Gerald W. Zamponi

List of Publications by Year
in descending order

328 papers	18,741 citations	8755 75 h-index	18130 120 g-index
498 all docs	498 docs citations	498 times ranked	14787 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.	16.0	793
2	Neuronal Voltage-Gated Calcium Channels: Structure, Function, and Dysfunction. Neuron, 2014, 82, 24-45.	8.1	489
3	Crosstalk between G proteins and protein kinase C mediated by the calcium channel Î±1 subunit. Nature, 1997, 385, 442-446.	27.8	455
4	Will the real multiple sclerosis please stand up?. Nature Reviews Neuroscience, 2012, 13, 507-514.	10.2	406
5	Splicing of Î±1A subunit gene generates phenotypic variants of P- and Q-type calcium channels. Nature Neuroscience, 1999, 2, 407-415.	14.8	393
6	Regulating excitability of peripheral afferents: emerging ion channel targets. Nature Neuroscience, 2014, 17, 153-163.	14.8	361
7	Protease-activated receptor 2 sensitizes the transient receptor potential vanilloid 4 ion channel to cause mechanical hyperalgesia in mice. Journal of Physiology, 2007, 578, 715-733.	2.9	338
8	Targeting voltage-gated calcium channels in neurological and psychiatric diseases. Nature Reviews Drug Discovery, 2016, 15, 19-34.	46.4	306
9	Calcium-Permeable Ion Channels in Pain Signaling. Physiological Reviews, 2014, 94, 81-140.	28.8	249
10	Direct G Protein Modulation of Cav2 Calcium Channels. Pharmacological Reviews, 2006, 58, 837-862.	16.0	226
11	Prion protein attenuates excitotoxicity by inhibiting NMDA receptors. Journal of Cell Biology, 2008, 181, 551-565.	5.2	222
12	Role of voltage-gated calcium channels in ascending pain pathways. Brain Research Reviews, 2009, 60, 84-89.	9.0	215
13	The CavÎ² subunit prevents RFP2-mediated ubiquitination and proteasomal degradation of L-type channels. Nature Neuroscience, 2011, 14, 173-180.	14.8	213
14	AÎ² neurotoxicity depends on interactions between copper ions, prion protein, and <i>N</i> -methyl-<scp>d</scp> -aspartate receptors. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1737-1742.	7.1	209
15	The Deubiquitinating Enzyme USP5 Modulates Neuropathic and Inflammatory Pain by Enhancing Cav3.2 Channel Activity. Neuron, 2014, 83, 1144-1158.	8.1	197
16	Modulation of voltage-dependent calcium channels by G proteins. Current Opinion in Neurobiology, 1998, 8, 351-356.	4.2	195
17	Depolarization-Induced Ca2+ Release in Ischemic Spinal Cord White Matter Involves L-type Ca2+ Channel Activation of Ryanodine Receptors. Neuron, 2003, 40, 53-63.	8.1	188
18	Extended spectrum of idiopathic generalized epilepsies associated with <i>CACNA1H</i> functional variants. Annals of Neurology, 2007, 62, 560-568.	5.3	186

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19	Role of Prelimbic GABAergic Circuits in Sensory and Emotional Aspects of Neuropathic Pain. Cell Reports, 2015, 12, 752-759.	6.4	186
20	A neuronal circuit for activating descending modulation of neuropathic pain. Nature Neuroscience, 2019, 22, 1659-1668.	14.8	185
21	The CACNA1F Gene Encodes an L-Type Calcium Channel with Unique Biophysical Properties and Tissue Distribution. Journal of Neuroscience, 2004, 24, 1707-1718.	3.6	183
22	Specific T-type calcium channel isoforms are associated with distinct burst phenotypes in deep cerebellar nuclear neurons. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5555-5560.	7.1	181
23	Voltage-Gated Calcium Channels and Idiopathic Generalized Epilepsies. Physiological Reviews, 2006, 86, 941-966.	28.8	169
24	CaV3 T-type calcium channel isoforms differentially distribute to somatic and dendritic compartments in rat central neurons. European Journal of Neuroscience, 2006, 24, 2581-2594.	2.6	167
25	Regulation of CaV2 calcium channels by G protein coupled receptors. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 1629-1643.	2.6	165
