Annette C Dolphin

List of Publications by Year
in descending order

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177 papers	14,963 citations	12303 69 h-index	19690 117 g-index

315 all docs	315 docs citations	315 times ranked	9318 citing authors

#	Article	IF	Citations
1	The Physiology, Pathology, and Pharmacology of Voltage-Gated Calcium Channels and Their Future Therapeutic Potential. Pharmacological Reviews, 2015, 67, 821-870.	7.1	793
2	Identification of the Â2-Â-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, 17537-17542.	3.3	523
3	Somatic mutations in ATP1A1 and CACNA1D underlie a common subtype of adrenal hypertension. Nature Genetics, 2013, 45, 1055-1060.	9.4	446
4	Long-term potentiation of the perforant path in vivo is associated with increased glutamate release. Nature, 1982, 297, 496-497.	13.7	389
5	The Increased Trafficking of the Calcium Channel Subunit Î±₂Î´-1 to Presynaptic Terminals in Neuropathic Pain Is Inhibited by the Î±₂Î´ Ligand Pregabalin. Journal of Neuroscience, 2009, 29, 4076-4088.	1.7	372
6	Pharmacological disruption of calcium channel trafficking by the Î± ₂ Î´ ligand gabapentin. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3628-3633.	3.3	353
7	Functional biology of the Î±2Î´ subunits of voltage-gated calcium channels. Trends in Pharmacological Sciences, 2007, 28, 220-228.	4.0	334
8	Calcium channel auxiliary Î±2Î´ and Î² subunits: trafficking and one step beyond. Nature Reviews Neuroscience, 2012, 13, 542-555.	4.9	324
9	Â Subunits of Voltage-Gated Calcium Channels. Journal of Bioenergetics and Biomembranes, 2003, 35, 599-620.	1.0	322
10	Î±2Î´ expression sets presynaptic calcium channel abundance and release probability. Nature, 2012, 486, 122-125.	13.7	320
11	Ducky Mouse Phenotype of Epilepsy and Ataxia Is Associated with Mutations in theCacna2d2Gene and Decreased Calcium Channel Current in Cerebellar Purkinje Cells. Journal of Neuroscience, 2001, 21, 6095-6104.	1.7	289
12	Voltageâ€gated calcium channels and their auxiliary subunits: physiology and pathophysiology and pharmacology. Journal of Physiology, 2016, 594, 5369-5390.	1.3	262
13	G Protein Modulation of Voltage-Gated Calcium Channels. Pharmacological Reviews, 2003, 55, 607-627.	7.1	260
14	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.	1.0	251
15	Pertussis toxin reverses adenosine inhibition of neuronal glutamate release. Nature, 1985, 316, 148-150.	13.7	246
16	Mechanisms of modulation of voltage-dependent calcium channels by G proteins. Journal of Physiology, 1998, 506, 3-11.	1.3	245
17	PI3K promotes voltage-dependent calcium channel trafficking to the plasma membrane. Nature Neuroscience, 2004, 7, 939-946.	7.1	235
18	Calciumâ€dependent currents in cultured rat dorsal root ganglion neurones are inhibited by an adenosine analogue.. Journal of Physiology, 1986, 373, 47-61.	1.3	232

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19	Calcium channel diversity: multiple roles of calcium channel subunits. Current Opinion in Neurobiology, 2009, 19, 237-244.	2.0	206
20	The Î± ₂ Î´ 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, 1654-1659.	3.3	203
21	The metal-ion-dependent adhesion site in the Von Willebrand factor-A domain of Â2Â subunits is key to trafficking voltage-gated Ca2+ channels. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11230-11235.	3.3	192
22	Genetic disruption of voltage-gated calcium channels in psychiatric and neurological disorders. Progress in Neurobiology, 2015, 134, 36-54.	2.8	187
23	Facilitation of Ca2+ current in excitable cells. Trends in Neurosciences, 1996, 19, 35-43.	4.2	185
