

# Terrance P Snutch

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/87121/publications.pdf>

Version: 2024-02-01

164  
papers

19,928  
citations

13854

67  
h-index

11601

135  
g-index

171  
all docs

171  
docs citations

171  
times ranked

15553  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanopore sequencing and assembly of a human genome with ultra-long reads. <i>Nature Biotechnology</i> , 2018, 36, 338-345.	9.4	1,443
2	International Union of Pharmacology. XLVIII. Nomenclature and Structure-Function Relationships of Voltage-Gated Calcium Channels. <i>Pharmacological Reviews</i> , 2005, 57, 411-425.	7.1	1,110
3	Nomenclature of Voltage-Gated Calcium Channels. <i>Neuron</i> , 2000, 25, 533-535.	3.8	868
4	Identification and differential subcellular localization of the neuronal class C and class D L-type calcium channel alpha 1 subunits. <i>Journal of Cell Biology</i> , 1993, 123, 949-962.	2.3	706
5	Calcium channel $\beta$ -subunit binds to a conserved motif in the $\alpha$ 1 cytoplasmic linker of the $\alpha$ 1-subunit. <i>Nature</i> , 1994, 368, 67-70.	13.7	626
6	Biochemical properties and subcellular distribution of an N-type calcium channel $\alpha$ 1 subunit. <i>Neuron</i> , 1992, 9, 1099-1115.	3.8	592
7	Structure and functional expression of a member of the low voltage-activated calcium channel family. <i>Science</i> , 1993, 260, 1133-1136.	6.0	558
8	Crosstalk between G proteins and protein kinase C mediated by the calcium channel $\alpha$ 1 subunit. <i>Nature</i> , 1997, 385, 442-446.	13.7	455
9	Nanopore native RNA sequencing of a human poly(A) transcriptome. <i>Nature Methods</i> , 2019, 16, 1297-1305.	9.0	411
10	Silencing of the Cav3.2 T-type calcium channel gene in sensory neurons demonstrates its major role in nociception. <i>EMBO Journal</i> , 2005, 24, 315-324.	3.5	388
11	Distinct calcium channels are generated by alternative splicing and are differentially expressed in the mammalian CNS. <i>Neuron</i> , 1991, 7, 45-57.	3.8	372
12	Localization and functional properties of a rat brain alpha 1A calcium channel reflect similarities to neuronal Q- and P-type channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 10576-10580.	3.3	336
13	The naming of voltage-gated calcium channels. <i>Neuron</i> , 1994, 13, 505-506.	3.8	331
14	Molecular cloning of the alpha-1 subunit of an omega-conotoxin-sensitive calcium channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 5058-5062.	3.3	305
15	Isoform-specific interaction of the alpha1A subunits of brain Ca <sup>2+</sup> channels with the presynaptic proteins syntaxin and SNAP-25. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 7363-7368.	3.3	283
16	Primary structure of a calcium channel that is highly expressed in the rat cerebellum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 5621-5625.	3.3	274
17	Essential Ca <sup>2+</sup> -Binding Motif for Ca <sup>2+</sup> -Sensitive Inactivation of L-Type Ca <sup>2+</sup> Channels. <i>Science</i> , 1995, 270, 1502-1506.	6.0	272
18	Rat brain expresses a heterogeneous family of calcium channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990, 87, 3391-3395.	3.3	265