26	Regulation of neuronal activity by Cav3-Kv4 channel signaling complexes. Nature Neuroscience, 2010, 13, 333-337.	14.8	162
27	Gating Effects of Mutations in the Cav3.2 T-type Calcium Channel Associated with Childhood Absence Epilepsy. Journal of Biological Chemistry, 2004, 279, 9681-9684.	3.4	155
28	Trigeminal neuralgia: An overview from pathophysiology to pharmacological treatments. Molecular Pain, 2020, 16, 174480692090189.	2.1	153
29	ORL1 receptorâ€"mediated internalization of N-type calcium channels. Nature Neuroscience, 2006, 9, 31-40.	14.8	151
30	The Î±_{1E}Calcium Channel Exhibits Permeation Properties Similar to Low-Voltage-Activated Calcium Channels. Journal of Neuroscience, 1996, 16, 4983-4993.	3.6	150
31	Role of voltage-gated calcium channels in epilepsy. Pflugers Archiv European Journal of Physiology, 2010, 460, 395-403.	2.8	149
32	Differential Role of N-Type Calcium Channel Splice Isoforms in Pain. Journal of Neuroscience, 2007, 27, 6363-6373.	3.6	147
33	Transient Receptor Potential Vanilloid-4 Has a Major Role in Visceral Hypersensitivity Symptoms. Gastroenterology, 2008, 135, 937-946.e2.	1.3	146
34	Regulation of neuronal T-type calcium channels. Trends in Pharmacological Sciences, 2009, 30, 32-40.	8.7	145
35	Targeting Ca channels to treat pain: T-type versus N-type. Trends in Pharmacological Sciences, 2004, 25, 465-470.	8.7	138
36	Interaction of SNX482 with Domains III and IV Inhibits Activation Gating of Î±1E (CaV2.3) Calcium Channels. Biophysical Journal, 2001, 81, 79-88.	0.5	136

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37	Interactions between presynaptic Ca2+ channels, cytoplasmic messengers and proteins of the synaptic vesicle release complex. Trends in Pharmacological Sciences, 2001, 22, 519-525.	8.7	132
38	Potentiation of TRPV4 signalling by histamine and serotonin: an important mechanism for visceral hypersensitivity. Gut, 2010, 59, 481-488.	12.1	130
39	Blocking microglial pannexin-1 channels alleviates morphine withdrawal in rodents. Nature Medicine, 2017, 23, 355-360.	30.7	130
40	Agonist-independent modulation of N-type calcium channels by ORL1 receptors. Nature Neuroscience, 2004, 7, 118-125.	14.8	128
41	Presynaptic Ca2+ channels â€“ integration centers for neuronal signaling pathways. Trends in Neurosciences, 2006, 29, 617-624.	8.6	128
42	G Protein Modulation of N-type Calcium Channels Is Facilitated by Physical Interactions between Syntaxin 1A and GÎ²Î³. Journal of Biological Chemistry, 2000, 275, 6388-6394.	3.4	126
43	Identification of an Integration Center for Cross-talk between Protein Kinase C and G Protein Modulation of N-type Calcium Channels. Journal of Biological Chemistry, 1999, 274, 6195-6202.	3.4	120
44	Expression of voltage-gated Ca2+ channel subtypes in cultured astrocytes. Glia, 2003, 41, 347-353.	4.9	119
45	Integrin Receptor Activation Triggers Converging Regulation of Cav1.2 Calcium Channels by c-Src and Protein Kinase A Pathways. Journal of Biological Chemistry, 2006, 281, 14015-14025.	3.4	119
46	Trafficking of L-type Calcium Channels Mediated by the Postsynaptic Scaffolding Protein AKAP79. Journal of Biological Chemistry, 2002, 277, 33598-33603.	3.4	118
47	Auxiliary subunit regulation of high-voltage activated calcium channels expressed in mammalian cells. European Journal of Neuroscience, 2004, 20, 1-13.	2.6	117
48	Cysteine String Protein Regulates G Protein Modulation of N-Type Calcium Channels. Neuron, 2000, 28, 195-204.	8.1	114
49	Effects of Cav3.2 channel mutations linked to idiopathic generalized epilepsy. Annals of Neurology, 2005, 57, 745-749.	5.3	110
50	A Cav3.2/Syntaxin-1A Signaling Complex Controls T-type Channel Activity and Low-threshold Exocytosis. Journal of Biological Chemistry, 2012, 287, 2810-2818.	3.4	110
