

# Mark T Nelson

## List of Publications by Citations

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papers

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g-index

147  
ext. papers

9,331  
ext. citations

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L-index

#	Paper	IF	Citations
127	Vasoregulation by the beta1 subunit of the calcium-activated potassium channel. <i>Nature</i> , <b>2000</b> , 407, 870-6	50.4	689
126	Regulation of arterial diameter and wall [Ca <sup>2+</sup> ] in cerebral arteries of rat by membrane potential and intravascular pressure. <i>Journal of Physiology</i> , <b>1998</b> , 508 ( Pt 1), 199-209	3.9	514
125	Local potassium signaling couples neuronal activity to vasodilation in the brain. <i>Nature Neuroscience</i> , <b>2006</b> , 9, 1397-1403	25.5	420
124	Arterial dilations in response to calcitonin gene-related peptide involve activation of K <sup>+</sup> channels. <i>Nature</i> , <b>1990</b> , 344, 770-3	50.4	401
123	Elementary Ca <sup>2+</sup> signals through endothelial TRPV4 channels regulate vascular function. <i>Science</i> , <b>2012</b> , 336, 597-601	33.3	392
122	Noradrenaline contracts arteries by activating voltage-dependent calcium channels. <i>Nature</i> , <b>1988</b> , 336, 382-5	50.4	301
121	Altered expression of small-conductance Ca <sup>2+</sup> -activated K <sup>+</sup> (SK3) channels modulates arterial tone and blood pressure. <i>Circulation Research</i> , <b>2003</b> , 93, 124-31	15.7	273
120	Functional coupling of ryanodine receptors to KCa channels in smooth muscle cells from rat cerebral arteries. <i>Journal of General Physiology</i> , <b>1999</b> , 113, 229-38	3.4	248
119	Capillary K-sensing initiates retrograde hyperpolarization to increase local cerebral blood flow. <i>Nature Neuroscience</i> , <b>2017</b> , 20, 717-726	25.5	240
118	Astrocytic endfoot Ca <sup>2+</sup> and BK channels determine both arteriolar dilation and constriction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 3811-6	11.5	227
117	Ryanodine receptors regulate arterial diameter and wall [Ca <sup>2+</sup> ] in cerebral arteries of rat via Ca <sup>2+</sup> -dependent K <sup>+</sup> channels. <i>Journal of Physiology</i> , <b>1998</b> , 508 ( Pt 1), 211-21	3.9	219
116	Functional architecture of inositol 1,4,5-trisphosphate signaling in restricted spaces of myoendothelial projections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 9627-32	11.5	211
115	Calcium dynamics in cortical astrocytes and arterioles during neurovascular coupling. <i>Circulation Research</i> , <b>2004</b> , 95, e73-81	15.7	201
114	Frequency modulation of Ca <sup>2+</sup> sparks is involved in regulation of arterial diameter by cyclic nucleotides. <i>American Journal of Physiology - Cell Physiology</i> , <b>1998</b> , 274, C1346-55	5.4	180
113	Micromolar Ca(2+) from sparks activates Ca(2+)-sensitive K(+) channels in rat cerebral artery smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , <b>2001</b> , 281, C1769-75	5.4	169
112	Chloride channel blockers inhibit myogenic tone in rat cerebral arteries. <i>Journal of Physiology</i> , <b>1997</b> , 502 ( Pt 2), 259-64	3.9	151
111	Regulation of urinary bladder smooth muscle contractions by ryanodine receptors and BK and SK channels. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2000</b> , 279, R60-8	3.2	129