#	ARTICLE	IF	CITATIONS
19	Determinants of the G protein-dependent opioid modulation of neuronal calcium channels.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 1486-1491.	3.3	250
20	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Ion channels. British Journal of Pharmacology, 2019, 176, S142-S228.	2.7	242
21	Molecular and Functional Characterization of a Family of Rat Brain T-type Calcium Channels. Journal of Biological Chemistry, 2001, 276, 3999-4011.	1.6	227
22	Determinants of PKC-dependent modulation of a family of neuronal calcium channels. Neuron, 1995, 15, 929-940.	3.8	225
23	International Union of Pharmacology. XL. Compendium of Voltage-Gated Ion Channels: Calcium Channels. Pharmacological Reviews, 2003, 55, 579-581.	7.1	221
24	Role of voltage-gated calcium channels in ascending pain pathways. Brain Research Reviews, 2009, 60, 84-89.	9.1	215
25	Messenger RNA coding for only the alpha subunit of the rat brain Na channel is sufficient for expression of functional channels in Xenopus oocytes.. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 7503-7507.	3.3	202
26	The Cellular Mechanisms of Neuronal Swelling Underlying Cytotoxic Edema. Cell, 2015, 161, 610-621.	13.5	197
27	Targeting chronic and neuropathic pain: The N-type calcium channel comes of age. NeuroRx, 2005, 2, 662-670.	6.0	196
28	Modulation of voltage-dependent calcium channels by G proteins. Current Opinion in Neurobiology, 1998, 8, 351-356.	2.0	195
29	cDNA cloning of a serotonin 5-HT1C receptor by electrophysiological assays of mRNA-injected Xenopus oocytes.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 4332-4336.	3.3	190
30	Nickel Block of a Family of Neuronal Calcium Channels: Subtype- and Subunit-Dependent Action at Multiple Sites. Journal of Membrane Biology, 1996, 151, 77-90.	1.0	188
31	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Ion channels. British Journal of Pharmacology, 2021, 178, S157-S245.	2.7	187
32	The CACNA1F Gene Encodes an L-Type Calcium Channel with Unique Biophysical Properties and Tissue Distribution. Journal of Neuroscience, 2004, 24, 1707-1718.	1.7	183
33	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.	3.3	181
34	Expression and modulation of voltage-gated calcium channels after RNA injection in Xenopus oocytes. Science, 1986, 231, 1147-1150.	6.0	174
35	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.	1.2	167
36	Differential Inhibition of T-Type Calcium Channels by Neuroleptics. Journal of Neuroscience, 2002, 22, 396-403.	1.7	165

#	ARTICLE	IF	CITATIONS
37	A Ca <sub>v</sub> 3.2 T-Type Calcium Channel Point Mutation Has Splice-Variant-Specific Effects on Function and Segregates with Seizure Expression in a Polygenic Rat Model of Absence Epilepsy. <i>Journal of Neuroscience</i> , 2009, 29, 371-380.	1.7	164
38	Functional properties of a neuronal class C L-type calcium channel. <i>Neuropharmacology</i> , 1993, 32, 1117-1126.	2.0	160
39	T-Type Calcium Channel Blockers That Attenuate Thalamic Burst Firing and Suppress Absence Seizures. <i>Science Translational Medicine</i> , 2012, 4, 121ra19.	5.8	156
40	Gating Effects of Mutations in the Cav3.2 T-type Calcium Channel Associated with Childhood Absence Epilepsy. <i>Journal of Biological Chemistry</i> , 2004, 279, 9681-9684.	1.6	155
41	Contributions of T-type calcium channel isoforms to neuronal firing. <i>Channels</i> , 2010, 4, 475-482.	1.5	155
42	The transient receptor potential channel antagonist SKF96365 is a potent blocker of low-voltage-activated T-type calcium channels. <i>British Journal of Pharmacology</i> , 2010, 160, 1464-1475.	2.7	152
43	P/Q-type calcium channels mediate the activity-dependent feedback of syntaxin-1A. <i>Nature</i> , 1999, 401, 800-804.	13.7	142
44	The use of <i>Xenopus</i> oocytes to probe synaptic communication. <i>Trends in Neurosciences</i> , 1988, 11, 250-256.	4.2	140
45	MinION-based long-read sequencing and assembly extends the <i>Caenorhabditis elegans</i> reference genome. <i>Genome Research</i> , 2018, 28, 266-274.	2.4	132
46	A $\beta$ -subunit normalizes the electrophysiological properties of a cloned N-type CA2+ channel $\alpha$ 1-subunit. <i>Neuropharmacology</i> , 1993, 32, 1103-1116.	2.0	130
47	T-type calcium channels contribute to colonic hypersensitivity in a rat model of irritable bowel syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11268-11273.	3.3	129
48	Decay of prepulse facilitation of N type calcium channels during G protein inhibition is consistent with binding of a single $\alpha$ subunit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 4035-4039.	3.3	124
49	Molecular Mechanisms of Subtype-Specific Inhibition of Neuronal T-Type Calcium Channels by Ascorbate. <i>Journal of Neuroscience</i> , 2007, 27, 12577-12583.	1.7	121
50	Elementary events underlying voltage-dependent G-protein inhibition of N-type calcium channels. <i>Biophysical Journal</i> , 1996, 71, 2509-2521.	0.2	120
51	Identification of an Integration Center for Cross-talk between Protein Kinase C and G Protein Modulation of N-type Calcium Channels. <i>Journal of Biological Chemistry</i> , 1999, 274, 6195-6202.	1.6	120
52	T-type calcium channels in burst-firing, network synchrony, and epilepsy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1572-1578.	1.4	118
53	Effects of Cav3.2 channel mutations linked to idiopathic generalized epilepsy. <i>Annals of Neurology</i> , 2005, 57, 745-749.	2.8	110
54	Inhibition of High Voltage-Activated Calcium Channels by Spider Toxin PnTx3-6. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005, 314, 1370-1377.	1.3	102