51	Functional interactions between presynaptic calcium channels and the neurotransmitter release machinery. Current Opinion in Neurobiology, 2003, 13, 308-314.	4.2	108
52	Binding of Protein Phosphatase 2A to the L-Type Calcium Channel Cav1.2 next to Ser1928, Its Main PKA Site, Is Critical for Ser1928 Dephosphorylation. Biochemistry, 2006, 45, 3448-3459.	2.5	106
53	Functional roles of cytoplasmic loops and pore lining transmembrane helices in the voltage-dependent inactivation of HVA calcium channels. Journal of Physiology, 2004, 554, 263-273.	2.9	101
54	D1 Receptors Physically Interact with N-Type Calcium Channels to Regulate Channel Distribution and Dendritic Calcium Entry. Neuron, 2008, 58, 557-570.	8.1	101

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55	Glutamate receptors on myelinated spinal cord axons: I. GluR6 kainate receptors. Annals of Neurology, 2009, 65, 151-159.	5.3	100
56	Interactions between a Pore-Blocking Peptide and the Voltage Sensor of the Sodium Channel: An Electrostatic Approach to Channel Geometry. Neuron, 1996, 16, 407-413.	8.1	98
57	Distinct Molecular Determinants Govern Syntaxin 1A-Mediated Inactivation and G-Protein Inhibition of N-Type Calcium Channels. Journal of Neuroscience, 2001, 21, 2939-2948.	3.6	97
58	Regulation of Presynaptic Calcium Channels by Synaptic Proteins. Journal of Pharmacological Sciences, 2003, 92, 79-83.	2.5	97
59	Glutamate receptors on myelinated spinal cord axons: II. AMPA and GluR5 receptors. Annals of Neurology, 2009, 65, 160-166.	5.3	97
60	Recent advances in the development of Tâ€type calcium channel blockers for pain intervention. British Journal of Pharmacology, 2018, 175, 2375-2383.	5.4	93
61	Fast Inactivation of Voltage-dependent Calcium Channels. Journal of Biological Chemistry, 2000, 275, 24575-24582.	3.4	92
62	Surface expression and function of Cav3.2ÂT-type calcium channels are controlled by asparagine-linked glycosylation. Pflugers Archiv European Journal of Physiology, 2013, 465, 1159-1170.	2.8	92
63	Copperâ€dependent regulation of NMDA receptors by cellular prion protein: implications for neurodegenerative disorders. Journal of Physiology, 2012, 590, 1357-1368.	2.9	91
64	Molecular Determinants of Syntaxin 1 Modulation of N-type Calcium Channels. Journal of Biological Chemistry, 2002, 277, 44399-44407.	3.4	89
65	Synthesis and Evaluation of a New Class of Nifedipine Analogs with T-Type Calcium Channel Blocking Activity. Molecular Pharmacology, 2002, 61, 649-658.	2.3	88
66	Calcium Channel Structural Determinants of Synaptic Transmission between Identified Invertebrate Neurons. Journal of Biological Chemistry, 2003, 278, 4258-4267.	3.4	88
67	Residue Gly1326 of the N-type Calcium Channel Î±1B Subunit Controls Reversibility of Ï‰-Conotoxin GVIA and MVIIA Block. Journal of Biological Chemistry, 2001, 276, 15728-15735.	3.4	87
68	De Novo Pathogenic Variants in CACNA1E Cause Developmental and Epileptic Encephalopathy with Contractures, Macrocephaly, and Dyskinesias. American Journal of Human Genetics, 2018, 103, 666-678.	6.2	87
69	Determinants of Inhibition of Transiently Expressed Voltage-gated Calcium Channels by Ï‰-Conotoxins GVIA and MVIIA. Journal of Biological Chemistry, 2003, 278, 20171-20178.	3.4	86
70	Excitatory Glycine Responses of CNS Myelin Mediated by NR1/NR3 â€œNMDAâ€• Receptor Subunits. Journal of Neuroscience, 2010, 30, 11501-11505.	3.6	86
71	Intermediate conductance calcium-activated potassium channels modulate summation of parallel fiber input in cerebellar Purkinje cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2601-2606.	7.1	85
72	Regulation of T-type calcium channels by Rho-associated kinase. Nature Neuroscience, 2007, 10, 854-860.	14.8	84

