Catherine Heurteaux

List of Publications by Year
in descending order

108 papers	11,489 citations	38720 50 h-index	27389 106 g-index
111 all docs	111 docs citations	111 times ranked	8679 citing authors

#	Article	IF	Citations
1	Inhibition of eIF5A hypusination pathway as a new pharmacological target for stroke therapy. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 1080-1090.	2.4	17
2	Sortilin/neurotensin receptor-3 and its derived peptides in depression. , 2021, , 235-241.		0
3	Sortilin-derived peptides promote pancreatic beta-cell survival through CREB signaling pathway. Pharmacological Research, 2021, 167, 105539.	3.1	7
4	Editorial: Sortilin and Sortilin Partners in Physiology and Pathologies. Frontiers in Pharmacology, 2019, 10, 791.	1.6	1
5	First evidence of protective effects on stroke recovery and post-stroke depression induced by sortilin-derived peptides. Neuropharmacology, 2019, 158, 107715.	2.0	5
6	CD4⁺ T Cells Affect the Thyroid Hormone Transport at the Choroid Plexus in Mice Raised in Enriched Environment. NeuroImmunoModulation, 2019, 26, 59-66.	0.9	2
7	Role of TREK-1 in Health and Disease, Focus on the Central Nervous System. Frontiers in Pharmacology, 2019, 10, 379.	1.6	66
8	Fighting against depression with TREK-1 blockers: Past and future. A focus on spadin. , 2019, 194, 185-198.		23
9	CD8+ T cells are essential for the effects of enriched environment on hippocampus-dependent behavior, hippocampal neurogenesis and synaptic plasticity. Brain, Behavior, and Immunity, 2018, 69, 235-254.	2.0	44
10	Identification and characterization of two zebrafish Twik related potassium channels, Kcnk2a and Kcnk2b. Scientific Reports, 2018, 8, 15311.	1.6	4
11	TREK-1 channels regulate pressure sensitivity and calcium signaling in trabecular meshwork cells. Journal of General Physiology, 2018, 150, 1660-1675.	0.9	43
12	Altered Trek-1 Function in Sortilin Deficient Mice Results in Decreased Depressive-Like Behavior. Frontiers in Pharmacology, 2018, 9, 863.	1.6	16
13	Increased serum levels of sortilin-derived propeptide after electroconvulsive therapy in treatment-resistant depressed patients. Neuropsychiatric Disease and Treatment, 2018, Volume 14, 2307-2312.	1.0	7
14	CD4+ T Cells Have a Permissive Effect on Enriched Environment-Induced Hippocampus Synaptic Plasticity. Frontiers in Synaptic Neuroscience, 2018, 10, 14.	1.3	11
15	Adiporon, an adiponectin receptor agonist acts as an antidepressant and metabolic regulator in a mouse model of depression. Translational Psychiatry, 2018, 8, 159.	2.4	45
16	The Involvement of Sortilin/NTSR3 in Depression as the Progenitor of Spadin and Its Role in the Membrane Expression of TREK-1. Frontiers in Pharmacology, 2018, 9, 1541.	1.6	7
17	Acute and long-term cardioprotective effects of the Traditional Chinese Medicine MLC901 against myocardial ischemia-reperfusion injury in mice. Scientific Reports, 2017, 7, 14701.	1.6	21
18	Serum sortilin-derived propeptides concentrations are decreased in major depressive disorder patients. Journal of Affective Disorders, 2017, 208, 443-447.	2.0	15

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19	Shortened Spadin Analogs Display Better TREK-1 Inhibition, In Vivo Stability and Antidepressant Activity. Frontiers in Pharmacology, 2017, 8, 643.	1.6	26
20	Globular Adiponectin Limits Microglia Pro-Inflammatory Phenotype through an AdipoR1/NF-Îº B Signaling Pathway. Frontiers in Cellular Neuroscience, 2017, 11, 352.	1.8	47
21	Potentiation of Calcium Influx and Insulin Secretion in Pancreatic Beta Cell by the Specific TREK-1 Blocker Spadin. Journal of Diabetes Research, 2016, 2016, 1-9.	1.0	17