110	Voltage dependence of Ca <sup>2+</sup> sparks in intact cerebral arteries. <i>American Journal of Physiology - Cell Physiology</i> , <b>1998</b> , 274, C1755-61	5.4	128
109	Calcium signaling in smooth muscle. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2011</b> , 3, a004549	10.2	115
108	AKAP150-dependent cooperative TRPV4 channel gating is central to endothelium-dependent vasodilation and is disrupted in hypertension. <i>Science Signaling</i> , <b>2014</b> , 7, ra66	8.8	110
107	Kir2.1 encodes the inward rectifier potassium channel in rat arterial smooth muscle cells. <i>Journal of Physiology</i> , <b>1999</b> , 515 ( Pt 3), 639-51	3.9	110
106	Activators of protein kinase C decrease Ca <sup>2+</sup> spark frequency in smooth muscle cells from cerebral arteries. <i>American Journal of Physiology - Cell Physiology</i> , <b>1997</b> , 273, C2090-5	5.4	109
105	Swelling-activated cation channels mediate depolarization of rat cerebrovascular smooth muscle by hyposmolarity and intravascular pressure. <i>Journal of Physiology</i> , <b>2000</b> , 527 Pt 1, 139-48	3.9	107
104	Differential regulation of Ca(2+) sparks and Ca(2+) waves by UTP in rat cerebral artery smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2000</b> , 279, C1528-39	5.4	105
103	Differential regulation of SK and BK channels by Ca(2+) signals from Ca(2+) channels and ryanodine receptors in guinea-pig urinary bladder myocytes. <i>Journal of Physiology</i> , <b>2002</b> , 541, 483-92	3.9	99
102	Ontogeny of local sarcoplasmic reticulum Ca <sup>2+</sup> signals in cerebral arteries: Ca <sup>2+</sup> sparks as elementary physiological events. <i>Circulation Research</i> , <b>1998</b> , 83, 1104-14	15.7	99
101	Urinary bladder instability induced by selective suppression of the murine small conductance calcium-activated potassium (SK3) channel. <i>Journal of Physiology</i> , <b>2003</b> , 551, 893-903	3.9	99
100	Voltage dependence of the coupling of Ca(2+) sparks to BK(Ca) channels in urinary bladder smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , <b>2001</b> , 280, C481-90	5.4	89
99	Increased myogenic tone and diminished responsiveness to ATP-sensitive K <sup>+</sup> channel openers in cerebral arteries from diabetic rats. <i>Circulation Research</i> , <b>1997</b> , 81, 996-1004	15.7	89
98	Intracellular calcium events activated by ATP in murine colonic myocytes. <i>American Journal of Physiology - Cell Physiology</i> , <b>2000</b> , 279, C126-35	5.4	88
97	The K <sup>+</sup> channel KIR2.1 functions in tandem with proton influx to mediate sour taste transduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E229-38	11.5	85
96	Ion channel networks in the control of cerebral blood flow. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2016</b> , 36, 492-512	7.3	84
95	Role of phospholamban in the modulation of arterial Ca(2+) sparks and Ca(2+)-activated K(+) channels by cAMP. <i>American Journal of Physiology - Cell Physiology</i> , <b>2001</b> , 281, C1029-37	5.4	84
94	Vascular inward rectifier K <sup>+</sup> channels as external K <sup>+</sup> sensors in the control of cerebral blood flow. <i>Microcirculation</i> , <b>2015</b> , 22, 183-96	2.9	83
93	Inversion of neurovascular coupling by subarachnoid blood depends on large-conductance Ca <sup>2+</sup> -activated K <sup>+</sup> (BK) channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, E1387-95	11.5	81

