Annette C Dolphin

List of Publications by Citations

174 papers	12,645 citations	65 h-index	109 g-index
315 ext. papers	13,941 ext. citations	8.3 avg, IF	6.78 L-index

#	Paper	IF	Citations
174	The Physiology, Pathology, and Pharmacology of Voltage-Gated Calcium Channels and Their Future Therapeutic Potential. *Pharmacological Reviews*, **2015**, 67, 821-70	22.5	562
173	Identification of the alpha2-delta-1 subunit of voltage-dependent calcium channels as a molecular target for pain mediating the analgesic actions of pregabalin. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 17537-42	11.5	442
172	Somatic mutations in ATP1A1 and CACNA1D underlie a common subtype of adrenal hypertension. *Nature Genetics*, **2013**, 45, 1055-60	36.3	353
171	Long-term potentiation of the perforant path in vivo is associated with increased glutamate release. *Nature*, **1982**, 297, 496-8	50.4	350
170	The increased trafficking of the calcium channel subunit alpha2delta-1 to presynaptic terminals in neuropathic pain is inhibited by the alpha2delta ligand pregabalin. *Journal of Neuroscience*, **2009**, 29, 4076-88	6.6	312
169	Pharmacological disruption of calcium channel trafficking by the alpha2delta ligand gabapentin. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 3628-33	11.5	304
168	Beta subunits of voltage-gated calcium channels. *Journal of Bioenergetics and Biomembranes*, **2003**, 35, 599-620	3.7	287
167	Functional biology of the alpha(2)delta subunits of voltage-gated calcium channels. *Trends in Pharmacological Sciences*, **2007**, 28, 220-8	13.2	285
166	Calcium channel auxiliary □□and □subunits: trafficking and one step beyond. *Nature Reviews Neuroscience*, **2012**, 13, 542-55	13.5	262
165	□□expression sets presynaptic calcium channel abundance and release probability. *Nature*, **2012**, 486, 122-5	50.4	252
164	G protein modulation of voltage-gated calcium channels. *Pharmacological Reviews*, **2003**, 55, 607-27	22.5	237
163	Ducky mouse phenotype of epilepsy and ataxia is associated with mutations in the Cacna2d2 gene and decreased calcium channel current in cerebellar Purkinje cells. *Journal of Neuroscience*, **2001**, 21, 6095-104	6.6	236
162	An adenosine agonist inhibits and a cyclic AMP analogue enhances the release of glutamate but not GABA from slices of rat dentate gyrus. *Neuroscience Letters*, **1983**, 43, 49-54	3.3	235
161	Pertussis toxin reverses adenosine inhibition of neuronal glutamate release. *Nature*, **1985**, 316, 148-50	50.4	226
160	Mechanisms of modulation of voltage-dependent calcium channels by G proteins. *Journal of Physiology*, **1998**, 506 (Pt 1), 3-11	3.9	219
159	Calcium-dependent currents in cultured rat dorsal root ganglion neurones are inhibited by an adenosine analogue. *Journal of Physiology*, **1986**, 373, 47-61	3.9	209
158	PI3K promotes voltage-dependent calcium channel trafficking to the plasma membrane. *Nature Neuroscience*, **2004**, 7, 939-46	25.5	208

157	Calcium channel diversity: multiple roles of calcium channel subunits. *Current Opinion in Neurobiology*, **2009**, 19, 237-44	7.6	188
156	Facilitation of Ca2+ current in excitable cells. *Trends in Neurosciences*, **1996**, 19, 35-43	13.3	175
155	The metal-ion-dependent adhesion site in the Von Willebrand factor-A domain of alpha2delta subunits is key to trafficking voltage-gated Ca2+ channels. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 11230-5	11.5	169
154	The alpha2delta subunits of voltage-gated calcium channels form GPI-anchored proteins, a posttranslational modification essential for function. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 1654-9	11.5	165