22	MLC901 Favors Angiogenesis and Associated Recovery after Ischemic Stroke in Mice. Cerebrovascular Diseases, 2016, 42, 139-154.	0.8	26
23	Fluoxetine Protection in Decompression Sickness in Mice is Enhanced by Blocking TREK-1 Potassium Channel with the â€œspadinâ€•Antidepressant. Frontiers in Physiology, 2016, 7, 42.	1.3	13
24	Central CCL2 signaling onto MCH neurons mediates metabolic and behavioral adaptation to inflammation. EMBO Reports, 2016, 17, 1738-1752.	2.0	40
25	TRH modulates glutamatergic synaptic inputs on CA1 neurons of the mouse hippocampus in a biphasic manner. Neuropharmacology, 2016, 110, 69-81.	2.0	4
26	Alpha-linolenic acid given as enteral or parenteral nutritional intervention against sensorimotor and cognitive deficits in a mouse model of ischemic stroke. Neuropharmacology, 2016, 108, 60-72.	2.0	28
27	The peptidic antidepressant spadin interacts with prefrontal 5-HT4 and mGluR2 receptors in the control of serotonergic function. Brain Structure and Function, 2016, 221, 21-37.	1.2	11
28	Positive effects of the traditional C hinese medicine MLC 901 in cognitive tasks. Journal of Neuroscience Research, 2015, 93, 1648-1663.	1.3	22
29	Targeting twoâ€pore domain <scp>K</scp>⁺ channels <scp>TREK</scp>â€1 and <scp>TASK</scp>â€3 for the treatment of depression: a new therapeutic concept. British Journal of Pharmacology, 2015, 172, 771-784.	2.7	52
30	<i>In vitro</i> and <i>in vivo</i> regulation of synaptogenesis by the novel antidepressant spadin. British Journal of Pharmacology, 2015, 172, 2604-2617.	2.7	29
31	Retroinverso analogs of spadin display increased antidepressant effects. Psychopharmacology, 2015, 232, 561-574.	1.5	12
32	Enriched environment decreases microglia and brain macrophages inflammatory phenotypes through adiponectin-dependent mechanisms: Relevance to depressive-like behavior. Brain, Behavior, and Immunity, 2015, 50, 275-287.	2.0	75
33	Adult neurogenesis and brain remodelling after brain injury: From bench to bedside?. Anaesthesia, Critical Care & Pain Medicine, 2015, 34, 239-245.	0.6	6
34	Neurogenesis-independent antidepressant-like effects of enriched environment is dependent on adiponectin. Psychoneuroendocrinology, 2015, 57, 72-83.	1.3	58
35	Differential phospholipase Câ€dependent modulation of TASK and TREK twoâ€pore domain K⁺ channels in rat thalamocortical relay neurons. Journal of Physiology, 2015, 593, 127-144.	1.3	39
36	Differential neuronal plasticity in mouse hippocampus associated with various periods of enriched environment during postnatal development. Brain Structure and Function, 2015, 220, 3435-3448.	1.2	38

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37	Molecular and cellular neuroinflammatory status of mouse brain after systemic lipopolysaccharide challenge: importance of CCR2/CCL2 signaling. Journal of Neuroinflammation, 2014, 11, 132.	3.1	165
38	MLC901, a Traditional Chinese Medicine induces neuroprotective and neuroregenerative benefits after traumatic brain injury in rats. Neuroscience, 2014, 277, 72-86.	1.1	53
39	Endothelial TWIK-related potassium channel-1 (TREK1) regulates immune-cell trafficking into the CNS. Nature Medicine, 2013, 19, 1161-1165.	15.2	136
40	Alpha-linolenic acid: A promising nutraceutical for the prevention of stroke. PharmaNutrition, 2013, 1, 1-8.	0.8	50
41	Mapacalcine Protects Mouse Neurons against Hypoxia by Blocking Cell Calcium Overload. PLoS ONE, 2013, 8, e66194.	1.1	4
42	Activation of ATP-sensitive potassium channels as an element of the neuroprotective effects of the Traditional Chinese Medicine MLC901 against oxygen glucose deprivation. Neuropharmacology, 2012, 63, 692-700.	2.0	33
