied Physiology*, **2016**, 120, 599-607	3.7	4
68	Bilateral common carotid artery stenosis in normotensive rats impairs endothelium-dependent dilation of parenchymal arterioles. *American Journal of Physiology - Heart and Circulatory Physiology*, **2016**, 310, H1321-9	5.2	22
67	Aging is associated with changes to the biomechanical properties of the posterior cerebral artery and parenchymal arterioles. *American Journal of Physiology - Heart and Circulatory Physiology*, **2016**, 310, H365-75	5.2	34
66	Regulation of myogenic tone and structure of parenchymal arterioles by hypertension and the mineralocorticoid receptor. *American Journal of Physiology - Heart and Circulatory Physiology*, **2015**, 309, H127-36	5.2	42
65	Divergent signaling mechanisms for venous versus arterial contraction as revealed by endothelin-1. *Journal of Vascular Surgery*, **2015**, 62, 721-33	3.5	7
64	Organic cation transporter 3 contributes to norepinephrine uptake into perivascular adipose tissue. *American Journal of Physiology - Heart and Circulatory Physiology*, **2015**, 309, H1904-14	5.2	33

63	Lung region and racing affect mechanical properties of equine pulmonary microvasculature. *Journal of Applied Physiology*, **2014**, 117, 370-6	3.7	13
62	Perivascular adipose tissue contains functional catecholamines. *Pharmacology Research and Perspectives*, **2014**, 2, e00041	3.1	40
61	Aging increases capacitance and spontaneous transient outward current amplitude of smooth muscle cells from murine superior epigastric arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **2014**, 306, H1512-24	5.2	13
60	Ryanodine receptors are uncoupled from contraction in rat vena cava. *Cell Calcium*, **2013**, 53, 112-9	4	5
59	Aging increases the amplitude of spontaneous transient outward currents in murine resistance artery smooth muscle cells. *FASEB Journal*, **2013**, 27, 679.4	0.9	
58	Angiotensin II-independent Activation of AT1 Receptors in Skeletal Muscle Arterioles. *FASEB Journal*, **2013**, 27, 678.13	0.9	
57	Mechanisms of endothelial dysfunction in penetrating cerebral arterioles of DOCA-salt hypertensive rats. *FASEB Journal*, **2013**, 27, 678.7	0.9	
56	Function and expression of ryanodine receptors and inositol 1,4,5-trisphosphate receptors in smooth muscle cells of murine feed arteries and arterioles. *Journal of Physiology*, **2012**, 590, 1849-69	3.9	46
55	Reverse-mode Na+/Ca2+ exchange is an important mediator of venous contraction. *Pharmacological Research*, **2012**, 66, 544-54	10.2	7
54	Microcirculation **2012**, 1197-1206		5
53	Contraction of rat vena cava by endothelin-1 is dependent on phospholipase-C□, but independent of IP3 receptor activation. *FASEB Journal*, **2012**, 26, 1049.3	0.9	
52	Aging differentially alters calcium signals and myogenic tone in murine cremaster muscle feed arteries and downstream arterioles. *FASEB Journal*, **2012**, 26, 861.3	0.9	
51	An imaging apparatus for simultaneous measurement of isometric contraction and Ca2+ fluorescence in large blood vessels of the rat. *FASEB Journal*, **2012**, 26, 870.31	0.9	
50	Temperature effects on morphological integrity and Ca□+ signaling in freshly isolated murine feed artery endothelial cell tubes. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 301, H773-83	5.2	25
49	Altered expression and function of ryanodine receptors and FKBP12.6 after subarachnoid hemorrhage: more than meets the eye. *Journal of Cerebral Blood Flow and Metabolism*, **2011**, 31, 1-2	7.3	30
48	Quick change artist: endothelium-derived relaxing factor in resistance arteries. *Hypertension*, **2011**, 57, 686-8	8.5	