153	Voltage-gated calcium channels and their auxiliary subunits: physiology and pathophysiology and pharmacology. *Journal of Physiology*, **2016**, 594, 5369-90	3.9	161
152	Activation of a G protein promotes agonist responses to calcium channel ligands. *Nature*, **1987**, 330, 760-2	50.4	145
151	Genetic disruption of voltage-gated calcium channels in psychiatric and neurological disorders. *Progress in Neurobiology*, **2015**, 134, 36-54	10.9	143
150	Interactions of polyamines with neuronal ion channels. *Trends in Neurosciences*, **1993**, 16, 153-60	13.3	143
149	A short history of voltage-gated calcium channels. *British Journal of Pharmacology*, **2006**, 147 Suppl 1, S56-62	8.6	140
148	The □□subunits of voltage-gated calcium channels. *Biochimica Et Biophysica Acta - Biomembranes*, **2013**, 1828, 1541-9	3.8	130
147	Regulation of calcium currents by a GTP analogue: potentiation of (-)-baclofen-mediated inhibition. *Neuroscience Letters*, **1986**, 69, 59-64	3.3	127
146	The calcium channel alpha2delta-2 subunit partitions with CaV2.1 into lipid rafts in cerebellum: implications for localization and function. *Journal of Neuroscience*, **2006**, 26, 8748-57	6.6	126
145	Importance of the different beta subunits in the membrane expression of the alpha1A and alpha2 calcium channel subunits: studies using a depolarization-sensitive alpha1A antibody. *European Journal of Neuroscience*, **1997**, 9, 749-59	3.5	122
144	Presynaptic HCN1 channels regulate Cav3.2 activity and neurotransmission at select cortical synapses. *Nature Neuroscience*, **2011**, 14, 478-86	25.5	119
143	Inhibition of calcium currents in cultured rat dorsal root ganglion neurones by (-)-baclofen. *British Journal of Pharmacology*, **1986**, 88, 213-20	8.6	119
142	The ducky mutation in Cacna2d2 results in altered Purkinje cell morphology and is associated with the expression of a truncated alpha 2 delta-2 protein with abnormal function. *Journal of Biological Chemistry*, **2002**, 277, 7684-93	5.4	117
141	Nucleotide binding proteins in signal transduction and disease. *Trends in Neurosciences*, **1987**, 10, 53-57	13.3	111
140	Modelling of a voltage-dependent Ca2+ channel beta subunit as a basis for understanding its functional properties. *FEBS Letters*, **1999**, 445, 366-70	3.8	107

139	Descending serotonergic facilitation and the antinociceptive effects of pregabalin in a rat model of osteoarthritic pain. *Molecular Pain*, **2009**, 5, 45	3.4	106
138	The alpha2delta ligand gabapentin inhibits the Rab11-dependent recycling of the calcium channel subunit alpha2delta-2. *Journal of Neuroscience*, **2010**, 30, 12856-67	6.6	104
137	Identification of the amino terminus of neuronal Ca2+ channel alpha1 subunits alpha1B and alpha1E as an essential determinant of G-protein modulation. *Journal of Neuroscience*, **1998**, 18, 4815-24	6.6	104
136	Identification of residues in the N terminus of alpha1B critical for inhibition of the voltage-dependent calcium channel by Gbeta gamma. *Journal of Neuroscience*, **1999**, 19, 6855-64	6.6	102
135	Evidence for two concentration-dependent processes for beta-subunit effects on alpha1B calcium channels. *Biophysical Journal*, **2001**, 81, 1439-51	2.9	98
134	The effect of alpha2-delta and other accessory subunits on expression and properties of the calcium channel alpha1G. *Journal of Physiology*, **1999**, 519 Pt 1, 35-45	3.9	95
133	Fragile X mental retardation protein controls synaptic vesicle exocytosis by modulating N-type calcium channel density. *Nature Communications*, **2014**, 5, 3628	17.4	94