24	The Î±2Î´ subunits of voltage-gated calcium channels. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 1541-1549.	1.4	173
25	A short history of voltage-gated calcium channels. British Journal of Pharmacology, 2006, 147, S56-S62.	2.7	170
26	Activation of a G protein promotes agonist responses to calcium channel ligands. Nature, 1987, 330, 760-762.	13.7	161
27	Presynaptic HCN1 channels regulate CaV3.2 activity and neurotransmission at select cortical synapses. Nature Neuroscience, 2011, 14, 478-486.	7.1	154
28	Interactions of polyamines with neuronal ion channels. Trends in Neurosciences, 1993, 16, 153-160.	4.2	151
29	The Calcium Channel Â2Â-2 Subunit Partitions with CaV2.1 into Lipid Rafts in Cerebellum: Implications for Localization and Function. Journal of Neuroscience, 2006, 26, 8748-8757.	1.7	142
30	Regulation of calcium currents by a GTP analogue: Potentiation of (â˜)-baclofen-mediated inhibition. Neuroscience Letters, 1986, 69, 59-64.	1.0	137
31	The Ducky Mutation in Cacna2d2 Results in Altered Purkinje Cell Morphology and Is Associated with the Expression of a Truncated Î±2Î´-2 Protein with Abnormal Function. Journal of Biological Chemistry, 2002, 277, 7684-7693.	1.6	137
32	Presynaptic calcium channels: specialized control of synaptic neurotransmitter release. Nature Reviews Neuroscience, 2020, 21, 213-229.	4.9	136
33	Importance of the Different |Î² Subunits in the Membrane Expression of the Î±1A and Î±2 Calcium Channel Subunits: Studies Using a Depolarization-sensitive Î±1A Antibody. European Journal of Neuroscience, 1997, 9, 749-759.	1.2	134
34	Inhibition of calcium currents in cultured rat dorsal root ganglion neurones by (â˜)â€baclofen. British Journal of Pharmacology, 1986, 88, 213-220.	2.7	131
35	The Î±₂Î´ Ligand Gabapentin Inhibits the Rab11-Dependent Recycling of the Calcium Channel Subunit Î±₂Î´-2. Journal of Neuroscience, 2010, 30, 12856-12867.	1.7	127
36	Nucleotide binding proteins in signal transduction and disease. Trends in Neurosciences, 1987, 10, 53-57.	4.2	125

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37	Functional exofacially tagged N-type calcium channels elucidate the interaction with auxiliary Î± ₂ Î´-1 subunits. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8979-8984.	3.3	119
38	Descending Serotonergic Facilitation and the Antinociceptive Effects of Pregabalin in a Rat Model of Osteoarthritic Pain. Molecular Pain, 2009, 5, 1744-8069-5-45.	1.0	116
39	Modelling of a voltage-dependent Ca2+channel Î² subunit as a basis for understanding its functional properties. FEBS Letters, 1999, 445, 366-370.	1.3	114
40	The effect of Î±2-Î´ and other accessory subunits on expression and properties of the calcium channel Î±1G. Journal of Physiology, 1999, 519, 35-45.	1.3	113
41	Fragile X mental retardation protein controls synaptic vesicle exocytosis by modulating N-type calcium channel density. Nature Communications, 2014, 5, 3628.	5.8	113
42	Identification of the Amino Terminus of Neuronal Ca²⁺Channel Î±1 Subunits Î±1B and Î±1E as an Essential Determinant of G-Protein Modulation. Journal of Neuroscience, 1998, 18, 4815-4824.	1.7	110
43	Identification of Residues in the N Terminus of Î±1B Critical for Inhibition of the Voltage-Dependent Calcium Channel by GÎ²Î³. Journal of Neuroscience, 1999, 19, 6855-6864.	1.7	109
44	Î±₂Î´-1 Gene Deletion Affects Somatosensory Neuron Function and Delays Mechanical Hypersensitivity in Response to Peripheral Nerve Damage. Journal of Neuroscience, 2013, 33, 16412-16426.	1.7	105
