

David A Brown

List of Publications by Year in descending order

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66
papers

5,020
citations

109321

35
h-index

110387

64
g-index

67
all docs

67
docs citations

67
times ranked

3826
citing authors

#	ARTICLE	IF	CITATIONS
1	Pathways modulating neural KCNQ/M (Kv7) potassium channels. <i>Nature Reviews Neuroscience</i> , 2005, 6, 850-862.	10.2	597
2	Neural <i>KCNQ</i> (Kv7) channels. <i>British Journal of Pharmacology</i> , 2009, 156, 1185-1195.	5.4	563
3	KCNQ/M Currents in Sensory Neurons: Significance for Pain Therapy. <i>Journal of Neuroscience</i> , 2003, 23, 7227-7236.	3.6	323
4	Two polyphosphatidylinositide metabolites control two K ⁺ currents in a neuronal cell. <i>Nature</i> , 1986, 323, 333-335.	27.8	265
5	Functional significance of axonal Kv7 channels in hippocampal pyramidal neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 7869-7874.	7.1	242
6	Signaling Microdomains Define the Specificity of Receptor-Mediated InsP3 Pathways in Neurons. <i>Neuron</i> , 2002, 34, 209-220.	8.1	240
7	AKAP150 signaling complex promotes suppression of the M-current by muscarinic agonists. <i>Nature Neuroscience</i> , 2003, 6, 564-571.	14.8	219
8	Relationship between Membrane Phosphatidylinositol-4,5-Bisphosphate and Receptor-Mediated Inhibition of Native Neuronal M Channels. <i>Journal of Neuroscience</i> , 2005, 25, 3400-3413.	3.6	154
9	Muscarinic Acetylcholine Receptors (mAChRs) in the Nervous System: Some Functions and Mechanisms. <i>Journal of Molecular Neuroscience</i> , 2010, 41, 340-346.	2.3	147
10	Stoichiometry of Expressed KCNQ2/KCNQ3 Potassium Channels and Subunit Composition of Native Ganglionic M Channels Deduced from Block by Tetraethylammonium. <i>Journal of Neuroscience</i> , 2003, 23, 5012-5019.	3.6	116
11	M Currents. , 1988, 1, 55-94.		109
12	Cholinergic Afferent Stimulation Induces Axonal Function Plasticity in Adult Hippocampal Granule Cells. <i>Neuron</i> , 2015, 85, 346-363.	8.1	92
13	Characterization of a Calcium-dependent Current Generating a Slow Afterdepolarization of CA3 Pyramidal Cells in Rat Hippocampal Slice Cultures. <i>European Journal of Neuroscience</i> , 1993, 5, 560-569.	2.6	91
14	Regulation of M(Kv7.2/7.3) channels in neurons by PIP2 and products of PIP2 hydrolysis: significance for receptor-mediated inhibition. <i>Journal of Physiology</i> , 2007, 582, 917-925.	2.9	85
15	Functional organization of PLC signaling microdomains in neurons. <i>Trends in Neurosciences</i> , 2004, 27, 41-47.	8.6	81
16	The β Subunit of Gq Contributes to Muscarinic Inhibition of the M-Type Potassium Current in Sympathetic Neurons. <i>Journal of Neuroscience</i> , 1998, 18, 4521-4531.	3.6	79
17	P2Y2 Nucleotide Receptors Expressed Heterologously in Sympathetic Neurons Inhibit Both N-Type Ca ²⁺ and M-Type K ⁺ Currents. <i>Journal of Neuroscience</i> , 1998, 18, 5170-5179.	3.6	77
18	Muscarinic Inhibition of Calcium Current and M Current in $G\alpha_q$ -Deficient Mice. <i>Journal of Neuroscience</i> , 2000, 20, 3973-3979.	3.6	73