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73	Expression of T-type calcium channel splice variants in human glioma. Glia, 2004, 48, 112-119.	4.9	83
74	Mercury-induced toxicity of rat cortical neurons is mediated through N-methyl-D-Aspartate receptors. Molecular Brain, 2012, 5, 30.	2.6	82
75	Topiramate Inhibits the Initiation of Plateau Potentials in CA1 Neurons by Depressing R-type Calcium Channels. Epilepsia, 2005, 46, 481-489.	5.1	81
76	Neuroprotection against Traumatic Brain Injury by a Peptide Derived from the Collapsin Response Mediator Protein 2 (CRMP2). Journal of Biological Chemistry, 2011, 286, 37778-37792.	3.4	78
77	Heterodimerization of ORL1 and Opioid Receptors and Its Consequences for N-type Calcium Channel Regulation. Journal of Biological Chemistry, 2010, 285, 1032-1040.	3.4	77
78	The Î±2Î´ Auxiliary Subunit Reduces Affinity of Ï‰-Conotoxins for Recombinant N-type (Cav2.2) Calcium Channels. Journal of Biological Chemistry, 2004, 279, 34705-34714.	3.4	74
79	Microglial pannexin-1 channel activation is a spinal determinant of joint pain. Science Advances, 2018, 4, eaas9846.	10.3	73
80	T-type calcium channels: From molecule to therapeutic opportunities. International Journal of Biochemistry and Cell Biology, 2019, 108, 34-39.	2.8	73
81	Identification and Characterization of Novel Human Cav2.2 (Î±1B) Calcium Channel Variants Lacking the Synaptic Protein Interaction Site. Journal of Neuroscience, 2002, 22, 82-92.	3.6	70
82	Trafficking and regulation of neuronal voltage-gated calcium channels. Current Opinion in Cell Biology, 2007, 19, 474-482.	5.4	69
83	Trafficking and stability of voltage-gated calcium channels. Cellular and Molecular Life Sciences, 2012, 69, 843-856.	5.4	69
84	Small Organic Molecule Disruptors of Cav3.2 - USP5 Interactions Reverse Inflammatory and Neuropathic Pain. Molecular Pain, 2015, 11, s12990-015-0011.	2.1	69
85	Molecular Pharmacology of High Voltage-Activated Calcium Channels. Journal of Bioenergetics and Biomembranes, 2003, 35, 491-505.	2.3	65
86	Functional Analysis of Cav3.2 T-type Calcium Channel Mutations Linked to Childhood Absence Epilepsy. Epilepsia, 2006, 47, 655-658.	5.1	64
87	Scaffold-based design and synthesis of potent N-type calcium channel blockers. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6467-6472.	2.2	64
88	IKCa Channels Are a Critical Determinant of the Slow AHP in CA1 Pyramidal Neurons. Cell Reports, 2015, 11, 175-182.	6.4	64
89	Unique Structureâ^'Activity Relationship for 4-Isoxazolyl-1,4-dihydropyridines. Journal of Medicinal Chemistry, 2003, 46, 87-96.	6.4	62
90	Anticonvulsant mechanisms of piperine, a piperidine alkaloid. Channels, 2015, 9, 317-323.	2.8	62

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91	Differential modulation of Nâ€type Î± 1B and P/Qâ€type Î± 1A calcium channels by different G protein Î² subunit isoforms. Journal of Physiology, 2000, 527, 203-212.	2.9	61
92	Scanning Mutagenesis of Ï‰-Atracotoxin-Hv1a Reveals a Spatially Restricted Epitope That Confers Selective Activity against Insect Calcium Channels. Journal of Biological Chemistry, 2004, 279, 44133-44140.	3.4	61
93	Cross-talk between G-protein and Protein Kinase C Modulation of N-type Calcium Channels Is Dependent on the G-protein Î² Subunit Isoform. Journal of Biological Chemistry, 2000, 275, 40777-40781.	3.4	59
94	A novel slow-inactivation-specific ion channel modulator attenuates neuropathic pain. Pain, 2011, 152, 833-843.	4.2	59
95	Glutamate receptors function as scaffolds for the regulation of Î²-amyloid and cellular prion protein signaling complexes. Molecular Brain, 2015, 8, 18.	2.6	59
96	Calcium Channel Î² Subunits Differentially Regulate the Inhibition of N-type Channels by Individual GÎ² Isoforms. Journal of Biological Chemistry, 2001, 276, 45051-45058.	3.4	56