92	Acidosis dilates brain parenchymal arterioles by conversion of calcium waves to sparks to activate BK channels. <i>Circulation Research</i> , <b>2012</b> , 110, 285-94	15.7	76
91	A PLC $\beta$ -dependent, force-sensitive signaling network in the myogenic constriction of cerebral arteries. <i>Science Signaling</i> , <b>2014</b> , 7, ra49	8.8	73
90	PIP depletion promotes TRPV4 channel activity in mouse brain capillary endothelial cells. <i>ELife</i> , <b>2018</b> , 7,	8.9	69
89	Inward rectifier potassium (Kir2.1) channels as end-stage boosters of endothelium-dependent vasodilators. <i>Journal of Physiology</i> , <b>2016</b> , 594, 3271-85	3.9	67
88	Low levels of K(ATP) channel activation decrease excitability and contractility of urinary bladder. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2001</b> , 280, R1427-33 <sup>3-2</sup>		64
87	Properties and molecular basis of the mouse urinary bladder voltage-gated K <sup>+</sup> current. <i>Journal of Physiology</i> , <b>2003</b> , 549, 65-74	3.9	62
86	Vascular TRP channels: performing under pressure and going with the flow. <i>Physiology</i> , <b>2014</b> , 29, 343-60 <sup>9.8</sup>		59
85	Stress-induced glucocorticoid signaling remodels neurovascular coupling through impairment of cerebrovascular inwardly rectifying K <sup>+</sup> channel function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 7462-7	11.5	58
84	Contractile pericytes determine the direction of blood flow at capillary junctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 27022-27033	11.5	56
83	Potassium channelopathy-like defect underlies early-stage cerebrovascular dysfunction in a genetic model of small vessel disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E796-805	11.5	55
82	Gender differences in coronary artery diameter reflect changes in both endothelial Ca <sup>2+</sup> and eNOS activity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>1999</b> , 276, H961-9	5.2	54
81	Reducing Timp3 or vitronectin ameliorates disease manifestations in CADASIL mice. <i>Annals of Neurology</i> , <b>2016</b> , 79, 387-403	9.4	52
80	Dysfunction of mouse cerebral arteries during early aging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2015</b> , 35, 1445-53	7.3	51
79	Traumatic Brain Injury Causes Endothelial Dysfunction in the Systemic Microcirculation through Arginase-1-Dependent Uncoupling of Endothelial Nitric Oxide Synthase. <i>Journal of Neurotrauma</i> , <b>2017</b> , 34, 192-203	5.4	47
78	Nerve-evoked purinergic signalling suppresses action potentials, Ca <sup>2+</sup> flashes and contractility evoked by muscarinic receptor activation in mouse urinary bladder smooth muscle. <i>Journal of Physiology</i> , <b>2009</b> , 587, 5275-88	3.9	44
77	Mechanistic insights into a TIMP3-sensitive pathway constitutively engaged in the regulation of cerebral hemodynamics. <i>ELife</i> , <b>2016</b> , 5,	8.9	42
76	Transient contractions of urinary bladder smooth muscle are drivers of afferent nerve activity during filling. <i>Journal of General Physiology</i> , <b>2016</b> , 147, 323-35	3.4	40
75	Pharmacological inhibitors of TRPV4 channels reduce cytokine production, restore endothelial function and increase survival in septic mice. <i>Scientific Reports</i> , <b>2016</b> , 6, 33841	4.9	39

74	Endothelial GqPCR activity controls capillary electrical signaling and brain blood flow through PIP depletion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E3569-E3577	11.5	38
73	The beta1 subunit of the Ca <sup>2+</sup> -sensitive K <sup>+</sup> channel protects against hypertension. <i>Journal of Clinical Investigation</i> , <b>2004</b> , 113, 955-7	15.9	33
72	TRPV4 and KRAS and FGFR1 gain-of-function mutations drive giant cell lesions of the jaw. <i>Nature Communications</i> , <b>2018</b> , 9, 4572	17.4	30
71	Pressure-induced oxidative activation of PKG enables vasoregulation by Ca <sup>2+</sup> sparks and BK channels. <i>Science Signaling</i> , <b>2016</b> , 9, ra100	8.8	29
70	Purinergic regulation of vascular tone in the retrotrapezoid nucleus is specialized to support the drive to breathe. <i>ELife</i> , <b>2017</b> , 6,	8.9	29
69	Bayliss, myogenic tone and volume-regulated chloride channels in arterial smooth muscle. <i>Journal of Physiology</i> , <b>1998</b> , 507 ( Pt 3), 629	3.9	26
68	Social stress in mice induces urinary bladder overactivity and increases TRPV1 channel-dependent afferent nerve activity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2015</b> , 309, R629-38	3.2	25
67	Social stress induces changes in urinary bladder function, bladder NGF content, and generalized bladder inflammation in mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2014</b> , 307, R893-900	3.2	24
66	Potassium ions as vasodilators: role of inward rectifier potassium channels. <i>Circulation Research</i> , <b>2001</b> , 88, 132-3	15.7	23
65	Reducing Hypermuscularization of the Transitional Segment Between Arterioles and Capillaries Protects Against Spontaneous Intracerebral Hemorrhage. <i>Circulation</i> , <b>2020</b> , 141, 2078-2094	16.7	22
64	Actions of histamine on muscle and ganglia of the guinea pig gallbladder. <i>American Journal of Physiology - Renal Physiology</i> , <b>2000</b> , 279, G622-30	5.1	22
63	Oxidation of cysteine 117 stimulates constitutive activation of the type II $\beta$ -GMP-dependent protein kinase. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 16791-16802	5.4	22
62	PIP: A critical regulator of vascular ion channels hiding in plain sight. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 20378-20389	11.5	19
61	Gain-of-function mutation in TRPV4 identified in patients with osteonecrosis of the femoral head. <i>Journal of Medical Genetics</i> , <b>2016</b> , 53, 705-9	5.8	19
60	ATP- and voltage-dependent electro-metabolic signaling regulates blood flow in heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 7461-7470	11.5	18
59	The capillary Kir channel as sensor and amplifier of neuronal signals: Modeling insights on K-mediated neurovascular communication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 16626-16637	11.5	18
58	A non-anesthetized mouse model for recording sensory urinary bladder activity. <i>Frontiers in Neurology</i> , <b>2010</b> , 1, 127	4.1	17
57	Uncoupling of neurovascular communication after transient global cerebral ischemia is caused by impaired parenchymal smooth muscle Kir channel function. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2016</b> , 36, 1195-201	7.3	17

