

# William F Jackson

## List of Publications by Citations

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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	Ion channels and vascular tone. <i>Hypertension</i> , <b>2000</b> , 35, 173-8	8.5	373
97	Potassium channels in the peripheral microcirculation. <i>Microcirculation</i> , <b>2005</b> , 12, 113-27	2.9	264
96	Smooth Muscle Ion Channels and Regulation of Vascular Tone in Resistance Arteries and Arterioles. <i>Comprehensive Physiology</i> , <b>2017</b> , 7, 485-581	7.7	138
95	The oxygen sensitivity of hamster cheek pouch arterioles. In vitro and in situ studies. <i>Circulation Research</i> , <b>1983</b> , 53, 515-25	15.7	84
94	K <sup>+</sup> -induced dilation of hamster cremasteric arterioles involves both the Na <sup>+</sup> /K <sup>+</sup> -ATPase and inward-rectifier K <sup>+</sup> channels. <i>Microcirculation</i> , <b>2004</b> , 11, 279-93	2.9	80
93	Inward rectifying potassium channels facilitate cell-to-cell communication in hamster retractor muscle feed arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2006</b> , 291, H1319-28	5.2	79
92	Enzymatic isolation and characterization of single vascular smooth muscle cells from cremasteric arterioles. <i>Microcirculation</i> , <b>1997</b> , 4, 35-50	2.9	71
91	K channels and the regulation of vascular smooth muscle tone. <i>Microcirculation</i> , <b>2018</b> , 25, e12421	2.9	66
90	Characterization and function of Ca <sup>2+</sup> -activated K <sup>+</sup> channels in arteriolar muscle cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>1998</b> , 274, H27-34	5.2	63
89	CB(1) receptor antagonist SR141716A inhibits Ca <sup>2+</sup> -induced relaxation in CB(1) receptor-deficient mice. <i>Hypertension</i> , <b>2002</b> , 39, 251-7	8.5	55
88	Smooth muscle alpha <sub>1D</sub> -adrenoceptors mediate phenylephrine-induced vasoconstriction and increases in endothelial cell Ca <sup>2+</sup> in hamster cremaster arterioles. <i>British Journal of Pharmacology</i> , <b>2008</b> , 155, 514-24	8.6	52
87	Potassium Channels in Regulation of Vascular Smooth Muscle Contraction and Growth. <i>Advances in Pharmacology</i> , <b>2017</b> , 78, 89-144	5.7	50
86	Function and expression of ryanodine receptors and inositol 1,4,5-trisphosphate receptors in smooth muscle cells of murine feed arteries and arterioles. <i>Journal of Physiology</i> , <b>2012</b> , 590, 1849-69	3.9	46
85	Connexin isoform expression in smooth muscle cells and endothelial cells of hamster cheek pouch arterioles and retractor feed arteries. <i>Microcirculation</i> , <b>2008</b> , 15, 503-14	2.9	44
84	Regulation of myogenic tone and structure of parenchymal arterioles by hypertension and the mineralocorticoid receptor. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2015</b> , 309, H127-36	5.2	42
83	Heterogeneous function of ryanodine receptors, but not IP <sub>3</sub> receptors, in hamster cremaster muscle feed arteries and arterioles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2011</b> , 300, H1616-30	5.2	42
82	Oxygen induces electromechanical coupling in arteriolar smooth muscle cells: a role for L-type Ca <sup>2+</sup> channels. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>1998</b> , 274, H2018-24	5.2	41