97	Block of voltage-gated calcium channels by peptide toxins. Neuropharmacology, 2017, 127, 109-115.	4.1	55
98	Cellular prion protein and NMDA receptor modulation: protecting against excitotoxicity. Frontiers in Cell and Developmental Biology, 2014, 2, 45.	3.7	54
99	Possible role of trace elements in epilepsy and febrile seizures: a meta-analysis. Nutrition Reviews, 2015, 73, 760-779.	5.8	54
100	T-Type Calcium Channel Î±1G and Î±1H Subunits in Human Retinoblastoma Cells and Their Loss After Differentiation. Journal of Neurophysiology, 2002, 88, 196-205.	1.8	53
101	Control of low-threshold exocytosis by T-type calcium channels. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 1579-1586.	2.6	53
102	Synthesis and Evaluation of 1,4-Dihydropyridine Derivatives with Calcium Channel Blocking Activity. Pflugers Archiv European Journal of Physiology, 2014, 466, 1355-1363.	2.8	53
103	Identification of Inactivation Determinants in the Domain IIS6 Region of High Voltage-activated Calcium Channels. Journal of Biological Chemistry, 2001, 276, 33001-33010.	3.4	52
104	Syntaxin 1A Supports Voltage-Dependent Inhibition of Î±1BCa2+Channels by GÎ²Î³ in Chick Sensory Neurons. Journal of Neuroscience, 2001, 21, 2949-2957.	3.6	51
105	Glycerotoxin from Glycera convoluta stimulates neurosecretion by up-regulating N-type Ca2+ channel activity. EMBO Journal, 2002, 21, 6733-6743.	7.8	51
106	Masters or slaves? Vesicle release machinery and the regulation of presynaptic calcium channels. Cell Calcium, 2005, 37, 483-488.	2.4	51
107	D2 dopamine receptors interact directly with N-type calcium channels and regulate channel surface expression levels. Channels, 2008, 2, 269-277.	2.8	51
108	Genetic T-type calcium channelopathies. Journal of Medical Genetics, 2020, 57, 1-10.	3.2	50

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109	Role of the synprint site in presynaptic targeting of the calcium channel Ca V 2.2 in hippocampal neurons. European Journal of Neuroscience, 2006, 24, 709-718.	2.6	49
110	Crosstalk between huntingtin and syntaxin 1A regulates N-type calcium channels. Molecular and Cellular Neurosciences, 2005, 30, 339-351.	2.2	48
111	Low Voltage Activation of KCa1.1 Current by Cav3-KCa1.1 Complexes. PLoS ONE, 2013, 8, e61844.	2.5	48
112	Selective inhibition of Ca _V 3.2 channels reverses hyperexcitability of peripheral nociceptors and alleviates postsurgical pain. Science Signaling, 2018, 11, .	3.6	48
113	Modulation of Neuronal Voltage-gated Calcium Channels by Farnesol. Journal of Biological Chemistry, 1999, 274, 25439-25446.	3.4	47
114	Calcium-triggered Membrane Fusion Proceeds Independently of Specific Presynaptic Proteins. Journal of Biological Chemistry, 2003, 278, 24251-24254.	3.4	47
115	Dopamine Inputs from the Ventral Tegmental Area into the Medial Prefrontal Cortex Modulate Neuropathic Pain-Associated Behaviors in Mice. Cell Reports, 2020, 31, 107812.	6.4	47
116	Determinants of G Protein Inhibition of Presynaptic Calcium Channels. Cell Biochemistry and Biophysics, 2001, 34, 79-84.	1.8	46
117	Kainate receptor activation induces glycine receptor endocytosis through PKC deSUMOylation. Nature Communications, 2014, 5, 4980.	12.8	46
118	Antagonist binding sites of voltage-dependent calcium channels. Drug Development Research, 1997, 42, 131-143.	2.9	45
119	Amino Acid Residues Outside of the Pore Region Contribute to N-type Calcium Channel Permeation. Journal of Biological Chemistry, 2001, 276, 5726-5730.	3.4	45
120	Cysteine String Protein (CSP) Inhibition of N-type Calcium Channels Is Blocked by Mutant Huntingtin. Journal of Biological Chemistry, 2003, 278, 53072-53081.	3.4	45
121	BK Potassium Channels Suppress CavÎ±2Î´ Subunit Function to Reduce Inflammatory and Neuropathic Pain. Cell Reports, 2018, 22, 1956-1964.	6.4	45