132	Anti-Ig-induced calcium influx in rat B lymphocytes mediated by cGMP through a dihydropyridine-sensitive channel. *Journal of Biological Chemistry*, **1996**, 271, 7297-300	5.4	94
131	Beta-subunits promote the expression of Ca(V)2.2 channels by reducing their proteasomal degradation. *Journal of Biological Chemistry*, **2011**, 286, 9598-611	5.4	93
130	The intracellular loop between domains I and II of the B-type calcium channel confers aspects of G-protein sensitivity to the E-type calcium channel. *Journal of Neuroscience*, **1997**, 17, 1330-8	6.6	92
129	Ca2+ channel beta-subunits: structural insights AID our understanding. *Trends in Pharmacological Sciences*, **2004**, 25, 626-32	13.2	89
128	Functional exofacially tagged N-type calcium channels elucidate the interaction with auxiliary α2δ1 subunits. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 8979-84	11.5	86
127	Calcium channel beta subunit promotes voltage-dependent modulation of alpha 1 B by G beta gamma. *Biophysical Journal*, **2000**, 79, 731-46	2.9	85
126	Cyclic nucleotide-dependent protein kinases and some major substrates in the rat cerebellum after neonatal X-irradiation. *Journal of Neurochemistry*, **1983**, 40, 577-81	6	85
125	Dominant-negative synthesis suppression of voltage-gated calcium channel Cav2.2 induced by truncated constructs. *Journal of Neuroscience*, **2001**, 21, 8495-504	6.6	81
124	α2δ1 gene deletion affects somatosensory neuron function and delays mechanical hypersensitivity in response to peripheral nerve damage. *Journal of Neuroscience*, **2013**, 33, 16412-26	6.6	78
123	A new look at calcium channel α2δ subunits. *Current Opinion in Neurobiology*, **2010**, 20, 563-71	7.6	77
122	Functional expression of rat brain cloned alpha1E calcium channels in COS-7 cells. *Pflugers Archiv European Journal of Physiology*, **1997**, 433, 523-32	4.6	76

121	What is the mechanism of long-term potentiation in the hippocampus?. *Trends in Neurosciences*, **1982**, 5, 289-290	13.3	76
120	A comparison of the effect of calcium channel ligands and GABAB agonists and antagonists on transmitter release and somatic calcium channel currents in cultured neurons. *Neuroscience*, **1990**, 38, 721-9	3.9	75
119	Genetically determined differences in noradrenergic input to the brain cortex: a histochemical and biochemical study in two inbred strains of mice. *Neuroscience*, **1979**, 4, 877-88	3.9	75
118	Dominant-negative calcium channel suppression by truncated constructs involves a kinase implicated in the unfolded protein response. *Journal of Neuroscience*, **2004**, 24, 5400-9	6.6	74
117	Intracellular calcium regulates the survival of early sensory neurons before they become dependent on neurotrophic factors. *Neuron*, **1992**, 9, 563-74	13.9	74
116	Serotonin stimulates phosphorylation of protein I in the facial motor nucleus of rat brain. *Nature*, **1981**, 289, 76-9	50.4	74
115	The novel product of a five-exon stargazin-related gene abolishes Ca(V)2.2 calcium channel expression. *EMBO Journal*, **2002**, 21, 1514-23	13	72
114	Interaction via a key tryptophan in the I-II linker of N-type calcium channels is required for beta1 but not for palmitoylated beta2, implicating an additional binding site in the regulation of channel voltage-dependent properties. *Journal of Neuroscience*, **2005**, 25, 6984-96	6.6	72
113	Known calcium channel alpha1 subunits can form low threshold small conductance channels with similarities to native T-type channels. *Neuron*, **1998**, 20, 341-51	13.9	71
