

Fabrice Dabertrand

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

37
papers

911
citations

16
h-index

30
g-index

43
ext. papers

1,144
ext. citations

5.8
avg, IF

4.24
L-index

#	Paper	IF	Citations
37	Capillary K-sensing initiates retrograde hyperpolarization to increase local cerebral blood flow. <i>Nature Neuroscience</i> , 2017 , 20, 717-726	25.5	240
36	Acidosis dilates brain parenchymal arterioles by conversion of calcium waves to sparks to activate BK channels. <i>Circulation Research</i> , 2012 , 110, 285-94	15.7	76
35	A PLC β -dependent, force-sensitive signaling network in the myogenic constriction of cerebral arteries. <i>Science Signaling</i> , 2014 , 7, ra49	8.8	73
34	Stress-induced glucocorticoid signaling remodels neurovascular coupling through impairment of cerebrovascular inwardly rectifying K ⁺ channel function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7462-7	11.5	58
33	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> , 2015 , 112, E796-805	11.5	55
32	Mechanistic insights into a TIMP3-sensitive pathway constitutively engaged in the regulation of cerebral hemodynamics. <i>ELife</i> , 2016 , 5,	8.9	42
31	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> , 2018 , 115, E3569-E3577	11.5	38
30	Prostaglandin E2, a postulated astrocyte-derived neurovascular coupling agent, constricts rather than dilates parenchymal arterioles. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 479-82	7.3	35
29	Modulation of calcium signalling by dominant negative splice variant of ryanodine receptor subtype 3 in native smooth muscle cells. <i>Cell Calcium</i> , 2006 , 40, 11-21	4	34
28	Strain differences in hypothalamic pituitary adrenocortical axis function and adipogenic effects of corticosterone in rats. <i>Journal of Endocrinology</i> , 2007 , 195, 473-84	4.7	29
27	Role of RYR3 splice variants in calcium signaling in mouse nonpregnant and pregnant myometrium. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 293, C848-54	5.4	29
26	Ryanodine receptors, calcium signaling, and regulation of vascular tone in the cerebral parenchymal microcirculation. <i>Microcirculation</i> , 2013 , 20, 307-16	2.9	28
25	Reducing Hypermuscularization of the Transitional Segment Between Arterioles and Capillaries Protects Against Spontaneous Intracerebral Hemorrhage. <i>Circulation</i> , 2020 , 141, 2078-2094	16.7	22
24	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> , 2020 , 117, 16626-16637	11.5	18
23	Changes in Cerebral Arteries and Parenchymal Arterioles With Aging: Role of Rho Kinase 2 and Impact of Genetic Background. <i>Hypertension</i> , 2018 , 71, 921-927	8.5	17
22	Spaceflight regulates ryanodine receptor subtype 1 in portal vein myocytes in the opposite way of hypertension. <i>Journal of Applied Physiology</i> , 2012 , 112, 471-80	3.7	17
21	Full length ryanodine receptor subtype 3 encodes spontaneous calcium oscillations in native duodenal smooth muscle cells. <i>Cell Calcium</i> , 2008 , 44, 180-9	4	15

20	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> , 2021 , 118,	11.5	14
19	Isolation and Cannulation of Cerebral Parenchymal Arterioles. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	12
18	The yin and yang of K channels in cerebral small vessel pathologies. <i>Microcirculation</i> , 2018 , 25, e12436	2.9	9
17	The decrease of expression of ryanodine receptor sub-type 2 is reversed by gentamycin sulphate in vascular myocytes from mdx mice. <i>Journal of Cellular and Molecular Medicine</i> , 2009 , 13, 3122-30	5.6	8
16	Blood brain barrier precludes the cerebral arteries to intravenously-injected antisense oligonucleotide. <i>European Journal of Pharmacology</i> , 2015 , 747, 141-9	5.3	7
15	Up-regulation of ryanodine receptor expression increases the calcium-induced calcium release and spontaneous calcium signals in cerebral arteries from hindlimb unloaded rats. <i>Pflugers Archiv European Journal of Physiology</i> , 2014 , 466, 1517-28	4.6	7
14	Comparison between gentamycin and exon skipping treatments to restore ryanodine receptor subtype 2 functions in mdx mouse duodenum myocytes. <i>European Journal of Pharmacology</i> , 2010 , 628, 36-41	5.3	7
13	Differential restoration of functional hyperemia by antihypertensive drug classes in hypertension-related cerebral small vessel disease. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	6
12	HB-EGF depolarizes hippocampal arterioles to restore myogenic tone in a genetic model of small vessel disease. <i>Mechanisms of Ageing and Development</i> , 2020 , 192, 111389	5.6	4
11	Prostaglandin E Dilates Intracerebral Arterioles When Applied to Capillaries: Implications for Small Vessel Diseases. <i>Frontiers in Aging Neuroscience</i> , 2021 , 13, 695965	5.3	4
10	Acetylcholine evokes an InsP3R1-dependent transient Ca ²⁺ signal in rat duodenum myocytes. <i>Canadian Journal of Physiology and Pharmacology</i> , 2008 , 86, 626-32	2.4	3
9	Ex Vivo Pressurized Hippocampal Capillary-Parenchymal Arteriole Preparation for Functional Study. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	3
8	Kir mediates Regenerative and Directional Conduction of Hyperpolarization in Brain Capillaries: Importance for Neurovascular Coupling. <i>FASEB Journal</i> , 2018 , 32, 712.12	0.9	
7	Contribution of voltage-gated potassium channels in cerebrovascular dysfunction associated with a genetic model of ischemic small vessel disease (1068.1). <i>FASEB Journal</i> , 2014 , 28, 1068.1	0.9	
6	Disruption Of Astrocytic Calcium Signaling During Neurovascular Coupling In A Genetic Model Of Small Vessel Disease. <i>FASEB Journal</i> , 2015 , 29, 832.6	0.9	
5	Role of ryanodine receptors in acidic pH-induced dilation of brain parenchymal arterioles. <i>FASEB Journal</i> , 2011 , 25, 1024.15	0.9	
4	Profound decrease in myogenic tone of parenchymal arterioles in a genetic model of cerebral ischemic small vessel disease. <i>FASEB Journal</i> , 2012 , 26, 685.6	0.9	
3	Critical role of Kv channels in cerebrovascular dysfunction associated with ischemic small vessel disease in a mouse genetic model. <i>FASEB Journal</i> , 2013 , 27, 925.7	0.9	

- 2 Impairment of Neurovascular Coupling by Chronic Stress. *FASEB Journal*, **2013**, 27, 925.9 0.9
- 1 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. *FASEB Journal*, **2013**, 27, lb671 0.9