Robert Brenner

List of Publications by Year in descending order

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257450 214800 4,179 58 24 47 citations h-index g-index papers 59 59 59 3167 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Vasoregulation by the \hat{l}^21 subunit of the calcium-activated potassium channel. Nature, 2000, 407, 870-876.	27.8	772
2	Sequence and Expression of mRNAs Encoding the $\hat{l}\pm 1$ and $\hat{l}\pm 2$ Subunits of a DHP-Sensitive Calcium Channel. Science, 1988, 241, 1661-1664.	12.6	565
3	Structure and functional expression of $\hat{i}\pm 1$, $\hat{i}\pm 2$, and \hat{i}^2 subunits of a novel human neuronal calcium channel subtype. Neuron, 1992, 8, 71-84.	8.1	513
4	Cloning and Functional Characterization of Novel Large Conductance Calcium-activated Potassium Channel Î ² Subunits, hKCNMB3 and hKCNMB4. Journal of Biological Chemistry, 2000, 275, 6453-6461.	3.4	434
5	BK channel \hat{l}^2 4 subunit reduces dentate gyrus excitability and protects against temporal lobe seizures. Nature Neuroscience, 2005, 8, 1752-1759.	14.8	321
6	Nanoparticle delivery of CRISPR into the brain rescues a mouse model of fragile X syndrome from exaggerated repetitive behaviours. Nature Biomedical Engineering, 2018, 2, 497-507.	22.5	277
7	β1â€Subunit of the Ca 2+ â€activated K + channel regulates contractile activity of mouse urinary bladder smooth muscle. Journal of Physiology, 2001, 537, 443-452.	2.9	134
8	Mechanism of Î ² 4 Subunit Modulation of BK Channels. Journal of General Physiology, 2006, 127, 449-465.	1.9	99
9	Mechanism of Increased BK Channel Activation from a Channel Mutation that Causes Epilepsy. Journal of General Physiology, 2009, 133, 283-294.	1.9	70
10	Identification and localization of BK- \hat{l}^2 subunits in the distal nephron of the mouse kidney. American Journal of Physiology - Renal Physiology, 2007, 293, F350-F359.	2.7	66
11	An african-specific functional polymorphism in KCNMB1 shows sex-specific association with asthma severity. Human Molecular Genetics, 2008, 17, 2681-2690.	2.9	64
12	Tissue-specific expression of a Drosophila calcium-activated potassium channel. Journal of Neuroscience, 1995, 15, 6250-6259.	3.6	58
13	Shaping of action potentials by type I and type II large-conductance Ca2+-activated K+ channels. Neuroscience, 2011, 192, 205-218.	2.3	56
14	The Brain-Specific Beta4 Subunit Downregulates BK Channel Cell Surface Expression. PLoS ONE, 2012, 7, e33429.	2.5	54
15	Vasoregulation at the Molecular Level A Role for the $\tilde{A}\check{Z}\hat{A}^21$ Subunit of the Calcium-Activated Potassium (BK) Channel. Trends in Cardiovascular Medicine, 2002, 12, 78-82.	4.9	52
16	Molecular Separation of Two Behavioral Phenotypes by a Mutation Affecting the Promoters of a Ca-Activated K Channel. Journal of Neuroscience, 2000, 20, 2988-2993.	3.6	45
17	BK channel \hat{l}^21 -subunit regulation of calcium handling and constriction in tracheal smooth muscle. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 291, L802-L810.	2.9	45
18	An S6 Mutation in BK Channels Reveals \hat{l}^21 Subunit Effects on Intrinsic and Voltage-dependent Gating. Journal of General Physiology, 2006, 128, 731-744.	1.9	44

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19	Current understanding of iberiotoxin-resistant BK channels in the nervous system. Frontiers in Physiology, 2014, 5, 382.	2.8	42
20	A Mouse Model of Repetitive Blast Traumatic Brain Injury Reveals Post-Trauma Seizures and Increased Neuronal Excitability. Journal of Neurotrauma, 2020, 37, 248-261.	3.4	38
21	Prevention of brain damage after traumatic brain injury by pharmacological enhancement of KCNQ (Kv7, "M-typeâ€) K ⁺ currents in neurons. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1256-1273.	4.3	37
22	Regulation of STREX exon large conductance, calcium-activated potassium channels by the \hat{l}^24 accessory subunit. Neuroscience, 2007, 149, 789-803.	2.3	36
23	Knockout of the BK \hat{l}^2 (sub>4-subunit promotes a functional coupling of BK channels and ryanodine receptors that mediate a fAHP-induced increase in excitability. Journal of Neurophysiology, 2016, 116, 456-465.	1.8	35
24	BK channel \hat{l}^21 subunits regulate airway contraction secondary to M2 muscarinic acetylcholine receptor mediated depolarization. Journal of Physiology, 2011, 589, 1803-1817.	2.9	32
25	Complementation of Physiological and Behavioral Defects by a Slowpoke Ca2+ -Activated K+ Channel Transgene. Journal of Neurochemistry, 2002, 75, 1310-1319.	3.9	25
26	Functional effects of KCNQ K+ channels in airway smooth muscle. Frontiers in Physiology, 2013, 4, 277.	2.8	23
27	Downregulation of KCNMB4 expression and changes in BK channel subtype in hippocampal granule neurons following seizure activity. PLoS ONE, 2017, 12, e0188064.	2.5	21
28	Calcium-Activated Potassium Channel Gene Expression in the Midgut of Drosophila. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1997, 118, 411-420.	1.6	20
29	Modulation by the BK accessory \hat{l}^24 subunit of phosphorylation-dependent changes in excitability of dentate gyrus granule neurons. European Journal of Neuroscience, 2011, 34, 695-704.	2.6	20
30	Developmental- and Eye-Specific Transcriptional Control Elements in an Intronic Region of a Ca 2+-Activated K + Channel Gene. Developmental Biology, 1996, 177, 536-543.	2.0	19
31	Behavioral and Electrophysiological Analysis of Ca-activated K-channel Transgenes in Drosophilaa. Annals of the New York Academy of Sciences, 1998, 860, 296-305.	3.8	19
32	A computational model for how the fast afterhyperpolarization paradoxically increases gain in regularly firing neurons. Journal of Neurophysiology, 2018, 119, 1506-1520.	1.8	17
33	Cataract-associated connexin 46 mutation alters its interaction with calmodulin and function of hemichannels. Journal of Biological Chemistry, 2018, 293, 2573-2585.	3.4	16
34	In vitro Measurements of Tracheal Constriction Using Mice. Journal of Visualized Experiments, 2012, , .	0.3	12
35	Neuroprotective Roles of the Adenosine A3 Receptor Agonist AST-004 in Mouse Model of Traumatic Brain Injury. Neurotherapeutics, 2021, 18, 2707-2721.	4.4	12
36	Potassium Channelopathies of Epilepsy. , 2012, , 688-701.		11