112	G(o) transduces GABAB-receptor modulation of N-type calcium channels in cultured dorsal root ganglion neurons. *Pflugers Archiv European Journal of Physiology*, **1993**, 425, 335-43	4.6	70
111	The anti-allodynic alpha(2)delta ligand pregabalin inhibits the trafficking of the calcium channel alpha(2)delta-1 subunit to presynaptic terminals in vivo. *Biochemical Society Transactions*, **2010**, 38, 525-8	5.1	67
110	Functional expression and characterization of a voltage-gated CaV1.3 (alpha1D) calcium channel subunit from an insulin-secreting cell line. *Molecular Endocrinology*, **2001**, 15, 1211-21		65
109	An investigation into the mechanisms of inhibition of calcium channel currents in cultured sensory neurones of the rat by guanine nucleotide analogues and (-)-baclofen. *British Journal of Pharmacology*, **1989**, 97, 263-73	8.6	63
108	Regulation of calcium channel activity by GTP binding proteins and second messengers. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1991**, 1091, 68-80	4.9	61
107	Modulation of neuronal T-type calcium channel currents by photoactivation of intracellular guanosine 5ΘO(3-thio) triphosphate. *Neuroscience*, **1990**, 38, 285-94	3.9	60
106	Photoactivation of intracellular guanosine triphosphate analogues reduces the amplitude and slows the kinetics of voltage-activated calcium channel currents in sensory neurones. *Pflugers Archiv European Journal of Physiology*, **1988**, 411, 628-36	4.6	59
105	The alpha1B Ca2+ channel amino terminus contributes determinants for beta subunit-mediated voltage-dependent inactivation properties. *Journal of Physiology*, **2000**, 525 Pt 2, 377-90	3.9	58
104	Pharmacological evidence for cerebral dopamine receptor blockade by metoclopramide in rodents. *Psychopharmacology*, **1975**, 41, 133-8	4.7	57

103	The resolution of dopamine and beta 1- and beta 2-adrenergic-sensitive adenylate cyclase activities in homogenates of cat cerebellum, hippocampus and cerebral cortex. *Brain Research*, **1979**, 179, 305-17	3.7	56
102	The involvement of multiple calcium channel sub-types in glutamate release from cerebellar granule cells and its modulation by GABAB receptor activation. *Neuroscience*, **1995**, 68, 465-78	3.9	55
101	Mutant PrP suppresses glutamatergic neurotransmission in cerebellar granule neurons by impairing membrane delivery of VGCC (2)1 Subunit. *Neuron*, **2012**, 74, 300-13	13.9	53
100	The ducky(2J) mutation in Cacna2d2 results in reduced spontaneous Purkinje cell activity and altered gene expression. *Journal of Neuroscience*, **2006**, 26, 12576-86	6.6	53
99	Noradrenergic modulation of glutamate release in the cerebellum. *Brain Research*, **1982**, 252, 111-6	3.7	53
98	G-protein mediation in nociceptive signal transduction: an investigation into the excitatory action of bradykinin in a subpopulation of cultured rat sensory neurons. *Neuroscience*, **1992**, 49, 117-28	3.9	51
97	Time course and specificity of the pharmacological disruption of the trafficking of voltage-gated calcium channels by gabapentin. *Channels*, **2008**, 2, 4-9	3	50
96	Presynaptic calcium channels: specialized control of synaptic neurotransmitter release. *Nature Reviews Neuroscience*, **2020**, 21, 213-229	13.5	48
95	Functional Expression and Characterization of a Voltage-Gated CaV1.3 (1D) Calcium Channel Subunit from an Insulin-Secreting Cell Line. *Molecular Endocrinology*, **2001**, 15, 1211-1221		48
94	N terminus is key to the dominant negative suppression of Ca(V)2 calcium channels: implications for episodic ataxia type 2. *Journal of Biological Chemistry*, **2010**, 285, 835-44	5.4	47