43	Identification of the muscarinic pathway underlying cessation of sleep-related burst activity in rat thalamocortical relay neurons. Pflugers Archiv European Journal of Physiology, 2012, 463, 89-102.	1.3	28
44	MLC901, a Traditional Chinese Medicine protects the brain against global ischemia. Neuropharmacology, 2011, 61, 622-631.	2.0	74
45	Spadin, a Sortilin-derived peptide: a new concept in the antidepressant drug design. Oleagineux Corps Gras Lipides, 2011, 18, 202-207.	0.2	1
46	A Human TREK-1/HEK Cell Line: A Highly Efficient Screening Tool for Drug Development in Neurological Diseases. PLoS ONE, 2011, 6, e25602.	1.1	45
47	Spadin, a Sortilin-Derived Peptide, Targeting Rodent TREK-1 Channels: A New Concept in the Antidepressant Drug Design. PLoS Biology, 2010, 8, e1000355.	2.6	151
48	Neuroprotective and neuroproliferative activities of NeuroAid (MLC601, MLC901), a Chinese medicine, in vitro and in vivo. Neuropharmacology, 2010, 58, 987-1001.	2.0	98
49	Subchronic Alpha-Linolenic Acid Treatment Enhances Brain Plasticity and Exerts an Antidepressant Effect: A Versatile Potential Therapy for Stroke. Neuropsychopharmacology, 2009, 34, 2548-2559.	2.8	119
50	Polyunsaturated Fatty Acids Are Cerebral Vasodilators via the TREK-1 Potassium Channel. Circulation Research, 2007, 101, 176-184.	2.0	112
51	PUFA-induced neuroprotection against cerebral or spinal cord ischemia<i>via</i>the TREK-1 channel. Oleagineux Corps Gras Lipides, 2007, 14, 190-193.	0.2	0
52	A tarantula peptide against pain via ASIC1a channels and opioid mechanisms. Nature Neuroscience, 2007, 10, 943-945.	7.1	246
53	Altered acetylcholine, bradykinin and cutaneous pressureâ€induced vasodilation in mice lacking the TREK1 potassium channel: the endothelial link. EMBO Reports, 2007, 8, 354-359.	2.0	80
54	Alpha-Linolenic acid and riluzole treatment confer cerebral protection and improve survival after focal brain ischemia. Neuroscience, 2006, 137, 241-251.	1.1	128

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55	Deletion of the background potassium channel TREK-1 results in a depression-resistant phenotype. Nature Neuroscience, 2006, 9, 1134-1141.	7.1	338
56	TREK-1, a K+ channel involved in polymodal pain perception. EMBO Journal, 2006, 25, 2368-2376.	3.5	363
57	InÂvivo Characterization of Brain Morphometric and Metabolic Endophenotypes in Three Inbred Strains of Mice Using Magnetic Resonance Techniques. Behavior Genetics, 2006, 36, 732-744.	1.4	15
58	Le rÃ1e majeur du canal potassique TREK-1 dans la protection neuronale induite par les omÃ©ga-3. Oleagineux Corps Gras Lipides, 2005, 12, 68-77.	0.2	1
59	TREK-1, a K+ channel involved in neuroprotection and general anesthesia. EMBO Journal, 2004, 23, 2684-2695.	3.5	480
60	Rat liver ischemiaâ€"reperfusion-induced apoptosis and necrosis are decreased by FK506 pretreatment. European Journal of Pharmacology, 2003, 473, 177-184.	1.7	29
61	Linolenic acid prevents neuronal cell death and paraplegia after transient spinal cord ischemia in rats. Journal of Vascular Surgery, 2003, 38, 564-575.	0.6	97
62	Diazoxide for cerebral protection during deep hypothermic circulatory arrest: is it really safe?. Annals of Thoracic Surgery, 2002, 74, 632.	0.7	1
63	Polyunsaturated fatty acids induce ischemic and epileptic tolerance. Neuroscience, 2002, 109, 231-241.	1.1	154
64	Diltiazem Reduces Apoptosis in Rat Hepatocytes Subjected to Warm Hypoxia-Reoxygenation. Pharmacology, 2002, 65, 87-95.	0.9	15