56	NS19504: a novel BK channel activator with relaxing effect on bladder smooth muscle spontaneous phasic contractions. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2014</b> , 350, 520-30	4.7	16
55	Disruption of Pressure-Induced Ca Spark Vasoregulation of Resistance Arteries, Rather Than Endothelial Dysfunction, Underlies Obesity-Related Hypertension. <i>Hypertension</i> , <b>2020</b> , 75, 539-548	8.5	15
54	PIP Improves Cerebral Blood Flow in a Mouse Model of Alzheimer's Disease. <i>Function</i> , <b>2021</b> , 2, zqab010	6.1	15
53	Zeneca ZD6169 activates ATP-sensitive K <sup>+</sup> channels in the urinary bladder of the guinea pig. <i>Pharmacology</i> , <b>1996</b> , 53, 170-9	2.3	14
52	PIP corrects cerebral blood flow deficits in small vessel disease by rescuing capillary Kir2.1 activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	14
51	Rhythmic Calcium Events in the Lamina Propria Network of the Urinary Bladder of Rat Pups. <i>Frontiers in Systems Neuroscience</i> , <b>2017</b> , 11, 87	3.5	13
50	Purinergic signalling underlies transforming growth factor- $\beta$ -mediated bladder afferent nerve hyperexcitability. <i>Journal of Physiology</i> , <b>2016</b> , 594, 3575-88	3.9	12
49	Local IP receptor-mediated Ca signals compound to direct blood flow in brain capillaries. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	12
48	Vascular control of the CO <sub>2</sub> /H-dependent drive to breathe. <i>ELife</i> , <b>2020</b> , 9,	8.9	11
47	Inhibition of vascular smooth muscle inward-rectifier K channels restores myogenic tone in mouse urinary bladder arterioles. <i>American Journal of Physiology - Renal Physiology</i> , <b>2017</b> , 312, F836-F847	4.3	10
46	The yin and yang of K channels in cerebral small vessel pathologies. <i>Microcirculation</i> , <b>2018</b> , 25, e12436	2.9	9
45	Lack of direct effect of adiponectin on vascular smooth muscle cell BK channels or Ca signaling in the regulation of small artery pressure-induced constriction. <i>Physiological Reports</i> , <b>2017</b> , 5, e13337	2.6	8
44	Spinning Disk Confocal Microscopy of Calcium Signalling in Blood Vessel Walls <b>2010</b> , 24, 5-8		8
43	TRPV4 blockade reduces voiding frequency, ATP release, and pelvic sensitivity in mice with chronic urothelial overexpression of NGF. <i>American Journal of Physiology - Renal Physiology</i> , <b>2019</b> , 317, F1695-F1706	4.3	7
42	The K <sub>7</sub> channel activator retigabine suppresses mouse urinary bladder afferent nerve activity without affecting detrusor smooth muscle K channel currents. <i>Journal of Physiology</i> , <b>2019</b> , 597, 935-950	3.9	7
41	Zinc drives vasorelaxation by acting in sensory nerves, endothelium and smooth muscle. <i>Nature Communications</i> , <b>2021</b> , 12, 3296	17.4	6
40	Transient receptor potential vanilloid-4 channels are involved in diminished myogenic tone in brain parenchymal arterioles in response to chronic hypoperfusion in mice. <i>Acta Physiologica</i> , <b>2019</b> , 225, e13181	5.6	6
39	Differential restoration of functional hyperemia by antihypertensive drug classes in hypertension-related cerebral small vessel disease. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	6