45	Evidence for Two Concentration-Dependent Processes for Î²-Subunit Effects on Î±1B Calcium Channels. Biophysical Journal, 2001, 81, 1439-1451.	0.2	104
46	Î²-Subunits Promote the Expression of CaV2.2 Channels by Reducing Their Proteasomal Degradation. Journal of Biological Chemistry, 2011, 286, 9598-9611.	1.6	104
47	Ca2+ channel Î²-subunits: structural insights AID our understanding. Trends in Pharmacological Sciences, 2004, 25, 626-632.	4.0	100
48	Anti-Ig-induced Calcium Influx in Rat B Lymphocytes Mediated by cGMP through a Dihydropyridine-sensitive Channel. Journal of Biological Chemistry, 1996, 271, 7297-7300.	1.6	99
49	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, 1330-1338.	1.7	94
50	Calcium Channel Î² Subunit Promotes Voltage-Dependent Modulation of Î±1B by GÎ²Î³. Biophysical Journal, 2000, 79, 731-746.	0.2	91
51	Functional expression of rat brain cloned Î±1E calcium channels in COS-7 cells. Pflugers Archiv European Journal of Physiology, 1997, 433, 523-532.	1.3	90
52	A new look at calcium channel Î±2Î´ subunits. Current Opinion in Neurobiology, 2010, 20, 563-571.	2.0	88
53	Cyclic Nucleotide-Dependent Protein Kinases and Some Major Substrates in the Rat Cerebellum After Neonatal X-Irradiation. Journal of Neurochemistry, 1983, 40, 577-581.	2.1	87
54	Dominant-Negative Synthesis Suppression of Voltage-Gated Calcium Channel Ca_v2.2 Induced by Truncated Constructs. Journal of Neuroscience, 2001, 21, 8495-8504.	1.7	87

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55	The anti-allodynic Î±2Î´ ligand pregabalin inhibits the trafficking of the calcium channel Î±2Î´-1 subunit to presynaptic terminals in vivo. Biochemical Society Transactions, 2010, 38, 525-528.	1.6	82
56	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, 721-729.	1.1	81
57	What is the mechanism of long-term potentiation in the hippocampus?. Trends in Neurosciences, 1982, 5, 289-290.	4.2	79
58	The novel product of a five-exon stargazin-related gene abolishes CaV2.2 calcium channel expression. EMBO Journal, 2002, 21, 1514-1523.	3.5	79
59	Pharmacological evidence for cerebral dopamine receptor blockade by metoclopramide in rodents. Psychopharmacology, 1975, 41, 133-138.	1.5	78
60	Serotonin stimulates phosphorylation of Protein I in the facial motor nucleus of rat brain. Nature, 1981, 289, 76-79.	13.7	78
61	Intracellular calcium regulates the survival of early sensory neurons before they become dependent on neurotrophic factors. Neuron, 1992, 9, 563-574.	3.8	78
62	Genetically determined differences in noradrenergic input to the brain cortex: A histochemical and biochemical study in two inbred strains of mice. Neuroscience, 1979, 4, 877-888.	1.1	77
63	Known Calcium Channel Î±1 Subunits Can Form Low Threshold Small Conductance Channels with Similarities to Native T-Type Channels. Neuron, 1998, 20, 341-351.	3.8	77
64	Dominant-Negative Calcium Channel Suppression by Truncated Constructs Involves a Kinase Implicated in the Unfolded Protein Response. Journal of Neuroscience, 2004, 24, 5400-5409.	1.7	77
65	Go transduces GABAB-receptor modulation of N-type calcium channels in cultured dorsal root ganglion neurons. Pflugers Archiv European Journal of Physiology, 1993, 425, 335-343.	1.3	76
66	Interaction via a Key Tryptophan in the I-II Linker of N-Type Calcium Channels Is Required for Â1 But Not for Palmitoylated Â2, Implicating an Additional Binding Site in the Regulation of Channel Voltage-Dependent Properties. Journal of Neuroscience, 2005, 25, 6984-6996.	1.7	75
67	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, 628-636.	1.3	71