47	Heterogeneous function of ryanodine receptors, but not IP3 receptors, in hamster cremaster muscle feed arteries and arterioles. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 300, H1616-30	5.2	42
46	Endothelin-1 increases the frequency of smooth muscle calcium waves in vena cava but not aorta. *FASEB Journal*, **2011**, 25, 1026.2	0.9	

45	Regional heterogeneity of □adrenoreceptor subtypes in arteriolar networks of mouse skeletal muscle. *Journal of Physiology*, **2010**, 588, 4261-74	3.9	35
44	KV1.3: a new therapeutic target to control vascular smooth muscle cell proliferation. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 1073-4	9.4	8
43	Differences in expression and function of ryanodine receptors between arteries and arterioles in the mouse. *FASEB Journal*, **2010**, 24, 777.5	0.9	
42	Functional adrenoreceptor distribution in arteriolar networks of mouse gluteus maximus muscle. *FASEB Journal*, **2010**, 24, 976.5	0.9	
41	IP3 receptors, but not ryanodine receptors mediate subsarcolemmal Ca2+ oscillations in arteriolar smooth muscle cells. *FASEB Journal*, **2009**, 23, 767.3	0.9	
40	Smooth muscle alpha1D-adrenoceptors mediate phenylephrine-induced vasoconstriction and increases in endothelial cell Ca2+ in hamster cremaster arterioles. *British Journal of Pharmacology*, **2008**, 155, 514-24	8.6	52
39	Vanishing act: protein kinase C-dependent internalization of adenosine 5Rtriphosphate-sensitive K+ channels. *Hypertension*, **2008**, 52, 470-2	8.5	1
38	Connexin isoform expression in smooth muscle cells and endothelial cells of hamster cheek pouch arterioles and retractor feed arteries. *Microcirculation*, **2008**, 15, 503-14	2.9	44
37	Do different Ca entry mechanisms mediate Endothelin-1-induced contraction of rat aorta and vena cava?. *FASEB Journal*, **2008**, 22, 744.15	0.9	
36	Ca2+-activated K+ channels are controlled by Ca2+ influx through voltage-gated Ca2+ channels, not the release of Ca2+ through ryanodine receptors in arteriolar smooth muscle. *FASEB Journal*, **2008**, 22, 1142.2	0.9	1
35	Smooth muscle □1D-adrenoreceptors mediate phenylephrine-induced endothelial Ca2+ transients in hamster cremaster arterioles. *FASEB Journal*, **2008**, 22, 1149.4	0.9	
34	Connexin isoform expression in microvascular smooth muscle and endothelium. *FASEB Journal*, **2007**, 21, A1217	0.9	
33	Inward rectifying potassium channels facilitate cell-to-cell communication in hamster retractor muscle feed arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 291, H1319-28	5.2	79
32	Activation of potassium channels by tempol in arterial smooth muscle cells from normotensive and deoxycorticosterone acetate-salt hypertensive rats. *Hypertension*, **2006**, 48, 1080-7	8.5	35
31	Silent inward rectifier K+ channels in hypercholesterolemia. *Circulation Research*, **2006**, 98, 982-4	15.7	8
30	Arteriolar smooth muscle Ca2+ dynamics during blood flow control in hamster cheek pouch. *Journal of Applied Physiology*, **2006**, 101, 307-15	3.7	25
29	Functional activity of BKCa channels is not coupled to the activity of ryanodine receptors in hamster cheek pouch arterioles. *FASEB Journal*, **2006**, 20, A270	0.9	
28	Arteriolar smooth muscle calcium dynamics in hamster cheek pouch in vivo. *FASEB Journal*, **2006**, 20, A273	0.9	

27	Potassium channels and proliferation of vascular smooth muscle cells. *Circulation Research*, **2005**, 97, 1211-2	15.7	23
26	Potassium channels in the peripheral microcirculation. *Microcirculation*, **2005**, 12, 113-27	2.9	264
25	Membrane hyperpolarization is not required for sustained muscarinic agonist-induced increases in intracellular Ca2+ in arteriolar endothelial cells. *Microcirculation*, **2005**, 12, 169-82	2.9	35