93	Properties of cloned rat alpha1A calcium channels transiently expressed in the COS-7 cell line. *European Journal of Neuroscience*, **1997**, 9, 739-48	3.5	47
92	Actions of arginine polyamine on voltage and ligand-activated whole cell currents recorded from cultured neurones. *British Journal of Pharmacology*, **1992**, 106, 199-207	8.6	47
91	Voltage-dependent calcium channel beta-subunits in combination with alpha 1 subunits, have a GTPase activating effect to promote the hydrolysis of GTP by G alpha o in rat frontal cortex. *FEBS Letters*, **1995**, 370, 135-40	3.8	44
90	The three-dimensional structure of the cardiac L-type voltage-gated calcium channel: comparison with the skeletal muscle form reveals a common architectural motif. *Journal of Biological Chemistry*, **2004**, 279, 7159-68	5.4	43
89	Differential plasma membrane targeting of voltage-dependent calcium channel subunits expressed in a polarized epithelial cell line. *Journal of Physiology*, **1999**, 515 (Pt 3), 685-94	3.9	43
88	Interaction between calcium channel ligands and guanine nucleotides in cultured rat sensory and sympathetic neurones. *Journal of Physiology*, **1989**, 413, 271-88	3.9	42
87	Pregabalin suppresses spinal neuronal hyperexcitability and visceral hypersensitivity in the absence of peripheral pathophysiology. *Anesthesiology*, **2011**, 115, 144-52	4.3	42
86	Use of site-directed antibodies to probe the topography of the alpha 2 subunit of voltage-gated Ca2+ channels. *FEBS Letters*, **1995**, 364, 129-33	3.8	41

85	Vesicular apparatus, including functional calcium channels, are present in developing rodent optic nerve axons and are required for normal node of Ranvier formation. *Journal of Physiology*, **2008**, 586, 4069-89	3.9	40
84	3D structure of the skeletal muscle dihydropyridine receptor. *Journal of Molecular Biology*, **2002**, 323, 85-98	6.5	40
83	Three-dimensional structure of CaV3.1: comparison with the cardiac L-type voltage-gated calcium channel monomer architecture. *Journal of Biological Chemistry*, **2009**, 284, 22310-22321	5.4	39
82	Voltage-gated calcium channel ⍺subunits: an assessment of proposed novel roles. *F1000Research* , **2018**, 7,	3.6	39
81	Chronic pregabalin inhibits synaptic transmission between rat dorsal root ganglion and dorsal horn neurons in culture. *Channels*, **2012**, 6, 124-32	3	38
80	L-type calcium channel modulation. *Advances in Second Messenger and Phosphoprotein Research*, **1999**, 33, 153-77		37
79	Mapping protein interactions of sodium channel Na1.7 using epitope-tagged gene-targeted mice. *EMBO Journal*, **2018**, 37, 427-445	13	35
78	Facilitation of rabbit alpha1B calcium channels: involvement of endogenous Gbetagamma subunits. *Journal of Physiology*, **1998**, 509 (Pt 1), 15-27	3.9	34
77	Human neuronal stargazin-like proteins, gamma2, gamma3 and gamma4; an investigation of their specific localization in human brain and their influence on CaV2.1 voltage-dependent calcium channels expressed in Xenopus oocytes. *BMC Neuroscience*, **2003**, 4, 23	3.2	34
76	Calcium Channel α2δ Subunits: Structure, Functions and Target Site for Drugs. *Current Neuropharmacology*, **2003**, 1, 209-217	7.6	34
75	Differential upregulation in DRG neurons of an ⍺2⍺1 splice variant with a lower affinity for gabapentin after peripheral sensory nerve injury. *Pain*, **2014**, 155, 522-533	8	33
74	Role of domain I of neuronal Ca2+ channel alpha1 subunits in G protein modulation. *Journal of Physiology*, **1998**, 509 (Pt 1), 163-9	3.9	33
73	The upregulation of ⍺2⍺1 subunit modulates activity-dependent Ca2+ signals in sensory neurons. *Journal of Neuroscience*, **2015**, 35, 5891-903	6.6	32