#	ARTICLE	IF	CITATIONS
55	A Putative Cation Channel and Its Novel Regulator: Cross-Species Conservation of Effects on General Anesthesia. <i>Current Biology</i> , 2007, 17, 624-629.	1.8	101
56	Functional Coupling between mGluR1 and Ca <sub>v</sub> 3.1 T-Type Calcium Channels Contributes to Parallel Fiber-Induced Fast Calcium Signaling within Purkinje Cell Dendritic Spines. <i>Journal of Neuroscience</i> , 2009, 29, 9668-9682.	1.7	93
57	Recent advances in the development of T-type calcium channel blockers for pain intervention. <i>British Journal of Pharmacology</i> , 2018, 175, 2375-2383.	2.7	93
58	The <i>Caenorhabditis elegans</i> hsp70 gene family: a molecular genetic characterization. <i>Gene</i> , 1988, 64, 241-255.	1.0	92
59	Analgesic Effects of a Substituted <i>N</i> -Triazole Oxindole (TROX-1), a State-Dependent, Voltage-Gated Calcium Channel 2 Blocker. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 334, 545-555.	1.3	91
60	UNC-80 and the NCA Ion Channels Contribute to Endocytosis Defects in Synaptojanin Mutants. <i>Current Biology</i> , 2007, 17, 1595-1600.	1.8	90
61	Residue Gly1326 of the N-type Calcium Channel $\alpha_1B$ Subunit Controls Reversibility of $\omega$ -Conotoxin GVIA and MVIIA Block. <i>Journal of Biological Chemistry</i> , 2001, 276, 15728-15735.	1.6	87
62	Alterations in the pattern of gene expression following heat shock in the nematode <i>Caenorhabditis elegans</i> . <i>Canadian Journal of Biochemistry and Cell Biology</i> , 1983, 61, 480-487.	1.3	81
63	A New $\alpha_2$ Subtype-specific Interaction in $\alpha_1A$ Subunit Controls P/Q-type Ca <sup>2+</sup> Channel Activation. <i>Journal of Biological Chemistry</i> , 1999, 274, 12383-12390.	1.6	79
64	Brainstem spreading depolarization and cortical dynamics during fatal seizures in <i>Cacna1a</i> <sup>S218L</sup> mice. <i>Brain</i> , 2019, 142, 412-425.	3.7	79
65	Functional implications of a novel EA2 mutation in the P/Q-type calcium channel. <i>Annals of Neurology</i> , 2004, 56, 213-220.	2.8	72
66	Molecular Diversity of Neuronal-Type Calcium Channels Identified in Small Cell Lung Carcinoma. <i>Mayo Clinic Proceedings</i> , 1992, 67, 1150-1159.	1.4	71
67	Mammalian Voltage-Gated Calcium Channels Are Potently Blocked by the Pyrethroid Insecticide Allethrin. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004, 308, 805-813.	1.3	71
68	The mouse 5-HT1C receptor contains eight hydrophobic domains and is X-linked. <i>Molecular Brain Research</i> , 1991, 11, 143-149.	2.5	69
69	The <i>C. elegans</i> T-type calcium channel CCA-1 boosts neuromuscular transmission. <i>Journal of Experimental Biology</i> , 2005, 208, 2191-2203.	0.8	68
70	Low threshold T-type calcium channels as targets for novel epilepsy treatments. <i>British Journal of Clinical Pharmacology</i> , 2014, 77, 729-739.	1.1	67
71	Ca <sub>v</sub> 2.1 P/Q-type calcium channel alternative splicing affects the functional impact of familial hemiplegic migraine mutations: Implications for calcium channelopathies. <i>Channels</i> , 2009, 3, 110-121.	1.5	66
72	Isolation of the closed circular form of the transposable element Tc1 in <i>Caenorhabditis elegans</i> . <i>Nature</i> , 1984, 311, 485-486.	13.7	65