81	Perivascular adipose tissue contains functional catecholamines. <i>Pharmacology Research and Perspectives</i> , <b>2014</b> , 2, e00041	3.1	40
80	Regional heterogeneity of $\beta$ adrenoreceptor subtypes in arteriolar networks of mouse skeletal muscle. <i>Journal of Physiology</i> , <b>2010</b> , 588, 4261-74	3.9	35
79	Potassium Channels and Regulation of the Microcirculation. <i>Microcirculation</i> , <b>1998</b> , 5, 85-90	2.9	35
78	Activation of potassium channels by tempol in arterial smooth muscle cells from normotensive and deoxycorticosterone acetate-salt hypertensive rats. <i>Hypertension</i> , <b>2006</b> , 48, 1080-7	8.5	35
77	Membrane hyperpolarization is not required for sustained muscarinic agonist-induced increases in intracellular $Ca^{2+}$ in arteriolar endothelial cells. <i>Microcirculation</i> , <b>2005</b> , 12, 169-82	2.9	35
76	Aging is associated with changes to the biomechanical properties of the posterior cerebral artery and parenchymal arterioles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2016</b> , 310, H365-75	5.2	34
75	Organic cation transporter 3 contributes to norepinephrine uptake into perivascular adipose tissue. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2015</b> , 309, H1904-14	5.2	33
74	Altered expression and function of ryanodine receptors and FKBP12.6 after subarachnoid hemorrhage: more than meets the eye. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2011</b> , 31, 1-2	7.3	30
73	Intracellular acidosis differentially regulates KV channels in coronary and pulmonary vascular muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>1998</b> , 275, H1351-9	5.2	29
72	Cytochrome P-450 omega-hydroxylase senses $O_2$ in hamster muscle, but not cheek pouch epithelium, microcirculation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>1999</b> , 276, H503-8	5.2	27
71	Endothelial Mineralocorticoid Receptor Mediates Parenchymal Arteriole and Posterior Cerebral Artery Remodeling During Angiotensin II-Induced Hypertension. <i>Hypertension</i> , <b>2017</b> , 70, 1113-1121	8.5	26
70	Temperature effects on morphological integrity and $Ca^{2+}$ signaling in freshly isolated murine feed artery endothelial cell tubes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2011</b> , 301, H773-83	5.2	25
69	Arteriolar smooth muscle $Ca^{2+}$ dynamics during blood flow control in hamster cheek pouch. <i>Journal of Applied Physiology</i> , <b>2006</b> , 101, 307-15	3.7	25
68	Enzymatic isolation and characterization of single vascular smooth muscle cells from cremasteric arterioles. <i>Microcirculation</i> , <b>1996</b> , 3, 313-28	2.9	25
67	Potassium channels and proliferation of vascular smooth muscle cells. <i>Circulation Research</i> , <b>2005</b> , 97, 1211-2	15.7	23
66	Mineralocorticoid receptor antagonism improves parenchymal arteriole dilation via a TRPV4-dependent mechanism and prevents cognitive dysfunction in hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2018</b> , 315, H1304-H1315	5.2	22
65	Bilateral common carotid artery stenosis in normotensive rats impairs endothelium-dependent dilation of parenchymal arterioles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2016</b> , 310, H1321-9	5.2	22
64	Hypoxia Does Not Activate ATP-Sensitive $K^+$ Channels in Arteriolar Muscle Cells. <i>Microcirculation</i> , <b>2000</b> , 7, 137-145	2.9	21

63	Arteriolar oxygen reactivity: where is the sensor and what is the mechanism of action?. <i>Journal of Physiology</i> , <b>2016</b> , 594, 5055-77	3.9	19
62	Boosting the signal: Endothelial inward rectifier K channels. <i>Microcirculation</i> , <b>2017</b> , 24, e12319	2.9	18
61	Hemodynamic changes. Wall stresses and pressure gradients in neural crest-ablated chick embryos. <i>Annals of the New York Academy of Sciences</i> , <b>1990</b> , 588, 305-13	6.5	18
60	Hypoxia Does Not Activate ATP-Sensitive K <sup>+</sup> Channels in Arteriolar Muscle Cells. <i>Microcirculation</i> , <b>2000</b> , 7, 137-145	2.9	17
59	Lung region and racing affect mechanical properties of equine pulmonary microvasculature. <i>Journal of Applied Physiology</i> , <b>2014</b> , 117, 370-6	3.7	13
58	Aging increases capacitance and spontaneous transient outward current amplitude of smooth muscle cells from murine superior epigastric arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2014</b> , 306, H1512-24	5.2	13
57	Modulation of vascular reactivity to serotonin in the dog lung. <i>Journal of Applied Physiology</i> , <b>1991</b> , 71, 217-22	3.7	11
56	Potassium Channels and Regulation of the Microcirculation. <i>Microcirculation</i> , <b>5</b> , 85-90	2.9	10
55	Transient receptor potential vanilloid 4 channels are important regulators of parenchymal arteriole dilation and cognitive function. <i>Microcirculation</i> , <b>2019</b> , 26, e12535	2.9	9
54	Carotid artery stenosis in hypertensive rats impairs dilatory pathways in parenchymal arterioles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2018</b> , 314, H122-H130	5.2	9
53	Rp diastereomeric analogs of cAMP inhibit both cAMP- and cGMP-induced dilation of hamster mesenteric small arteries. <i>Pharmacology</i> , <b>1996</b> , 52, 226-34	2.3	9
52	Selective in vivo antagonism of pinacidil-induced hypotension by the guanidine U37883A in anesthetized rats. <i>Pharmacology</i> , <b>1994</b> , 49, 363-75	2.3	9
51	Regional heterogeneity in the mechanisms of myogenic tone in hamster arterioles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2017</b> , 313, H667-H675	5.2	8
50	KV1.3: a new therapeutic target to control vascular smooth muscle cell proliferation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2010</b> , 30, 1073-4	9.4	8
49	Silent inward rectifier K <sup>+</sup> channels in hypercholesterolemia. <i>Circulation Research</i> , <b>2006</b> , 98, 982-4	15.7	8
48	Oscillations in active tension in hamster aortas: role of the endothelium. <i>Journal of Vascular Research</i> , <b>1988</b> , 25, 144-56	1.9	8
47	Hypoxia inhibits contraction but not calcium channel currents or changes in intracellular calcium in arteriolar muscle cells. <i>Microcirculation</i> , <b>2003</b> , 10, 133-41	2.9	8
46	Increased amplitude of inward rectifier K currents with advanced age in smooth muscle cells of murine superior epigastric arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2017</b> , 312, H1203-H1214	5.2	7