72	Alternative Splicing in Ca(V)2.2 Regulates Neuronal Trafficking via Adaptor Protein Complex-1 Adaptor Protein Motifs. *Journal of Neuroscience*, **2015**, 35, 14636-52	6.6	32
71	The effect of overexpression of auxiliary Ca2+ channel subunits on native Ca2+ channel currents in undifferentiated mammalian NG108-15 cells. *Journal of Physiology*, **1998**, 510 (Pt 2), 347-60	3.9	32
70	The stargazin-related protein gamma 7 interacts with the mRNA-binding protein heterogeneous nuclear ribonucleoprotein A2 and regulates the stability of specific mRNAs, including CaV2.2. *Journal of Neuroscience*, **2008**, 28, 10604-17	6.6	32
69	Proteolytic maturation of ⍺represents a checkpoint for activation and neuronal trafficking of latent calcium channels. *ELife*, **2016**, 5,	8.9	31
68	Ablation of ⍺1 inhibits cell-surface trafficking of endogenous N-type calcium channels in the pain pathway in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E12043-E12052	11.5	31

67	The HOOK-domain between the SH3 and the GK domains of Cavbeta subunits contains key determinants controlling calcium channel inactivation. *Channels*, **2007**, 1, 92-101	3	30
66	Voltage-gated calcium channels: their discovery, function and importance as drug targets. *Brain and Neuroscience Advances*, **2018**, 2,	4	30
65	Thrombospondin-4 reduces binding affinity of [(3)H]-gabapentin to calcium-channel 2E1-subunit but does not interact with 2E1 on the cell-surface when co-expressed. *Scientific Reports*, **2016**, 6, 24531	4.9	29
64	Calcium currents are enhanced by 2E1 lacking its membrane anchor. *Journal of Biological Chemistry*, **2012**, 287, 33554-66	5.4	29
63	Ca2+ currents in cerebellar granule neurones: role of internal Mg2+ in altering characteristics and antagonist effects. *Neuropharmacology*, **1993**, 32, 1171-83	5.5	28
62	Activation of calcium channel currents in rat sensory neurons by large depolarizations: effect of Guanine nucleotides and (-)-baclofen. *European Journal of Neuroscience*, **1990**, 2, 104-8	3.5	28
61	LRP1 influences trafficking of N-type calcium channels via interaction with the auxiliary E1 subunit. *Scientific Reports*, **2017**, 7, 43802	4.9	26
60	L-type voltage-gated calcium channels: understanding function through structure. *FEBS Letters*, **2004**, 564, 245-50	3.8	26
59	The importance of occupancy rather than affinity of CaV(beta) subunits for the calcium channel I-II linker in relation to calcium channel function. *Journal of Physiology*, **2006**, 574, 387-98	3.9	25
58	The like Protein Cachd1 Increases N-type Calcium Currents and Cell Surface Expression and Competes with 1. *Cell Reports*, **2018**, 25, 1610-1621.e5	10.6	24
57	The CaV subunit Protects the I-II Loop of the Voltage-gated Calcium Channel CaV2.2 from Proteasomal Degradation but Not Oligoubiquitination. *Journal of Biological Chemistry*, **2016**, 291, 20402-16	5.4	23
56	Proteolytic maturation of controls the probability of synaptic vesicular release. *ELife*, **2018**, 7,	8.9	21
55	Calmodulin regulates Ca3 T-type channels at their gating brake. *Journal of Biological Chemistry*, **2017**, 292, 20010-20031	5.4	20
54	Altered expression of the voltage-gated calcium channel subunit E1: a comparison between two experimental models of epilepsy and a sensory nerve ligation model of neuropathic pain. *Neuroscience*, **2014**, 283, 124-37	3.9	19
53	Overlapping selectivity of neurotoxin and dihydropyridine calcium channel blockers in cerebellar granule neurones. *Neuropharmacology*, **2000**, 39, 1740-55	5.5	18