#	ARTICLE	IF	CITATIONS
73	Determinants of voltage-dependent inactivation affect Mibefradil block of calcium channels. <i>Neuropharmacology</i> , 2000, 39, 1-10.	2.0	65
74	Voltage-gated calcium channels and disease. <i>BioFactors</i> , 2011, 37, 197-205.	2.6	65
75	Critical Residues of the <i>Caenorhabditis elegans</i> unc-2 Voltage-Gated Calcium Channel That Affect Behavioral and Physiological Properties. <i>Journal of Neuroscience</i> , 2003, 23, 6537-6545.	1.7	64
76	Functional Analysis of Cav3.2 T-type Calcium Channel Mutations Linked to Childhood Absence Epilepsy. <i>Epilepsia</i> , 2006, 47, 655-658.	2.6	64
77	Scaffold-based design and synthesis of potent N-type calcium channel blockers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 6467-6472.	1.0	64
78	Contribution of calcium-dependent facilitation to synaptic plasticity revealed by migraine mutations in the P/Q-type calcium channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18694-18699.	3.3	64
79	Temperature dependence of T-type calcium channel gating. <i>Neuroscience</i> , 2006, 142, 1031-1042.	1.1	63
80	Activation of Corticotropin-Releasing Factor Receptor 1 Selectively Inhibits Ca <sub>v</sub> 3.2 T-Type Calcium Channels. <i>Molecular Pharmacology</i> , 2008, 73, 1596-1609.	1.0	62
81	Peripheral pain is enhanced by insulin-like growth factor 1 through a G protein-mediated stimulation of T-type calcium channels. <i>Science Signaling</i> , 2014, 7, ra94.	1.6	62
82	A novel slow-inactivation-specific ion channel modulator attenuates neuropathic pain. <i>Pain</i> , 2011, 152, 833-843.	2.0	59
83	Characterization of the Substituted N-Triazole Oxindole TROX-1, a Small-Molecule, State-Dependent Inhibitor of Cav2 Calcium Channels. <i>Molecular Pharmacology</i> , 2012, 81, 488-497.	1.0	58
84	In vivo imaging reveals that pregabalin inhibits cortical spreading depression and propagation to subcortical brain structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2401-2406.	3.3	53
85	Modulation of low-voltage-activated T-type Ca <sup>2+</sup> channels. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1550-1559.	1.4	51
86	Splice-variant changes of the Ca <sub>v</sub> 3.2 T-type calcium channel mediate voltage-dependent facilitation and associate with cardiac hypertrophy and development. <i>Channels</i> , 2010, 4, 375-389.	1.5	50
87	Ca <sub>v</sub> 3.2 calcium channels control NMDA receptor-mediated transmission: a new mechanism for absence epilepsy. <i>Genes and Development</i> , 2015, 29, 1535-1551.	2.7	48
88	Voltage-Gated Calcium Channels Direct Neuronal Migration in <i>Caenorhabditis elegans</i> . <i>Developmental Biology</i> , 2000, 226, 104-117.	0.9	46
89	Amino Acid Residues Outside of the Pore Region Contribute to N-type Calcium Channel Permeation. <i>Journal of Biological Chemistry</i> , 2001, 276, 5726-5730.	1.6	45
90	Volatile anesthetic inhibition of neuronal Ca channel currents expressed in <i>Xenopus</i> oocytes. <i>Brain Research</i> , 1999, 831, 85-96.	1.1	44