65	A Potent Protective Role of Lysophospholipids against Global Cerebral Ischemia and Glutamate Excitotoxicity in Neuronal Cultures. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 821-834.	2.4	89
66	Activation of the Nuclear Factor-Î°B Is a Key Event in Brain Tolerance. Journal of Neuroscience, 2001, 21, 4668-4677.	1.7	258
67	The Effects of FK506 on Neurologic and Histopathologic Outcome After Transient Spinal Cord Ischemia Induced by Aortic Cross-Clamping in Rats. Anesthesia and Analgesia, 2001, 92, 1237-1244.	1.1	17
68	Intermittent ischemia reduces warm hypoxia-reoxygenationâ€"induced JNK1/SAPK1 activation and apoptosis in rat hepatocytes. Hepatology, 2001, 34, 972-978.	3.6	26
69	ATP-sensitive potassium channels (KATP) in retina: a key role for delayed ischemic tolerance. Brain Research, 2001, 890, 118-129.	1.1	72
70	Hyperpolarization-activated Cyclic Nucleotide-gated Channel 1 Is a Molecular Determinant of the Cardiac Pacemaker Current I f. Journal of Biological Chemistry, 2001, 276, 29233-29241.	1.6	95
71	Protein Kinase Activation by Warm And Cold Hypoxia- Reoxygenation in Primary-Cultured Rat Hepatocytesâ€"JNK1/SAPK1 Involvement in Apoptosis. Hepatology, 2000, 32, 1029-1036.	3.6	61
72	TREK-1 is a heat-activated background K+ channel. EMBO Journal, 2000, 19, 2483-2491.	3.5	431

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73	Polyunsaturated fatty acids are potent neuroprotectors. EMBO Journal, 2000, 19, 1784-1793.	3.5	423
74	Ischemic spinal cord injury induced by aortic cross-clamping: prevention by riluzoleâœ©. European Journal of Cardio-thoracic Surgery, 2000, 18, 174-181.	0.6	59
75	KATP channel openers, adenosine agonists and epileptic preconditioning are stress signals inducing hippocampal neuroprotection. Neuroscience, 2000, 100, 465-474.	1.1	110
76	Prevention of ischemic spinal cord injury: Comparative effects of magnesium sulfate and riluzole. Journal of Vascular Surgery, 2000, 32, 179-189.	0.6	57
77	Cloning of a New Mouse Two-P Domain Channel Subunit and a Human Homologue with a Unique Pore Structure. Journal of Biological Chemistry, 1999, 274, 11751-11760.	1.6	108
78	H+-Gated Cation Channelsa. Annals of the New York Academy of Sciences, 1999, 868, 67-76.	1.8	199
79	Mutually Protective Actions of Kainic Acid Epileptic Preconditioning and Sublethal Global Ischemia on Hippocampal Neuronal Death: Involvement of Adenosine A1 Receptors and KATP Channels. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 1296-1308.	2.4	126
80	Reply:. Journal of Thoracic and Cardiovascular Surgery, 1999, 118, 1157.	0.4	2
81	Riluzole prevents ischemic spinal cord injury caused by aortic crossclamping. Journal of Thoracic and Cardiovascular Surgery, 1999, 117, 881-889.	0.4	74
82	A neuronal two P domain K+ channel stimulated by arachidonic acid and polyunsaturated fatty acids. EMBO Journal, 1998, 17, 3297-3308.	3.5	418
83	New Modulatory Î± Subunits for Mammalian ShabK+ Channels. Journal of Biological Chemistry, 1997, 272, 24371-24379.	1.6	185
84	A Modulatory Subunit of Acid Sensing Ion Channels in Brain and Dorsal Root Ganglion Cells. Journal of Biological Chemistry, 1997, 272, 29778-29783.	1.6	469
85	The Acid-sensitive Ionic Channel Subunit ASIC and the Mammalian Degenerin MDEG Form a Heteromultimeric H+-gated Na+ Channel with Novel Properties. Journal of Biological Chemistry, 1997, 272, 28819-28822.	1.6	200
86	Molecular Cloning of a Non-inactivating Proton-gated Na+ Channel Specific for Sensory Neurons. Journal of Biological Chemistry, 1997, 272, 20975-20978.	1.6	489
87	TASK, a human background K+ channel to sense external pH variations near physiological pH. EMBO Journal, 1997, 16, 5464-5471.	3.5	568