52	Voltage-gated calcium channel blockers for psychiatric disorders: genomic reappraisal. *British Journal of Psychiatry*, **2020**, 216, 250-253	5.4	18
51	Determinants of the voltage dependence of G protein modulation within calcium channel beta subunits. *Pflugers Archiv European Journal of Physiology*, **2009**, 457, 743-56	4.6	17
50	Kinetics and Gbetagamma modulation of Ca(v)2.2 channels with different auxiliary beta subunits. *Pflugers Archiv European Journal of Physiology*, **2002**, 444, 263-75	4.6	17

49	G protein modulation of calcium entry and transmitter release. *Annals of the New York Academy of Sciences*, **1991**, 635, 139-52	6.5	16
48	Noradrenaline-sensitive adenylate cyclase in slices of mouse limbic forebrain: characterisation and effect of dopaminergic agonists. *Biochemical Pharmacology*, **1977**, 26, 1877-84	6	16
47	FMRP regulates presynaptic localization of neuronal voltage gated calcium channels. *Neurobiology of Disease*, **2020**, 138, 104779	7.5	14
46	Mechanism of action of Gq to inhibit G beta gamma modulation of CaV2.2 calcium channels: probed by the use of receptor-G alpha tandems. *Molecular Pharmacology*, **2003**, 63, 832-43	4.3	14
45	Disruption of the Key Ca Binding Site in the Selectivity Filter of Neuronal Voltage-Gated Calcium Channels Inhibits Channel Trafficking. *Cell Reports*, **2019**, 29, 22-33.e5	10.6	13
44	Presence of protein I, a phosphoprotein associated with synaptic vesicles, in cerebellar granule cells. *Journal of Neurochemistry*, **1981**, 36, 1627-31	6	13
43	Effect of knockout of 2E1 on action potentials in mouse sensory neurons. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2016**, 371,	5.8	13
42	T-type Ca2+ channels are required for enhanced sympathetic axon growth by TNF reverse signalling. *Open Biology*, **2017**, 7,	7	11
41	The effect of phosphatase inhibitors and agents increasing cyclic-AMP-dependent phosphorylation on calcium channel currents in cultured rat dorsal root ganglion neurones: interaction with the effect of G protein activation. *Pflugers Archiv European Journal of Physiology*, **1992**, 421, 138-45	4.6	11
40	Labelling of the 3D structure of the cardiac L-type voltage-gated calcium channel. *Channels*, **2009**, 3, 387-92	3	10
39	Dissection of the calcium channel domains responsible for modulation of neuronal voltage-dependent calcium channels by G proteins. *Annals of the New York Academy of Sciences*, **1999**, 868, 160-74	6.5	10
38	Functions of Presynaptic Voltage-gated Calcium Channels. *Function*, **2021**, 2, zqaa027	6.1	10
37	The inhibition of functional expression of calcium channels by prion protein demonstrates competition with 2 for GPI-anchoring pathways. *Biochemical Journal*, **2014**, 458, 365-74	3.8	9
36	L-type calcium channels: on the fast track to nuclear signaling. *Science Signaling*, **2012**, 5, pe34	8.8	9
35	G-protein regulation of neuronal voltage-activated calcium currents. *General Pharmacology*, **1989**, 20, 715-20		9
34	Direct interaction of LSD with central "beta"-adrenergic receptors. *Life Sciences*, **1978**, 22, 345-52	6.8	9
33	IgGs from patients with amyotrophic lateral sclerosis and diabetes target Ca1 subunits impairing islet cell function and survival. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**,	11.5	9
32	G protein modulation of voltage-dependent calcium channels and transmitter release. *Biochemical Society Transactions*, **1993**, 21, 391-5	5.1	8

31	Cycloheximide abolishes pertussis toxin-induced increase in glutamate release from cerebellar granule neurones. *Neuroscience Letters*, **1994**, 166, 17-22	3.3	8