#	ARTICLE	IF	CITATIONS
91	Pseudomigraine With Lymphocytic Pleocytosis: A Calcium Channelopathy? Clinical Description of 10 Cases and Genetic Analysis of the Familial Hemiplegic Migraine Gene CACNA1A. <i>Headache</i> , 2003, 43, 892-895.	1.8	43
92	Structure-activity relationships of diphenylpiperazine N-type calcium channel inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 1378-1383.	1.0	43
93	Selective Inhibition of Cav3.3 T-type Calcium Channels by G $\beta$ q/11-coupled Muscarinic Acetylcholine Receptors. <i>Journal of Biological Chemistry</i> , 2007, 282, 21043-21055.	1.6	42
94	Z944, a Novel Selective T-Type Calcium Channel Antagonist Delays the Progression of Seizures in the Amygdala Kindling Model. <i>PLoS ONE</i> , 2015, 10, e0130012.	1.1	42
95	Compensatory T-type Ca <sup>2+</sup> channel activity alters D2-autoreceptor responses of Substantia nigra dopamine neurons from Cav1.3 L-type Ca <sup>2+</sup> channel KO mice. <i>Scientific Reports</i> , 2015, 5, 13688.	1.6	40
96	Inhibition of Neuronal Calcium Channels by a Novel Peptide Spider Toxin, DW13.3. <i>Molecular Pharmacology</i> , 1998, 54, 407-418.	1.0	38
97	Pregabalin as a Pain Therapeutic: Beyond Calcium Channels. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 83.	1.8	37
98	Contributions of T-Type Voltage-Gated Calcium Channels to Postsynaptic Calcium Signaling within Purkinje Neurons. <i>Cerebellum</i> , 2012, 11, 651-665.	1.4	36
99	Ca <sub>v</sub> 3.2 drives sustained burst-firing, which is critical for absence seizure propagation in reticular thalamic neurons. <i>Epilepsia</i> , 2018, 59, 778-791.	2.6	36
100	A Blocker of N- and T-type Voltage-Gated Calcium Channels Attenuates Ethanol-Induced Intoxication, Place Preference, Self-Administration, and Reinstatement. <i>Journal of Neuroscience</i> , 2008, 28, 11712-11719.	1.7	35
101	The Cacna1h mutation in the GAERS model of absence epilepsy enhances T-type Ca <sup>2+</sup> currents by altering calnexin-dependent trafficking of Cav3.2 channels. <i>Scientific Reports</i> , 2017, 7, 11513.	1.6	35
102	Calcium-activated SK potassium channels are key modulators of the pacemaker frequency in locus coeruleus neurons. <i>Molecular and Cellular Neurosciences</i> , 2018, 88, 330-341.	1.0	35
103	Thalamocortical neurons display suppressed burst-firing due to an enhanced I <sub>h</sub> current in a genetic model of absence epilepsy. <i>Pflügers Archiv European Journal of Physiology</i> , 2015, 467, 1367-1382.	1.3	33
104	The Sodium "Leak" Has Finally Been Plugged. <i>Neuron</i> , 2007, 54, 505-507.	3.8	32
105	Molecular Properties of Calcium Channels in Skeletal Muscle and Neurons. <i>Annals of the New York Academy of Sciences</i> , 1993, 681, 342-355.	1.8	31
106	The genetic absence epilepsy rats from Strasbourg model of absence epilepsy exhibits alterations in fear conditioning and latent inhibition consistent with psychiatric comorbidities in humans. <i>European Journal of Neuroscience</i> , 2016, 43, 25-40.	1.2	31
107	T-type calcium channels functionally interact with spectrin ( $\beta$ 1/2) and ankyrin B. <i>Molecular Brain</i> , 2018, 11, 24.	1.3	31
108	Epigallocatechin-3-gallate elicits Ca <sup>2+</sup> spike in MCF-7 breast cancer cells: Essential role of Cav3.2 channels. <i>Cell Calcium</i> , 2014, 56, 285-295.	1.1	30