68	Voltage-gated calcium channel Î±2Î´ subunits: an assessment of proposed novel roles. F1000Research, 2018, 7, 1830.	0.8	71
69	An investigation into the mechanisms of inhibition of calcium channel currents in cultured sensory neurones of the rat by guanine nucleotide analogues and (â^')â^' baclofen. British Journal of Pharmacology, 1989, 97, 263-273.	2.7	69
70	Regulation of calcium channel activity by GTP binding proteins and second messengers. Biochimica Et Biophysica Acta - Molecular Cell Research, 1991, 1091, 68-80.	1.9	69
71	Functional Expression and Characterization of a Voltage-Gated CaV1.3 (Î±1D) Calcium Channel Subunit from an Insulin-Secreting Cell Line. Molecular Endocrinology, 2001, 15, 1211-1221.	3.7	68
72	Mutant PrP Suppresses Glutamatergic Neurotransmission in Cerebellar Granule Neurons by Impairing Membrane Delivery of VGCC Î±2Î´-1 Subunit. Neuron, 2012, 74, 300-313.	3.8	64

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73	Modulation of neuronal T-type calcium channel currents by photoactivation of intracellular guanosine 5â€²-0(3-thio) triphosphate. Neuroscience, 1990, 38, 285-294.	1.1	62
74	The ducky2J Mutation in Cacna2d2 Results in Reduced Spontaneous Purkinje Cell Activity and Altered Gene Expression. Journal of Neuroscience, 2006, 26, 12576-12586.	1.7	61
75	Noradrenergic modulation of glutamate release in the cerebellum. Brain Research, 1982, 252, 111-116.	1.1	60
76	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, 465-478.	1.1	60
77	The Î±1B Ca 2+ channel amino terminus contributes determinants for Î² subunitâ€mediated voltageâ€dependent inactivation properties. Journal of Physiology, 2000, 525, 377-390.	1.3	60
78	The resolution of dopamine and Î²1- and Î²2-adrenergic-sensitive adenylate cyclase activities in homogenates of cat cerebellum, hippocampus and cerebral cortex. Brain Research, 1979, 179, 305-317.	1.1	59
79	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, 117-128.	1.1	57
80	Time course and specificity of the pharmacological disruption of the trafficking of voltage-gated calcium channels by gabapentin. Channels, 2008, 2, 4-9.	1.5	55
81	Ablation of Î± ₂ Î´-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.	3.3	55
82	Mapping protein interactions of sodium channel Na _V 1.7 using epitopeâ€tagged geneâ€targeted mice. EMBO Journal, 2018, 37, 427-445.	3.5	54
83	The Three-dimensional Structure of the Cardiac L-type Voltage-gated Calcium Channel. Journal of Biological Chemistry, 2004, 279, 7159-7168.	1.6	51
84	Actions of arginine polyamine on voltage and ligandâ€activated whole cell currents recorded from cultured neurones. British Journal of Pharmacology, 1992, 106, 199-207.	2.7	50
85	Properties of Cloned Rat Î±1A Calcium Channels Transiently Expressed in the COS-7 Cell Line. European Journal of Neuroscience, 1997, 9, 739-748.	1.2	50
86	N Terminus Is Key to the Dominant Negative Suppression of CaV2 Calcium Channels. Journal of Biological Chemistry, 2010, 285, 835-844.	1.6	50
87	Pregabalin Suppresses Spinal Neuronal Hyperexcitability and Visceral Hypersensitivity in the Absence of Peripheral Pathophysiology. Anesthesiology, 2011, 115, 144-152.	1.3	50
88	Interaction between calcium channel ligands and guanine nucleotides in cultured rat sensory and sympathetic neurones.. Journal of Physiology, 1989, 413, 271-288.	1.3	49
89	Functional Expression and Characterization of a Voltage-Gated CaV1.3 (Â1D) Calcium Channel Subunit from an Insulin-Secreting Cell Line. Molecular Endocrinology, 2001, 15, 1211-1221.	3.7	49