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19	On the role of endogenous G-protein $\beta\gamma$ subunits in N-type Ca^{2+} -current inhibition by neurotransmitters in rat sympathetic neurones. <i>Journal of Physiology</i> , 1998, 506, 319-329.	2.9	71
20	G-proteins and G-protein subunits mediating cholinergic inhibition of N-type calcium currents in sympathetic neurons. <i>European Journal of Neuroscience</i> , 1998, 10, 1654-1666.	2.6	71
21	Simultaneous Release of Glutamate and Acetylcholine from Single Magnocellular "Cholinergic" Basal Forebrain Neurons. <i>Journal of Neuroscience</i> , 2006, 26, 1588-1595.	3.6	71
22	The P2Y1 receptor closes the N-type Ca^{2+} channel in neurones, with both adenosine triphosphates and diphosphates as potent agonists. <i>British Journal of Pharmacology</i> , 2000, 129, 1063-1066.	5.4	68
23	Presynaptic Signaling by Heterotrimeric G-Proteins. <i>Handbook of Experimental Pharmacology</i> , 2008, , 207-260.	1.8	68
24	Evoked surface-positive potentials in isolated mammalian olfactory cortex. <i>Brain Research</i> , 1974, 76, 235-245.	2.2	67
25	Dual coupling of heterologously-expressed rat P2Y6 nucleotide receptors to N-type Ca^{2+} and M-type K^{+} currents in rat sympathetic neurones. <i>British Journal of Pharmacology</i> , 1999, 126, 1009-1017.	5.4	63
26	$\beta\gamma$ dimers derived from Go and G β proteins contribute different components of adrenergic inhibition of Ca^{2+} -channels in rat sympathetic neurones. <i>Journal of Physiology</i> , 1999, 518, 23-36.	2.9	57
27	The cloning of GABAB receptors. <i>Nature</i> , 1997, 386, 223-224.	27.8	54
28	Calcium channel gating and modulation by transmitters depend on cellular compartmentalization. <i>Nature Neuroscience</i> , 2000, 3, 670-678.	14.8	52
29	Effects of phorbol dibutyrate on M currents and M current inhibition in bullfrog sympathetic neurons. <i>Cellular and Molecular Neurobiology</i> , 1987, 7, 255-269.	3.3	51
30	Probing the Regulation of M (Kv7) Potassium Channels in Intact Neurons with Membrane-Targeted Peptides. <i>Journal of Neuroscience</i> , 2006, 26, 7950-7961.	3.6	49
31	Functional significance of M-type potassium channels in nociceptive cutaneous sensory endings. <i>Frontiers in Molecular Neuroscience</i> , 2012, 5, 63.	2.9	49
32	Selective activation of heterologously expressed G protein-gated K^{+} -channels by M2 muscarinic receptors in rat sympathetic neurones. <i>Journal of Physiology</i> , 1999, 515, 631-637.	2.9	48
33	Differential effects of Kv7 (M β) channels on synaptic integration in distinct subcellular compartments of rat hippocampal pyramidal neurons. <i>Journal of Physiology</i> , 2011, 589, 6029-6038.	2.9	47
34	PIP2-dependent inhibition of M-type (Kv7.2/7.3) potassium channels: direct on-line assessment of PIP2 depletion by Gq-coupled receptors in single living neurons. <i>Pflügers Archiv European Journal of Physiology</i> , 2007, 455, 115-124.	2.8	45
35	Acetylcholine and cholinergic receptors. <i>Brain and Neuroscience Advances</i> , 2019, 3, 239821281882050.	3.4	41
36	Alternative splicing of KCNQ2 potassium channel transcripts contributes to the functional diversity of M β -currents. <i>Journal of Physiology</i> , 2001, 531, 347-358.	2.9	40