#	ARTICLE	IF	CITATIONS
109	Calcium currents recorded from a neuronal $\text{I}_{\text{CL}}$ -type calcium channel in <i>Xenopus</i> oocytes. <i>FEBS Letters</i> , 1994, 344, 87-90.	1.3	29
110	The T-type calcium channel antagonist Z944 rescues impairments in crossmodal and visual recognition memory in Genetic Absence Epilepsy Rats from Strasbourg. <i>Neurobiology of Disease</i> , 2016, 94, 106-115.	2.1	29
111	Molecular nature of voltage-gated calcium channels: structure and species comparison. <i>Environmental Sciences Europe</i> , 2013, 2, 181-206.	2.6	27
112	The T-type calcium channel antagonist, Z944, reduces spinal excitability and pain hypersensitivity. <i>British Journal of Pharmacology</i> , 2021, 178, 3517-3532.	2.7	27
113	A Fluorescence-Based High-Throughput Screening Assay for the Identification of T-Type Calcium Channel Blockers. <i>Assay and Drug Development Technologies</i> , 2009, 7, 266-280.	0.6	26
114	A concerted action of L- and T-type $\text{Ca}^{2+}$ channels regulates locus coeruleus pacemaking. <i>Molecular and Cellular Neurosciences</i> , 2015, 68, 293-302.	1.0	26
115	Sociability impairments in Genetic Absence Epilepsy Rats from Strasbourg: Reversal by the T-type calcium channel antagonist Z944. <i>Experimental Neurology</i> , 2017, 296, 16-22.	2.0	26
116	Gabapentin: A novel analgesic targeting voltage-gated calcium channels. <i>Drug Development Research</i> , 2001, 54, 167-172.	1.4	24
117	Structure-activity relationships of trimethoxybenzyl piperazine N-type calcium channel inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 4153-4158.	1.0	24
118	Malaysian Siblings with Friedreich Ataxia and Chorea: A Novel Deletion in the Frataxin Gene. <i>Canadian Journal of Neurological Sciences</i> , 2004, 31, 383-386.	0.3	23
119	C-terminal splice variants of P/Q-type $\text{Ca}^{2+}$ channel $\text{Ca}_v2.1$ subunits are differentially regulated by Rab3-interacting molecule proteins. <i>Journal of Biological Chemistry</i> , 2017, 292, 9365-9381.	1.6	23
120	Disease-modifying effects of a novel T-type calcium channel antagonist, Z944, in a model of temporal lobe epilepsy. <i>Progress in Neurobiology</i> , 2019, 182, 101677.	2.8	23
121	Dissociable changes in spike and wave discharges following exposure to injected cannabinoids and smoked cannabis in Genetic Absence Epilepsy Rats from Strasbourg. <i>European Journal of Neuroscience</i> , 2022, 55, 1063-1078.	1.2	23
122	Evidence for a specific site for modulation of calcium channel activation by external calcium ions. <i>Pflügers Archiv European Journal of Physiology</i> , 1996, 431, 470-472.	1.3	22
123	Positive allosteric modulation of type 1 cannabinoid receptors reduces spike-and-wave discharges in Genetic Absence Epilepsy Rats from Strasbourg. <i>Neuropharmacology</i> , 2021, 190, 108553.	2.0	22
124	Molecular Properties of Voltage-Gated Calcium Channels. , 2005, , 61-94.		20
125	Melatonin-mediated inhibition of $\text{Ca}_v3.2$ T-type $\text{Ca}^{2+}$ channels induces sensory neuronal hypoexcitability through the novel protein kinase $\text{C}\epsilon$ isoform. <i>Journal of Pineal Research</i> , 2018, 64, e12476.	3.4	20
126	$\alpha$ 1B N-Type Calcium Channel Isoforms with Distinct Biophysical Properties. <i>Annals of the New York Academy of Sciences</i> , 1999, 868, 118-130.	1.8	19