45	Divergent signaling mechanisms for venous versus arterial contraction as revealed by endothelin-1. <i>Journal of Vascular Surgery</i> , <b>2015</b> , 62, 721-33	3.5	7
44	Reverse-mode Na <sup>+</sup> /Ca <sup>2+</sup> exchange is an important mediator of venous contraction. <i>Pharmacological Research</i> , <b>2012</b> , 66, 544-54	10.2	7
43	Endothelial Cell Ion Channel Expression and Function in Arterioles and Resistance Arteries <b>2016</b> , 3-36		7
42	Myogenic Tone in Peripheral Resistance Arteries and Arterioles: The Pressure Is On!. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 699517	4.6	7
41	DOCA-salt hypertension impairs artery function in rat middle cerebral artery and parenchymal arterioles. <i>Microcirculation</i> , <b>2016</b> , 23, 571-579	2.9	6
40	The endothelium-derived relaxing factor. <i>Journal of Reconstructive Microsurgery</i> , <b>1989</b> , 5, 263-71	2.5	6
39	Soluble epoxide hydrolase inhibition improves cognitive function and parenchymal artery dilation in a hypertensive model of chronic cerebral hypoperfusion. <i>Microcirculation</i> , <b>2021</b> , 28, e12653	2.9	6
38	Voltage-gated Ca channel activity modulates smooth muscle cell calcium waves in hamster cremaster arterioles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2018</b> , 315, H871-H878	5.2	6
37	Ion channels and the regulation of myogenic tone in peripheral arterioles. <i>Current Topics in Membranes</i> , <b>2020</b> , 85, 19-58	2.2	5
36	Ryanodine receptors are uncoupled from contraction in rat vena cava. <i>Cell Calcium</i> , <b>2013</b> , 53, 112-9	4	5
35	Microcirculation <b>2012</b> , 1197-1206		5
34	Loss-of-Function Mutations in Human Regulator of G Protein Signaling RGS2 Differentially Regulate Pharmacological Reactivity of Resistance Vasculature. <i>Molecular Pharmacology</i> , <b>2019</b> , 96, 826-834	4.3	5
33	T-type voltage-gated Ca channels do not contribute to the negative feedback regulation of myogenic tone in murine superior epigastric arteries. <i>Pharmacology Research and Perspectives</i> , <b>2017</b> , 5, e00320	3.1	4
32	Endothelial Ion Channels and Cell-Cell Communication in the Microcirculation.. <i>Frontiers in Physiology</i> , <b>2022</b> , 13, 805149	4.6	4
31	Regional heterogeneity in the reactivity of equine small pulmonary blood vessels. <i>Journal of Applied Physiology</i> , <b>2016</b> , 120, 599-607	3.7	4
30	Calcium-Dependent Ion Channels and the Regulation of Arteriolar Myogenic Tone. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 770450	4.6	3
29	Introduction to ion channels and calcium signaling in the microcirculation. <i>Current Topics in Membranes</i> , <b>2020</b> , 85, 1-18	2.2	2
28	Neural Crest Ablation Does Not Alter Ventricular Pressure or Estimated Cardiac Output Despite Altered Morphology. <i>Annals of the New York Academy of Sciences</i> , <b>1990</b> , 588, 389-392	6.5	2