38	Location, Location, Location: Juxtaposed calcium-signaling microdomains as a novel model of the vascular smooth muscle myogenic response. <i>Journal of General Physiology</i> , <b>2015</b> , 146, 129-32	3.4	5
37	Sarcoplasmic Reticulum and Membrane Currents. <i>Novartis Foundation Symposium</i> , <b>2008</b> , 189-207		5
36	Piezo1 Is a Mechanosensor Channel in Central Nervous System Capillaries.. <i>Circulation Research</i> , <b>2022</b> , 101161CIRCRESAHA122320827	15.7	4
35	A case for myoendothelial gap junctions. <i>Circulation Research</i> , <b>2000</b> , 87, 427-8	15.7	3
34	Impaired Cerebral Autoregulation After Subarachnoid Hemorrhage: A Quantitative Assessment Using a Mouse Model. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 688468	4.6	3
33	Impaired capillary-to-arteriolar electrical signaling after traumatic brain injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2021</b> , 41, 1313-1327	7.3	3
32	Adenosine signaling activates ATP-sensitive K channels in endothelial cells and pericytes in CNS capillaries.. <i>Science Signaling</i> , <b>2022</b> , 15, eabl5405	8.8	3
31	Piezo1 is a mechanosensor channel in CNS capillaries. <i>Journal of General Physiology</i> , <b>2022</b> , 154,	3.4	2
30	Functional evidence of TRPV4-mediated Ca <sup>2+</sup> signals in cortical astrocytes. <i>FASEB Journal</i> , <b>2011</b> , 25, 1024.23	0.9	1
29	Electro-Metabolic Sensing Through Capillary ATP-Sensitive K <sup>+</sup> Channels and Adenosine to Control Cerebral Blood Flow		1
28	The Role of PIEZO1 in Urinary Bladder Function and Dysfunction in a Rodent Model of Cyclophosphamide-Induced Cystitis.. <i>Frontiers in Pain Research</i> , <b>2021</b> , 2, 748385	1.4	0
27	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
26	Orchestrating Ca <sup>2+</sup> influx through Ca(V)1.2 and Ca(V)3.x channels in human cerebral arteries. <i>Journal of General Physiology</i> , <b>2015</b> , 145, 481-3	3.4	
25	Enhanced Vascular Contractility Following Secondhand Smoke Exposure: A Pathological "Double-hit" to Critical Smooth Muscle Ion Channels.. <i>Function</i> , <b>2022</b> , 3, zqab061	6.1	
24	SK channels are involved in the stimulation of intracellular Ca <sup>2+</sup> signals by reactive oxygen species (ROS) in intact endothelium. <i>FASEB Journal</i> , <b>2006</b> , 20, A1164	0.9	
23	Basal and ACh-stimulated intracellular Ca <sup>2+</sup> signals in intact endothelium originate from IP3-sensitive stores. <i>FASEB Journal</i> , <b>2007</b> , 21, A861	0.9	
22	Ca <sup>2+</sup> pulsars: spatially restricted, IP3R-mediated Ca <sup>2+</sup> release important for endothelial function. <i>FASEB Journal</i> , <b>2008</b> , 22, 1181.18	0.9	
21	Decreased frequency of transient outward BK currents in cerebral myocytes following subarachnoid hemorrhage. <i>FASEB Journal</i> , <b>2008</b> , 22, 965.18	0.9	