122	Junctophilin Proteins Tether a Cav1-RyR2-KCa3.1 Tripartite Complex to Regulate Neuronal Excitability. Cell Reports, 2019, 28, 2427-2442.e6.	6.4	45
123	Cav3.2 T-type calcium channels shape electrical firing in mouse Lamina II neurons. Scientific Reports, 2019, 9, 3112.	3.3	45
124	Voltage Gated Calcium Channels as Targets for Analgesics. Current Topics in Medicinal Chemistry, 2005, 5, 539-546.	2.1	44
125	The Ca_v3â€“K_v4 Complex Acts as a Calcium Sensor to Maintain Inhibitory Charge Transfer during Extracellular Calcium Fluctuations. Journal of Neuroscience, 2013, 33, 7811-7824.	3.6	44
126	A Membrane Potential- and Calpain-Dependent Reversal of Caspase-1 Inhibition Regulates Canonical NLRP3 Inflammasome. Cell Reports, 2018, 24, 2356-2369.e5.	6.4	44

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127	Betulinic acid, derived from the desert lavender Hyptis emoryi, attenuates paclitaxel-, HIV-, and nerve injuryâ€“associated peripheral sensory neuropathy via block of N- and T-type calcium channels. Pain, 2019, 160, 117-135.	4.2	44
128	Structureâ€“activity relationships of diphenylpiperazine N-type calcium channel inhibitors. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 1378-1383.	2.2	43
129	RIM1/2-Mediated Facilitation of Cav1.4 Channel Opening Is Required for Ca²⁺-Stimulated Release in Mouse Rod Photoreceptors. Journal of Neuroscience, 2015, 35, 13133-13147.	3.6	43
130	Selective Inhibition of Cav3.3 T-type Calcium Channels by GÎ±q/11-coupled Muscarinic Acetylcholine Receptors. Journal of Biological Chemistry, 2007, 282, 21043-21055.	3.4	42
131	Characterization of Novel Cannabinoid Based T-Type Calcium Channel Blockers with Analgesic Effects. ACS Chemical Neuroscience, 2015, 6, 277-287.	3.5	42
132	Protein interactome mining defines melatonin <scp>MT</scp>₁ receptors as integral component of presynaptic protein complexes of neurons. Journal of Pineal Research, 2016, 60, 95-108.	7.4	42
133	Depressive-like behaviour of mice lacking cellular prion protein. Behavioural Brain Research, 2012, 227, 319-323.	2.2	40
134	1,4-Dihydropyridine derivatives with T-type calcium channel blocking activity attenuate inflammatory and neuropathic pain. Pflugers Archiv European Journal of Physiology, 2015, 467, 1237-1247.	2.8	40
135	Multiple Structural Domains Contribute to Voltage-dependent Inactivation of Rat Brain Î±1E Calcium Channels. Journal of Biological Chemistry, 1999, 274, 22428-22436.	3.4	39
136	Molecular determinants of cysteine string protein modulation of N-type calcium channels. Journal of Cell Science, 2003, 116, 2967-2974.	2.0	39
137	A cell-permeant peptide corresponding to the cUBP domain of USP5 reverses inflammatory and neuropathic pain. Molecular Pain, 2016, 12, 174480691664244.	2.1	39
138	Identification of interleukin-1 beta as a key mediator in the upregulation of Cav3.2â€“USP5 interactions in the pain pathway. Molecular Pain, 2017, 13, 174480691772469.	2.1	39
139	Inhibition of Neuronal Calcium Channels by a Novel Peptide Spider Toxin, DW13.3. Molecular Pharmacology, 1998, 54, 407-418.	2.3	38
140	Signaling complexes of voltage-gated calcium channels. Channels, 2011, 5, 440-448.	2.8	38
141	Regulation of the K_V4.2 complex by Ca_V3.1 calcium channels. Channels, 2010, 4, 163-167.	2.8	37
142	Block of T-type calcium channels by protoxins I and II. Molecular Brain, 2014, 7, 36.	2.6	37
143	In Vitro Characterization of L-Type Calcium Channels and Their Contribution to Firing Behavior in Invertebrate Respiratory Neurons. Journal of Neurophysiology, 2006, 95, 42-52.	1.8	36
144	Analgesic Effect of a Mixed T-Type Channel Inhibitor/CB₂ Receptor Agonist. Molecular Pain, 2013, 9, 1744-8069-9-32.	2.1	36