90	Use of site-directed antibodies to probe the topography of theÎ±2subunit of voltage-gated Ca2+channels. FEBS Letters, 1995, 364, 129-133.	1.3	48

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91	Voltage-dependent calcium channel Î²-subunits in combination withÎ±1subunits, have a GTPase activating effect to promote the hydrolysis of GTP by GÎ±oin rat frontal cortex. FEBS Letters, 1995, 370, 135-140.	1.3	47
92	3D Structure of the Skeletal Muscle Dihydropyridine Receptor. Journal of Molecular Biology, 2002, 323, 85-98.	2.0	47
93	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, 4069-4089.	1.3	47
94	Chronic pregabalin inhibits synaptic transmission between rat dorsal root ganglion and dorsal horn neurons in culture. Channels, 2012, 6, 124-132.	1.5	46
95	Voltage-gated calcium channels: Their discovery, function and importance as drug targets. Brain and Neuroscience Advances, 2018, 2, 239821281879480.	1.8	46
96	Differential plasma membrane targeting of voltage-dependent calcium channel subunits expressed in a polarized epithelial cell line. Journal of Physiology, 1999, 515, 685-694.	1.3	45
97	The Upregulation of Î±₂Î´-1 Subunit Modulates Activity-Dependent Ca²⁺Signals in Sensory Neurons. Journal of Neuroscience, 2015, 35, 5891-5903.	1.7	44
98	Proteolytic maturation of Î±2Î´ represents a checkpoint for activation and neuronal trafficking of latent calcium channels. ELife, 2016, 5, .	2.8	43
99	Three-dimensional Structure of CaV3.1. Journal of Biological Chemistry, 2009, 284, 22310-22321.	1.6	41
100	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.	0.8	40
101	Alternative Splicing in Ca_V2.2 Regulates Neuronal Trafficking via Adaptor Protein Complex-1 Adaptor Protein Motifs. Journal of Neuroscience, 2015, 35, 14636-14652.	1.7	40
102	The Î±2Î´-like Protein Cachd1 Increases N-type Calcium Currents and Cell Surface Expression and Competes with Î±2Î´-1. Cell Reports, 2018, 25, 1610-1621.e5.	2.9	40
103	7 L-Type calcium channel modulation. Advances in Second Messenger and Phosphoprotein Research, 1999, 33, 153-177.	4.5	40
104	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, 347-360.	1.3	39
105	LRP1 influences trafficking of N-type calcium channels via interaction with the auxiliary Î±2Î´-1 subunit. Scientific Reports, 2017, 7, 43802.	1.6	37
106	Calcium Channel α2δ Subunits: Structure, Functions and Target Site for Drugs. Current Neuropharmacology, 2003, 1, 209-217.	1.4	37
107	Differential upregulation in DRG neurons of an Î±2Î´-1 splice variant with a lower affinity for gabapentin after peripheral sensory nerve injury. Pain, 2014, 155, 522-533.	2.0	36
108	The Stargazin-Related Protein Î³7 Interacts with the mRNA-Binding Protein Heterogeneous Nuclear Ribonucleoprotein A2 and Regulates the Stability of Specific mRNAs, Including Ca_V2.2. Journal of Neuroscience, 2008, 28, 10604-10617.	1.7	35

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109	Voltage-gated calcium channel blockers for psychiatric disorders: genomic reappraisal. British Journal of Psychiatry, 2020, 216, 250-253.	1.7	35
110	Facilitation of rabbit Î±1Bcalcium channels: involvement of endogenous GÎ²Î³ subunits. Journal of Physiology, 1998, 509, 15-27.	1.3	34
111	L-type voltage-gated calcium channels: understanding function through structure. FEBS Letters, 2004, 564, 245-250.	1.3	34
112	Thrombospondin-4 reduces binding affinity of [3H]-gabapentin to calcium-channel Î±2Î´-1-subunit but does not interact with Î±2Î´-1 on the cell-surface when co-expressed. Scientific Reports, 2016, 6, 24531.	1.6	34