20	Junctional Pericytes Serve as Directional Control Elements in K <sup>+</sup> -mediated Functional Hyperemia. <i>FASEB Journal</i> , <b>2018</b> , 32, 843.23	0.9
19	Knockout of Vascular Smooth Muscle Inward-Rectifier K <sup>+</sup> Channels Causes Symptoms of Overactive Bladder in Mice. <i>FASEB Journal</i> , <b>2018</b> , 32, 770.3	0.9
18	An In Situ Kidney Slice Model for Studying Angiotensin II- and TRPC5-Mediated Calcium Signaling. <i>FASEB Journal</i> , <b>2018</b> , 32, 721.2	0.9
17	In vivo and ex vivo dysfunction of neurovascular coupling in a mouse model of subarachnoid hemorrhage (676.3). <i>FASEB Journal</i> , <b>2014</b> , 28, 676.3	0.9
16	Disruption Of Astrocytic Calcium Signaling During Neurovascular Coupling In A Genetic Model Of Small Vessel Disease. <i>FASEB Journal</i> , <b>2015</b> , 29, 832.6	0.9
15	Ca <sup>2+</sup> Dynamics and Contraction of Junctional Pericytes in the Retinal Vasculature. <i>FASEB Journal</i> , <b>2015</b> , 29, 790.1	0.9
14	Nerve-induced smooth muscle to endothelium signaling in small resistance arteries. <i>FASEB Journal</i> , <b>2010</b> , 24, 598.7	0.9
13	High intravascular pressure decreases endothelial Ca <sup>2+</sup> pulsars and impairs endothelium-dependent vasodilation in mouse mesenteric arteries. <i>FASEB Journal</i> , <b>2010</b> , 24, 956.6	0.9
12	Role of ryanodine receptors in acidic pH-induced dilation of brain parenchymal arterioles. <i>FASEB Journal</i> , <b>2011</b> , 25, 1024.15	0.9
11	Elementary TRPV4 Ca <sup>2+</sup> events in intact vascular endothelium. <i>FASEB Journal</i> , <b>2011</b> , 25, 1082.1	0.9
10	Fundamental Change in Neurovascular Coupling after Subarachnoid Hemorrhage. <i>FASEB Journal</i> , <b>2011</b> , 25, 1021.9	0.9
9	Profound decrease in myogenic tone of parenchymal arterioles in a genetic model of cerebral ischemic small vessel disease. <i>FASEB Journal</i> , <b>2012</b> , 26, 685.6	0.9
8	Critical role of Kv channels in cerebrovascular dysfunction associated with ischemic small vessel disease in a mouse genetic model. <i>FASEB Journal</i> , <b>2013</b> , 27, 925.7	0.9
7	Loss of parenchymal arteriolar dilation to K <sup>+</sup> contributes to impaired neurovascular coupling in chronic angiotensin II hypertension. <i>FASEB Journal</i> , <b>2013</b> , 27, 1186.8	0.9
6	Impairment of Neurovascular Coupling by Chronic Stress. <i>FASEB Journal</i> , <b>2013</b> , 27, 925.9	0.9
5	Calcium-sensitive potassium channels are not involved in the decreased myogenic tone of posterior cerebral arteries in a genetic model of cerebral ischemic small vessel disease. <i>FASEB Journal</i> , <b>2013</b> , 27, lb671	0.9
4	CEREBRAL VASCULAR DYSFUNCTION FOLLOWING TRAUMATIC BRAIN INJURY. <i>FASEB Journal</i> , <b>2013</b> , 27, 875.6	0.9
3	Increased endothelial calcium signals in cerebral vessels following traumatic brain injury. <i>FASEB Journal</i> , <b>2013</b> , 27, 875.9	0.9

- 2 TRPA1 channel: New kid in the neurovascular coupling town. *Cell Calcium*, **2021**, 96, 102407 4
- 1 "A Step and a Ceiling": mechanical properties of Ca spark vasoregulation in resistance arteries by pressure-induced oxidative activation of PKG. *Physiological Reports*, **2019**, 7, e14260 2.6