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37	\hat{l}^21 -Subunit of the calcium-sensitive potassium channel modulates the pulmonary vascular smooth muscle cell response to hypoxia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2018, 315, L265-L275.	2.9	10
38	Novel embryonic regulation of Ca2+-activated K+ channel expression inDrosophila. Invertebrate Neuroscience, 1997, 2, 283-291.	1.8	9
39	Mechanisms associated with the antidepressant-like effects of L-655,708. Neuropsychopharmacology, 2020, 45, 2289-2298.	5.4	9
40	Knockout of the BK \hat{I}^2 2 subunit reveals the importance of accessorizing your channel. Journal of General Physiology, 2014, 144, 351-356.	1.9	8
41	Hydraulically coupled microejection technique for precise local solution delivery in tissues. Journal of Neuroscience Methods, 2006, 155, 231-240.	2.5	7
42	Performance of a clay-alum flocculation (CCBA) process for virus removal from municipal wastewater. Water Research, 1988, 22, 1449-1454.	11.3	6
43	Bis-Quinolinium Cyclophane Blockers of SK Potassium Channels Are Antagonists of M3 Muscarinic Acetylcholine Receptors. Frontiers in Pharmacology, 2020, 11, 552211.	3.5	4
44	Potassium channelopathies of epilepsy. Epilepsia, 2010, 51, 60-60.	5.1	3
45	Voltage effects on muscarinic acetylcholine receptorâ€mediated contractions of airway smooth muscle. Physiological Reports, 2018, 6, e13856.	1.7	3
46	Effects of Sublethal Organophosphate Toxicity and Anti-cholinergics on Electroencephalogram and Respiratory Mechanics in Mice. Frontiers in Neuroscience, 2022, 16, 866899.	2.8	3
47	Integrated Wastewater Treatment Using Artificial Wetlands: A Gravel Marsh Case Study. , 2020, , 145-152.		2
48	Assessment of Airway Hyperresponsiveness in Murine Tracheal Rings. Methods in Molecular Biology, 2013, 1032, 257-269.	0.9	2
49	Dequalinium chloride is an antagonists of $\hat{l}\pm7$ nicotinic acetylcholine receptors. European Journal of Pharmacology, 2022, 925, 175000.	3.5	2
50	ION CHANNELS Proepileptic Effects of BK Channel Gene Mutations., 2009,, 662-669.		1
51	Mechanism Of Increased Bk Channel Activation From A Channel Mutation That Causes Epilepsy. Biophysical Journal, 2009, 96, 381a.	0.5	0
52	Structure-Function Studies of the Large Conductance Voltage-and Calcium-Activated Potassium Channel BETA1 Auxiliary Subunit. Biophysical Journal, 2011, 100, 583a.	0.5	0
53	BK Channels Regulate Contraction Secondary to M2 Muscarinic Acetylcholine Receptor Mediated Depolarization. Biophysical Journal, 2011, 100, 289a.	0.5	0
54	Regulation of Airway Smooth Muscle Contraction by KV7 (M-Type) K+ Channels. Biophysical Journal, 2012, 102, 678a.	0.5	0

#	Article	IF	CITATIONS
55	Kcnq Channels in Airway Smooth Muscle. Biophysical Journal, 2013, 104, 269a.	0.5	O
56	SK Potassium Channel Antagonists As Novel Bronchodilators. Journal of Allergy and Clinical Immunology, 2016, 137, AB190.	2.9	0
57	Novel Drugs that Augment KCNQ (KV7, "M-Typeâ€) Potassium Channels as a Post-Event Treatment for Traumatic Brain Injury. Biophysical Journal, 2018, 114, 309a.	0.5	O
58	BK Potassium Channel Mutations Affecting Neuronal Function and Epilepsy. Neuromethods, 2009, , 87-106.	0.3	0