Miyuki Unekawa

List of Publications by Year
in descending order

21 papers	355 citations	1040056 9 h-index	940533 16 g-index
21 all docs	21 docs citations	21 times ranked	507 citing authors

#	Article	IF	Citations
1	Unveiling astrocytic control of cerebral blood flow with optogenetics. Scientific Reports, 2015, 5, 11455.	3.3	72
2	RBC velocities in single capillaries of mouse and rat brains are the same, despite 10-fold difference in body size. Brain Research, 2010, 1320, 69-73.	2.2	68
3	Enhanced susceptibility to cortical spreading depression in two types of Na⁺,K⁺-ATPase Î±2 subunit-deficient mice as a model of familial hemiplegic migraine 2. Cephalalgia, 2018, 38, 1515-1524.	3.9	49
4	Automated Method for Tracking Vast Numbers of FITCâ€Labeled RBCs in Microvessels of Rat Brain <i>In Vivo</i> Using a Highâ€Speed Confocal Microscope System. Microcirculation, 2008, 15, 163-174.	1.8	26
5	Oscillating neuro-capillary coupling during cortical spreading depression as observed by tracking of FITC-labeled RBCs in single capillaries. NeuroImage, 2011, 56, 1001-1010.	4.2	26
6	Suppressive effect of chronic peroral topiramate on potassium-induced cortical spreading depression in rats. Cephalalgia, 2012, 32, 518-527.	3.9	21
7	Sustained Decrease and Remarkable Increase in Red Blood Cell Velocity in Intraparenchymal Capillaries Associated With Potassiumâ€Induced Cortical Spreading Depression. Microcirculation, 2012, 19, 166-174.	1.8	21
8	Alterations in the threshold of the potassium concentration to evoke cortical spreading depression during the natural estrous cycle in mice. Neuroscience Research, 2016, 112, 57-62.	1.9	19
9	Hyperperfusion Counteracted by Transient Rapid Vasoconstriction Followed by Long-Lasting Oligemia Induced by Cortical Spreading Depression in Anesthetized Mice. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 689-698.	4.3	15
10	Potassiumâ€Induced cortical spreading depression bilaterally suppresses the electroencephalogram but only ipsilaterally affects red blood cell velocity in intraparenchymal capillaries. Journal of Neuroscience Research, 2013, 91, 578-584.	2.9	9
11	Dynamic diameter response of intraparenchymal penetrating arteries during cortical spreading depression and elimination of vasoreactivity to hypercapnia in anesthetized mice. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 657-670.	4.3	9
12	Software (KEIO-IS2) for automatically tracking red blood cells (RBCs) with calculation of individual RBC velocities in single capillaries of rat brain. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S541-S541.	4.3	8
13	Exogenous nitric oxide increases microflow but decreases RBC attendance in single capillaries in rat cerebral cortex. Microvascular Reviews and Communications, 2009, 3, 11-16.	0.0	5
14	Spatial and temporal heterogeneity of single capillary plasma flow and RBC tracking in the rat cerebral cortex. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S164-S164.	4.3	3
15	Spatiotemporal dynamics of red blood cells in capillaries in layer I of the cerebral cortex and changes in arterial diameter during cortical spreading depression and response to hypercapnia in anesthetized mice. Microcirculation, 2019, 26, e12552.	1.8	2
16	Sampling rate-dependent RBC velocity in intraparenchymal single capilaries of rat cerebral cortex. Microvascular Reviews and Communications, 2007, 1, 12-15.	0.0	2
17	Depolarization increases cellular light transmission. Nature Precedings, 2008, , .	0.1	0
18	Intramicrovascular behavior of platelets in rat brain observed by high-speed laser confocal fluorescence microscopy. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S170-S170.	4.3	0

#	Article	IF	Citations
19	Changes of flow velocity and RBC tracking in single capillaries and capillary densities during severe hypotension in rat brain. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S174-S174.	4.3	0
20	Effect of Gosha-jinki-gan, a Kampo medicine, on cortical blood flow of rat brain as observed by hemodilution technique and high-speed confocal microscopy. Microvascular Reviews and Communications, 2007, 1, 16-19.	0.0	0
21	Aquaporin-4 facilitates paravascular space closure and neuronal activity reduction after water intoxication. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2020, 93, 2-YIA-34.	0.0	0