113	Role of domain I of neuronal Ca2+channel Î±1 subunits in G protein modulation. Journal of Physiology, 1998, 509, 163-169.	1.3	33
114	The HOOK-Domain Between the SH3- and the GK-Domains of Ca_VÎ² Subunits Contains Key Determinants Controlling Calcium Channel Inactivation. Channels, 2007, 1, 92-101.	1.5	32
115	Calcium Currents Are Enhanced by Î±2Î´-1 Lacking Its Membrane Anchor. Journal of Biological Chemistry, 2012, 287, 33554-33566.	1.6	32
116	Proteolytic maturation of Î±2Î´ controls the probability of synaptic vesicular release. ELife, 2018, 7, .	2.8	32
117	Amino acid sensor conserved from bacteria to humans. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2110415119.	3.3	31
118	Activation of Calcium Channel Currents in Rat Sensory Neurons by Large Depolarizations: Effect of Guanine Nucleotides and (-)-Baclofen. European Journal of Neuroscience, 1990, 2, 104-108.	1.2	30
119	Ca2+ currents in cerebellar granule neurones: Role of internal MG2+ in altering characteristics and antagonist effects. Neuropharmacology, 1993, 32, 1171-1183.	2.0	30
120	Calmodulin regulates Cav3 T-type channels at their gating brake. Journal of Biological Chemistry, 2017, 292, 20010-20031.	1.6	29
121	The CaVÎ² 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, 20402-20416.	1.6	28
122	Functions of Presynaptic Voltage-gated Calcium Channels. Function, 2020, 2, zqaa027.	1.1	27
123	The importance of occupancy rather than affinity of CaVÎ² subunits for the calcium channel I-II linker in relation to calcium channel function. Journal of Physiology, 2006, 574, 387-398.	1.3	26
124	Altered expression of the voltage-gated calcium channel subunit Î±2Î´-1: A comparison between two experimental models of epilepsy and a sensory nerve ligation model of neuropathic pain. Neuroscience, 2014, 283, 124-137.	1.1	26
125	FMRP regulates presynaptic localization of neuronal voltage gated calcium channels. Neurobiology of Disease, 2020, 138, 104779.	2.1	25
126	Overlapping selectivity of neurotoxin and dihydropyridine calcium channel blockers in cerebellar granule neurones. Neuropharmacology, 2000, 39, 1740-1755.	2.0	21

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127	Kinetics and GÎ²Î³ modulation of Cav2.2 channels with different auxiliary Î² subunits. Pflugers Archiv European Journal of Physiology, 2002, 444, 263-275.	1.3	19
128	Determinants of the voltage dependence of G protein modulation within calcium channel Î² subunits. Pflugers Archiv European Journal of Physiology, 2009, 457, 743-756.	1.3	18
129	G Protein Modulation of Calcium Entry and Transmitter Release. Annals of the New York Academy of Sciences, 1991, 635, 139-152.	1.8	17
130	Disruption of the Key Ca2+ Binding Site in the Selectivity Filter of Neuronal Voltage-Gated Calcium Channels Inhibits Channel Trafficking. Cell Reports, 2019, 29, 22-33.e5.	2.9	17
131	Noradrenaline-sensitive adenylate cyclase in slices of mouse limbic forebrain: characterisation and effect of dopaminergic agonists. Biochemical Pharmacology, 1977, 26, 1877-1884.	2.0	16
132	Mechanism of Action of Gqto Inhibit GÎ²Î³ Modulation of CaV2.2 Calcium Channels: Probed by the Use of Receptor-GÎ± Tandems. Molecular Pharmacology, 2003, 63, 832-843.	1.0	16
133	Effect of knockout of Î± ₂ Î´-1 on action potentials in mouse sensory neurons. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150430.	1.8	16
134	Biallelic CACNA2D1 loss-of-function variants cause early-onset developmental epileptic encephalopathy. Brain, 2022, 145, 2721-2729.	3.7	15
135	Presence of Protein I, a Phosphoprotein Associated with Synaptic Vesicles, in Cerebellar Granule Cells. Journal of Neurochemistry, 1981, 36, 1627-1631.	2.1	13