24	K+-induced dilation of hamster cremasteric arterioles involves both the Na+/K+-ATPase and inward-rectifier K+ channels. *Microcirculation*, **2004**, 11, 279-93	2.9	80
23	Hypoxia inhibits contraction but not calcium channel currents or changes in intracellular calcium in arteriolar muscle cells. *Microcirculation*, **2003**, 10, 133-41	2.9	8
22	CB(1) receptor antagonist SR141716A inhibits Ca(2+)-induced relaxation in CB(1) receptor-deficient mice. *Hypertension*, **2002**, 39, 251-7	8.5	55
21	Potassium Channels in the Circulation of Skeletal Muscle **2001**, 505-522		2
20	Hypoxia Does Not Activate ATP-Sensitive K+ Channels in Arteriolar Muscle Cells. *Microcirculation*, **2000**, 7, 137-145	2.9	21
19	Hypoxia Does Not Activate ATP-Sensitive K+Channels in Arteriolar Muscle Cells. *Microcirculation*, **2000**, 7, 137-145	2.9	17
18	Ion channels and vascular tone. *Hypertension*, **2000**, 35, 173-8	8.5	373
17	Cytochrome P-450 omega-hydroxylase senses O2 in hamster muscle, but not cheek pouch epithelium, microcirculation. *American Journal of Physiology - Heart and Circulatory Physiology*, **1999** , 276, H503-8	5.2	27
16	Potassium Channels and Regulation of the Microcirculation. *Microcirculation*, **1998**, 5, 85-90	2.9	35
15	Characterization and function of Ca(2+)-activated K+ channels in arteriolar muscle cells. *American Journal of Physiology - Heart and Circulatory Physiology*, **1998**, 274, H27-34	5.2	63
14	Oxygen induces electromechanical coupling in arteriolar smooth muscle cells: a role for L-type Ca2+ channels. *American Journal of Physiology - Heart and Circulatory Physiology*, **1998**, 274, H2018-24	5.2	41
13	Intracellular acidosis differentially regulates KV channels in coronary and pulmonary vascular muscle. *American Journal of Physiology - Heart and Circulatory Physiology*, **1998**, 275, H1351-9	5.2	29
12	Enzymatic isolation and characterization of single vascular smooth muscle cells from cremasteric arterioles. *Microcirculation*, **1997**, 4, 35-50	2.9	71
11	Rp diastereomeric analogs of cAMP inhibit both cAMP- and cGMP-induced dilation of hamster mesenteric small arteries. *Pharmacology*, **1996**, 52, 226-34	2.3	9
10	Enzymatic isolation and characterization of single vascular smooth muscle cells from cremasteric arterioles. *Microcirculation*, **1996**, 3, 313-28	2.9	25

9	Selective in vivo antagonism of pinacidil-induced hypotension by the guanidine U37883A in anesthetized rats. *Pharmacology*, **1994**, 49, 363-75	2.3	9
8	Modulation of vascular reactivity to serotonin in the dog lung. *Journal of Applied Physiology*, **1991**, 71, 217-22	3.7	11
7	Hemodynamic changes. Wall stresses and pressure gradients in neural crest-ablated chick embryos. *Annals of the New York Academy of Sciences*, **1990**, 588, 305-13	6.5	18
6	Neural Crest Ablation Does Not Alter Ventricular Pressure or Estimated Cardiac Output Despite Altered Morphologya. *Annals of the New York Academy of Sciences*, **1990**, 588, 389-392	6.5	2
5	The endothelium-derived relaxing factor. *Journal of Reconstructive Microsurgery*, **1989**, 5, 263-71	2.5	6
4	Oscillations in active tension in hamster aortas: role of the endothelium. *Journal of Vascular Research*, **1988**, 25, 144-56	1.9	8
3	The oxygen sensitivity of hamster cheek pouch arterioles. In vitro and in situ studies. *Circulation Research*, **1983**, 53, 515-25	15.7	84
2	Effect of acute acid stress on isolated perfused gills of rainbow trout. *Comparative Biochemistry and Physiology Part C: Comparative Pharmacology*, **1980**, 67C, 141-5		
1	Potassium Channels and Regulation of the Microcirculation. *Microcirculation*,5, 85-90	2.9	10