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145	T-type channels buddy up. Pflugers Archiv European Journal of Physiology, 2014, 466, 661-675.	2.8	35
146	Neuronal expression of the intermediate conductance calcium-activated potassium channel KCa3.1 in the mammalian central nervous system. Pflugers Archiv European Journal of Physiology, 2015, 467, 311-328.	2.8	35
147	The Cacna1h mutation in the GAERS model of absence epilepsy enhances T-type Ca2+ currents by altering calnexin-dependent trafficking of Cav3.2 channels. Scientific Reports, 2017, 7, 11513.	3.3	35
148	Regulation of voltage gated calcium channels by GPCRs and post-translational modification. Current Opinion in Pharmacology, 2017, 32, 1-8.	3.5	35
149	Binding mechanism investigations guiding the synthesis of novel condensed 1,4-dihydropyridine derivatives with L-/T-type calcium channel blocking activity. European Journal of Medicinal Chemistry, 2018, 155, 1-12.	5.5	34
150	Expression and Modulation of an Invertebrate Presynaptic Calcium Channel Î±1 Subunit Homolog. Journal of Biological Chemistry, 2003, 278, 21178-21187.	3.4	33
151	Cav1.4 Encodes a Calcium Channel with Low Open Probability and Unitary Conductance. Biophysical Journal, 2005, 89, 3042-3048.	0.5	33
152	Analgesic effect of a broad-spectrum dihydropyridine inhibitor of voltage-gated calcium channels. Pflugers Archiv European Journal of Physiology, 2015, 467, 2485-2493.	2.8	33
153	The Third Intracellular Loop Stabilizes the Inactive State of the Neuropeptide Y1 Receptor. Journal of Biological Chemistry, 2008, 283, 33337-33346.	3.4	32
154	NMP-7 Inhibits Chronic Inflammatory and Neuropathic Pain via Block of Cav3.2 T-type Calcium Channels and Activation of CB2 Receptors. Molecular Pain, 2014, 10, 1744-8069-10-77.	2.1	32
155	Signaling Complexes of Voltage-Gated Calcium Channels and G Protein-Coupled Receptors. Journal of Receptor and Signal Transduction Research, 2008, 28, 71-81.	2.5	31
156	Regulation of calcium channels by RGK proteins. Channels, 2010, 4, 434-439.	2.8	31
157	Functional Characterization and Analgesic Effects of Mixed Cannabinoid Receptor/T-Type Channel Ligands. Molecular Pain, 2011, 7, 1744-8069-7-89.	2.1	31
158	T-type calcium channels functionally interact with spectrin (Î±/Î²) and ankyrin B. Molecular Brain, 2018, 11, 24.	2.6	31
159	A Single GÎ² Subunit Locus Controls Cross-talk between Protein Kinase C and G Protein Regulation of N-type Calcium Channels. Journal of Biological Chemistry, 2004, 279, 29709-29717.	3.4	30
160	Spatial association of the Cav1.2 calcium channel with Î±₅Î²₁-integrin. American Journal of Physiology - Cell Physiology, 2011, 300, C477-C489.	4.6	30
161	Disruption of NMDARâ€“CRMP-2 signaling protects against focal cerebral ischemic damage in the rat middle cerebral artery occlusion model. Channels, 2012, 6, 52-59.	2.8	30
162	Activity-Dependent Facilitation of Ca_V1.3 Calcium Channels Promotes KCa3.1 Activation in Hippocampal Neurons. Journal of Neuroscience, 2017, 37, 11255-11270.	3.6	30

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163	Hyperactivity of Innate Immunity Triggers Pain via TLR2-IL-33-Mediated Neuroimmune Crosstalk. Cell Reports, 2020, 33, 108233.	6.4	29
164	Prion protein attenuates excitotoxicity by inhibiting NMDA receptors. Journal of General Physiology, 2008, 131, i5-i5.	1.9	29
165	Presynaptic Calcium Channels: Structure, Regulators, and Blockers. Handbook of Experimental Pharmacology, 2008, , 45-75.	1.8	28
166	Common Mechanisms of Drug Interactions with Sodium and T-Type Calcium Channels. Molecular Pharmacology, 2012, 82, 481-487.	2.3	28
167	The Expression Pattern of a Cav3-Kv4 Complex Differentially Regulates Spike Output in Cerebellar Granule Cells. Journal of Neuroscience, 2014, 34, 8800-8812.	3.6	28
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