88	The structure, function and distribution of the mouse TWIK-1 K+ channel. FEBS Letters, 1997, 402, 28-32.	1.3	109
89	A proton-gated cation channel involved in acid-sensing. Nature, 1997, 386, 173-177.	13.7	1,285
90	Dominant negative chimeras provide evidence for homo and heteromultimeric assembly of inward rectifier K+channel proteins via their N-terminal end. FEBS Letters, 1996, 378, 64-68.	1.3	41

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91	A New K+ Channel Î² Subunit to Specifically Enhance Kv2.2 (CDRK) Expression. Journal of Biological Chemistry, 1996, 271, 26341-26348.	1.6	92
92	Essential role of adenosine, adenosine A1 receptors, and ATP-sensitive K+ channels in cerebral ischemic preconditioning.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 4666-4670.	3.3	535
93	Molecular Properties of Neuronal G-protein-activated Inwardly Rectifying K+ Channels. Journal of Biological Chemistry, 1995, 270, 28660-28667.	1.6	232
94	Glutamate-induced overexpression of NMDA receptor messenger RNAs and protein triggered by activation of AMPA/kainate receptors in rat hippocampus following forebrain ischemia. Brain Research, 1994, 659, 67-74.	1.1	61
95	Expression of group II phospholipase A2 in rat brain after severe forebrain ischemia and in endotoxic shock. Brain Research, 1994, 651, 353-356.	1.1	107
96	Molecular cloning of a murine N-type calcium channel Î±1 subunit. FEBS Letters, 1994, 338, 1-5.	1.3	42
97	Calcicludine, a venom peptide of the Kunitz-type protease inhibitor family, is a potent blocker of high-threshold Ca2+ channels with a high affinity for L-type channels in cerebellar granule neurons.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 878-882.	3.3	158
98	Memory processing and apamin induce immediate early gene expression in mouse brain. Molecular Brain Research, 1993, 18, 17-22.	2.5	67
99	K+ channel openers prevent global ischemia-induced expression of c-fos, c-jun, heat shock protein, and amyloid beta-protein precursor genes and neuronal death in rat hippocampus.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 9431-9435.	3.3	178
100	Behavioral effects of modulators of ATP-sensitive K+ channels in the rat dorsal pallidum. European Journal of Pharmacology, 1992, 217, 71-77.	1.7	7
101	MCD peptide and dendrotoxin I activatec-fos andc-jun expression by acting on two different types of K+ channels. A discrimination using the K+ channel opener lemakalim. Brain Research, 1991, 554, 22-29.	1.1	11
102	Lithium transport in the mouse brain. Brain Research, 1991, 547, 123-129.	1.1	16
103	Lithium Distribution in the Brain of Normal Mice and of "Quaking" Dysmyelinating Mutants. Journal of Neurochemistry, 1986, 46, 1317-1321.	2.1	13
104	Microlocating lithium in the mouse embryo by use of a (n, ?) nuclear reaction. Wilhelm Roux's Archives of Developmental Biology, 1985, 194, 433-435.	1.4	6
105	Estimation of local kinetic parameters of exchange of lithium in various substructures of the mouse brain, using the 6Li(n,Î±)3H-nuclear reaction. Neuropharmacology, 1983, 22, 227-232.	2.0	6
106	Quantitative microlocation of lithium in the brain by a (n, Î±) nuclear reaction. Nature, 1980, 283, 299-302.	13.7	26
107	Quantitative study of the distribution of lithium in the mouse brain for various doses of lithium given to the animal. Brain Research, 1980, 199, 175-196.	1.1	26
108	Application of A (n, alpha) nuclear reaction to the microlocalization of lithium in the mouse brains.. Journal of Histochemistry and Cytochemistry, 1979, 27, 1462-1470.	1.3	17