136	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, 138-145.	1.3	13
137	L-Type Calcium Channels: On the Fast Track to Nuclear Signaling. Science Signaling, 2012, 5, pe34.	1.6	13
138	T-type Ca ²⁺ channels are required for enhanced sympathetic axon growth by TNFÎ± reverse signalling. Open Biology, 2017, 7, 160288.	1.5	13
139	Introduction to the Theme â€œIon Channels and Neuropharmacology: From the Past to the Futureâ€• Annual Review of Pharmacology and Toxicology, 2020, 60, 1-6.	4.2	13
140	Rab11-dependent recycling of calcium channels is mediated by auxiliary subunit Î±2Î´-1 but not Î±2Î´-3. Scientific Reports, 2021, 11, 10256.	1.6	13
141	Direct interaction of LSD with central â€œbetaâ€•adrenergic receptors. Life Sciences, 1978, 22, 345-352.	2.0	11
142	G protein modulation of voltage-dependent calcium channels and transmitter release. Biochemical Society Transactions, 1993, 21, 391-395.	1.6	11
143	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, 160-174.	1.8	11
144	The inhibition of functional expression of calcium channels by prion protein demonstrates competition with Î±2Î´ for GPI-anchoring pathways. Biochemical Journal, 2014, 458, 365-374.	1.7	11

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145	IgGs from patients with amyotrophic lateral sclerosis and diabetes target CaVÎ±2Î´1 subunits impairing islet cell function and survival. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26816-26822.	3.3	11
146	Behavioural and biochemical effects of chronic reduction of cerebral noradrenaline receptor stimulation. Naunyn-Schmiedeberg's Archives of Pharmacology, 1977, 299, 167-173.	1.4	10
147	Labelling of the 3D structure of the cardiac L-type voltage-gated calcium channel. Channels, 2009, 3, 387-392.	1.5	10
148	Is p21-ras a real G protein?. Trends in Neurosciences, 1988, 11, 287-291.	4.2	9
149	G-protein regulation of neuronal voltage-activated calcium currents. General Pharmacology, 1989, 20, 715-720.	0.7	9
150	Modulation of neuronal Ca2+-dependent currents by neurotransmitters, G-proteins and toxins. Biochemical Society Transactions, 1992, 20, 443-449.	1.6	8
151	Cycloheximide abolishes pertussis toxin-induced increase in glutamate release from cerebellar granule neurones. Neuroscience Letters, 1994, 166, 17-22.	1.0	8
152	Modification of the L-DOPA reversal of reserpine akinesia by inhibitors of dopamine-Î²-hydroxylase. European Journal of Pharmacology, 1976, 35, 135-144.	1.7	7
153	Modulation of Ca2+-Channel Currents in Sensory Neurons by Pertussis Toxin-Sensitive G-Proteins. Annals of the New York Academy of Sciences, 1989, 560, 387-390.	1.8	7
154	Stargazin-related protein Î³7 is associated with signalling endosomes in superior cervical ganglion neurons and modulates neurite outgrowth. Journal of Cell Science, 2011, 124, 2049-2057.	1.2	7
155	A CaV2.1 N-terminal fragment relieves the dominant-negative inhibition by an Episodic ataxia 2 mutant. Neurobiology of Disease, 2016, 93, 243-256.	2.1	7
156	Neuronal protein phosphorylation: Recent studies concerning protein I, A synapse-specific phosphoprotein. Pharmacology Biochemistry and Behavior, 1980, 13, 169-174.	1.3	4
157	Modulation of Voltageâ€Ðependent Calcium Channels in Cultured Neurons^a. Annals of the New York Academy of Sciences, 1994, 747, 325-335.	1.8	4
158	P21-ras is involved in regulation of voltage-dependent calcium channels in cultured rat dorsal root ganglion cells. Biochemical Society Transactions, 1995, 23, 193S-193S.	1.6	3
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