27	Potassium Channels in the Circulation of Skeletal Muscle <b>2001</b> , 505-522		2
26	Vanishing act: protein kinase C-dependent internalization of adenosine 5Rtriphosphate-sensitive K <sup>+</sup> channels. <i>Hypertension</i> , <b>2008</b> , 52, 470-2	8.5	1
25	Ca <sup>2+</sup> -activated K <sup>+</sup> channels are controlled by Ca <sup>2+</sup> influx through voltage-gated Ca <sup>2+</sup> channels, not the release of Ca <sup>2+</sup> through ryanodine receptors in arteriolar smooth muscle. <i>FASEB Journal</i> , <b>2008</b> , 22, 1142.2	0.9	1
24	Genetic ablation of smooth muscle K2.1 is inconsequential to the function of mouse cerebral arteries.. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2022</b> , 271678X221093432	7.3	0
23	Quick change artist: endothelium-derived relaxing factor in resistance arteries. <i>Hypertension</i> , <b>2011</b> , 57, 686-8	8.5	
22	Effect of acute acid stress on isolated perfused gills of rainbow trout. <i>Comparative Biochemistry and Physiology Part C: Comparative Pharmacology</i> , <b>1980</b> , 67C, 141-5		
21	Carotid Artery Stiffness and Elasticity in Angiotensin II Treated Mice. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
20	Functional activity of BKCa channels is not coupled to the activity of ryanodine receptors in hamster cheek pouch arterioles. <i>FASEB Journal</i> , <b>2006</b> , 20, A270	0.9	
19	Arteriolar smooth muscle calcium dynamics in hamster cheek pouch in vivo. <i>FASEB Journal</i> , <b>2006</b> , 20, A273	0.9	
18	Connexin isoform expression in microvascular smooth muscle and endothelium. <i>FASEB Journal</i> , <b>2007</b> , 21, A1217	0.9	
17	Do different Ca entry mechanisms mediate Endothelin-1-induced contraction of rat aorta and vena cava?. <i>FASEB Journal</i> , <b>2008</b> , 22, 744.15	0.9	
16	Smooth muscle $\alpha_1$ D-adrenoreceptors mediate phenylephrine-induced endothelial Ca <sup>2+</sup> transients in hamster cremaster arterioles. <i>FASEB Journal</i> , <b>2008</b> , 22, 1149.4	0.9	
15	Mineralocorticoid Receptor Signaling Regulates Parenchymal Arteriole Vasodilation and Cognitive Function. <i>FASEB Journal</i> , <b>2018</b> , 32, 711.14	0.9	
14	Mineralocorticoid Receptor Signaling Regulates Parenchymal Arteriole Vasodilation and Cognitive Function. <i>FASEB Journal</i> , <b>2018</b> , 32, 843.32	0.9	
13	Endothelial Mineralocorticoid Receptor Mediates Cerebrovascular Dysfunction in Parenchymal Arterioles during Angiotensin II-Hypertension. <i>FASEB Journal</i> , <b>2019</b> , 33, 688.5	0.9	
12	High Fat Diet Consumption and its Association with Parenchymal Arteriole Structure and Cognition. <i>FASEB Journal</i> , <b>2019</b> , 33, 688.3	0.9	
11	IP3 receptors, but not ryanodine receptors mediate subsarcolemmal Ca <sup>2+</sup> oscillations in arteriolar smooth muscle cells. <i>FASEB Journal</i> , <b>2009</b> , 23, 767.3	0.9	
10	Differences in expression and function of ryanodine receptors between arteries and arterioles in the mouse. <i>FASEB Journal</i> , <b>2010</b> , 24, 777.5	0.9	

- 9 Functional adrenoceptor distribution in arteriolar networks of mouse gluteus maximus muscle. *FASEB Journal*, **2010**, 24, 976.5 0.9
- 8 Endothelin-1 increases the frequency of smooth muscle calcium waves in vena cava but not aorta. *FASEB Journal*, **2011**, 25, 1026.2 0.9
- 7 Contraction of rat vena cava by endothelin-1 is dependent on phospholipase-C $\beta$  but independent of IP3 receptor activation. *FASEB Journal*, **2012**, 26, 1049.3 0.9
- 6 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
- 5 An imaging apparatus for simultaneous measurement of isometric contraction and Ca<sup>2+</sup> fluorescence in large blood vessels of the rat. *FASEB Journal*, **2012**, 26, 870.31 0.9
- 4 Aging increases the amplitude of spontaneous transient outward currents in murine resistance artery smooth muscle cells. *FASEB Journal*, **2013**, 27, 679.4 0.9
- 3 Angiotensin II-independent Activation of AT1 Receptors in Skeletal Muscle Arterioles. *FASEB Journal*, **2013**, 27, 678.13 0.9
- 2 Mechanisms of endothelial dysfunction in penetrating cerebral arterioles of DOCA-salt hypertensive rats. *FASEB Journal*, **2013**, 27, 678.7 0.9
- 1 Tuning the signal: ATP-sensitive K channels direct blood flow to cerebral capillaries.. *Science Signaling*, **2022**, 15, eabo1118 8.8