30	Modulation of neuronal Ca(2+)-dependent currents by neurotransmitters, G-proteins and toxins. *Biochemical Society Transactions*, **1992**, 20, 443-9	5.1	8
29	Behavioural and biochemical effects of chronic reduction of cerebral noradrenaline receptor stimulation. *Naunyn-Schmiedeberg's Archives of Pharmacology*, **1977**, 299, 167-73	3.4	8
28	A CaV2.1 N-terminal fragment relieves the dominant-negative inhibition by an Episodic ataxia 2 mutant. *Neurobiology of Disease*, **2016**, 93, 243-56	7.5	7
27	Modulation of Ca2+-channel currents in sensory neurons by pertussis toxin-sensitive G-proteins. *Annals of the New York Academy of Sciences*, **1989**, 560, 387-90	6.5	7
26	Modification of the L-DOPA reversal of reserpine akinesia by inhibitors of dopamine-beta-hydroxylase. *European Journal of Pharmacology*, **1976**, 35, 135-44	5.3	7
25	Stargazin-related protein γ is associated with signalling endosomes in superior cervical ganglion neurons and modulates neurite outgrowth. *Journal of Cell Science*, **2011**, 124, 2049-57	5.3	6
24	Introduction to the Theme "Ion Channels and Neuropharmacology: From the Past to the Future". *Annual Review of Pharmacology and Toxicology*, **2020**, 60, 1-6	17.9	6
23	Rab11-dependent recycling of calcium channels is mediated by auxiliary subunit β1 but not β3. *Scientific Reports*, **2021**, 11, 10256	4.9	5
22	Neuronal protein phosphorylation: recent studies concerning protein I, a synapse-specific phosphoprotein. *Pharmacology Biochemistry and Behavior*, **1980**, 13 Suppl 1, 169-74	3.9	4
21	Amino acid sensor conserved from bacteria to humans.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2110415119	11.5	4
20	Modulation of voltage-dependent calcium channels in cultured neurons. *Annals of the New York Academy of Sciences*, **1994**, 747, 325-35	6.5	3
19	P21-ras is involved in regulation of voltage-dependent calcium channels in cultured rat dorsal root ganglion cells. *Biochemical Society Transactions*, **1995**, 23, 193S	5.1	3
18	Biallelic CACNA2D1 loss-of-function variants cause early-onset developmental epileptic encephalopathy.. *Brain*, **2022**,	11.2	3
17	Using Exofacially Tagged Functional Cav2.2 to Investigate the Modulation of Pore Subunit Trafficking by Auxiliary Calcium Channel Subunits. *Biophysical Journal*, **2014**, 106, 330a	2.9	2
16	Age of quantitative proteomics hits voltage-gated calcium channels. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 14941-2	11.5	2
15	The Involvement of Calcium Channel α2δ Subunits in Diseases and as a Therapeutic Target **2014**, 97-114		2
14	Receptor-G Protein-Effector Coupling: Coding and Regulation of the Signal Transduction Process **1995**, 91-103		2

13	Fight or flight: The culprit is lurking in the neighbourhood. *Cell Calcium*, **2020**, 87, 102180	4	1
12	Gender: missing the prizes that can inspire a career. *Nature*, **2006**, 442, 868	50.4	1
11	G protein localization in cultured dorsal root ganglion neurones. *Biochemical Society Transactions*, **1993**, 21, 301-2	5.1	1
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9	ADAM17 Mediates Proteolytic Maturation of Voltage-Gated Calcium Channel Auxiliary β Subunits, and Enables Calcium Current Enhancement.. *Function*, **2022**, 3, zqac013	6.1	1
8	Calcium channel β subunits in epilepsy and as targets for antiepileptic drugs. *Epilepsia*, **2010**, 51, 82-82	6.4	0
7	The role of N-type calcium channels and their auxiliary subunits in pain pathways. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, SY19-4	0	
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