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37	Identification of M-channels in outside-out patches excised from sympathetic ganglion cells. <i>Neuron</i> , 1993, 10, 639-654.	8.1	36
38	Structural Requirements of Membrane Phospholipids for M-type Potassium Channel Activation and Binding. <i>Journal of Biological Chemistry</i> , 2012, 287, 10001-10012.	3.4	34
39	Distinct subunit contributions to the activation of M-type potassium channels by PI(4,5)P2. <i>Journal of General Physiology</i> , 2012, 140, 41-53.	1.9	32
40	Acetylcholine. <i>British Journal of Pharmacology</i> , 2006, 147, S120-S126.	5.4	31
41	Multiple pertussis toxin-sensitive G-proteins can couple receptors to GIRK channels in rat sympathetic neurons when expressed heterologously, but only native Gi-proteins do so in situ. <i>European Journal of Neuroscience</i> , 2001, 14, 283-292.	2.6	30
42	Regulation of neural ion channels by muscarinic receptors. <i>Neuropharmacology</i> , 2018, 136, 383-400.	4.1	28
43	Bradykinin, But Not Muscarinic, Inhibition of M-Current in Rat Sympathetic Ganglion Neurons Involves Phospholipase C- β 4. <i>Journal of Neuroscience</i> , 2000, 20, RC105-RC105.	3.6	26
44	Some new insights into the molecular mechanisms of pain perception. <i>Journal of Clinical Investigation</i> , 2010, 120, 1380-1383.	8.2	26
45	A basic residue in the proximal C-terminus is necessary for efficient activation of the M-channel subunit Kv7.2 by PI(4,5)P2. <i>Pflügers Archiv European Journal of Physiology</i> , 2013, 465, 945-953.	2.8	23
46	Kv7 (KCNQ) potassium channels that are mutated in human diseases. <i>Journal of Physiology</i> , 2008, 586, 1781-1783.	2.9	21
47	Effects of KCNQ2 Gene Truncation on M-Type Kv7 Potassium Currents. <i>PLoS ONE</i> , 2013, 8, e71809.	2.5	20
48	The subthreshold-active KV7 current regulates neurotransmission by limiting spike-induced Ca ²⁺ influx in hippocampal mossy fiber synaptic terminals. <i>Communications Biology</i> , 2019, 2, 145.	4.4	19
49	The Scaffold Protein NHERF2 Determines the Coupling of P2Y1 Nucleotide and mGluR5 Glutamate Receptor to Different Ion Channels in Neurons. <i>Journal of Neuroscience</i> , 2010, 30, 11068-11072.	3.6	15
50	Both linopirdine- and WAY123,398-sensitive components of I _{K(M,ng)} are modulated by cyclic ADP ribose in NG108-15 cells. <i>Pflügers Archiv European Journal of Physiology</i> , 2000, 441, 228-234.	2.8	14
51	M-type K ⁺ current inhibition by a toxin from the scorpion <i>Buthus eupeus</i> . <i>FEBS Letters</i> , 1996, 384, 277-280.	2.8	13
52	Neurobiology: The acid test for resting potassium channels. <i>Current Biology</i> , 2000, 10, R456-R459.	3.9	13
53	Kv7 channels are upregulated during striatal neuron development and promote maturation of human iPSC-derived neurons. <i>Pflügers Archiv European Journal of Physiology</i> , 2018, 470, 1359-1376.	2.8	13
54	Scopolamine modulates paternal parental retrieval behavior in mice induced by the maternal mate. <i>Neuroscience Letters</i> , 2013, 546, 63-66.	2.1	12

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55	Kv7/M-type potassium channels in rat skin keratinocytes. Pflugers Archiv European Journal of Physiology, 2013, 465, 1371-1381.	2.8	8
56	Substance P-mediated membrane currents in voltage-clamped guinea pig inferior mesenteric ganglion cells. Synapse, 1988, 2, 432-441.	1.2	7
57	Effects of serum immunoglobulins from patients with complex regional pain syndrome (CRPS) on depolarisation-induced calcium transients in isolated dorsal root ganglion (DRG) neurons. Experimental Neurology, 2016, 277, 96-102.	4.1	6
58	Neurons, Receptors, and Channels. Annual Review of Pharmacology and Toxicology, 2020, 60, 9-30.	9.4	6
59	Whole-cell recording of neuroblastoma x glioma cells during downregulation of a major substrate, 80K/MARCKS, of protein kinase C. Journal of Membrane Biology, 1993, 133, 51-9.	2.1	5
60	A Mechanism for Nerve Cell Excitation by Norepinephrine via Alpha-1 Adrenoceptors: Inhibition of Potassium M-Current. Cellular and Molecular Neurobiology, 2013, 33, 1-4.	3.3	5
61	Hippocalcin: A New Solution to an Old Puzzle. Neuron, 2007, 53, 467-468.	8.1	4
62	Norman Bowery's discoveries about extrasynaptic and asynaptic GABA systems and their significance. Neuropharmacology, 2018, 136, 3-9.	4.1	3
63	Need for speed of transmission. Nature, 1988, 335, 475-475.	27.8	1
64	Signalling pathways and ion channel regulations of P2Y receptors. Drug Development Research, 2003, 59, 36-48.	2.9	1
65	Individuals' rights and wrongs. Nature, 1996, 383, 474-474.	27.8	0
66	Control of Neuronal Activity. , 0, , 33-56.		0