#	ARTICLE	IF	CITATIONS
127	Contributions of T-type calcium channels to the pathophysiology of pain signaling. <i>Drug Discovery Today Disease Mechanisms</i> , 2006, 3, 335-341.	0.8	19
128	Amyotrophic lateral sclerosis-immunoglobulins selectively interact with neuromuscular junctions expressing P/Q-type calcium channels. <i>Journal of Neurochemistry</i> , 2011, 119, 826-838.	2.1	19
129	The T-type calcium channel antagonist, Z944, alters social behavior in Genetic Absence Epilepsy Rats from Strasbourg. <i>Behavioural Brain Research</i> , 2019, 361, 54-64.	1.2	18
130	A high degree of DNA strain polymorphism associated with the major heat shock gene in <i>Caenorhabditis elegans</i> . <i>Molecular Genetics and Genomics</i> , 1984, 195, 329-335.	2.4	16
131	T-type calcium channels: an emerging therapeutic target for the treatment of pain. <i>Drug Development Research</i> , 2006, 67, 404-415.	1.4	16
132	Repression of a Potassium Channel by Nuclear Hormone Receptor and TGF- $\beta^2$ Signaling Modulates Insulin Signaling in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2012, 8, e1002519.	1.5	16
133	Fast oxygen dynamics as a potential biomarker for epilepsy. <i>Scientific Reports</i> , 2018, 8, 17935.	1.6	16
134	Modulating Modulation: Crosstalk Between Regulatory Pathways of Presynaptic Calcium Channels. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2002, 2, 476-478.	3.4	16
135	Histone methylation-mediated microRNA-32-5p down-regulation in sensory neurons regulates pain behaviors via targeting Cav3.2 channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117209119.	3.3	16
136	Modular, efficient synthesis of asymmetrically substituted piperazine scaffolds as potent calcium channel blockers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 3257-3261.	1.0	15
137	Peripheral nerve injury increases contribution of L-type calcium channels to synaptic transmission in spinal lamina II: Role of $\beta_1$ subunits. <i>Molecular Pain</i> , 2018, 14, 174480691876580.	1.0	15
138	Voltage-Gated Calcium Channels in Epilepsy. , 2012, , 66-84.		15
139	Identification of Sodium Channel Isoforms That Mediate Action Potential Firing in Lamina I/II Spinal Cord Neurons. <i>Molecular Pain</i> , 2011, 7, 1744-8069-7-67.	1.0	14
140	The T-type calcium channel antagonist Z944 disrupts prepulse inhibition in both epileptic and non-epileptic rats. <i>Neuroscience</i> , 2016, 332, 121-129.	1.1	14
141	GABAB receptors suppress burst-firing in reticular thalamic neurons. <i>Channels</i> , 2017, 11, 574-586.	1.5	14
142	Mutation analysis of the sodium/hydrogen exchanger gene (NHE5) in familial paroxysmal kinesigenic dyskinesia. <i>Journal of Neural Transmission</i> , 2002, 109, 1189-1194.	1.4	12
143	Block of voltage-gated calcium channels stimulates dopamine efflux in rat mesocorticolimbic system. <i>Neuropharmacology</i> , 2009, 56, 984-993.	2.0	12
144	Voltage-gated calcium channels in epilepsy. <i>Epilepsia</i> , 2010, 51, 11-11.	2.6	12

#	ARTICLE	IF	CITATIONS
145	Hyperexcitable superior colliculus and fatal brainstem spreading depolarization in a model of Sudden Unexpected Death in Epilepsy. <i>Brain Communications</i> , 2022, 4, fcac006.	1.5	12
146	Leftward Shift in the Voltage-Dependence for Ca <sup>2+</sup> Currents Activation Induced by a New Toxin from <i>Phoneutria reidyi</i> (Aranae, Ctenidae) Venom. <i>Cellular and Molecular Neurobiology</i> , 2007, 27, 129-146.	1.7	11
147	Cognitive Impairments in Touchscreen-based Visual Discrimination and Reversal Learning in Genetic Absence Epilepsy Rats from Strasbourg. <i>Neuroscience</i> , 2020, 430, 105-112.	1.1	11
148	Expression of mRNA Encoding Voltage-Dependent Ca Channels in <i>Xenopus</i> Oocytes... <i>Annals of the New York Academy of Sciences</i> , 1989, 560, 174-182.	1.8	10
149	The T-type calcium channel blocker Z944 reduces conditioned fear in Genetic Absence Epilepsy Rats from Strasbourg and the non-epileptic control strain. <i>European Journal of Neuroscience</i> , 2019, 50, 3046-3059.	1.2	10
150	Treatments for neuropathic pain differentially affect delayed matching accuracy by macaques: Effects of amitriptyline and gabapentin. <i>Pain</i> , 2010, 148, 446-453.	2.0	7
151	Differential cerebellar GABAA receptor expression in mice with mutations in CaV2.1 (P/Q-type) calcium channels. <i>Neuroscience</i> , 2015, 304, 198-208.	1.1	6
152	T-type calcium channels in the orbitofrontal cortex mediate sensory integration as measured using a spontaneous oddity task in rats. <i>Learning and Memory</i> , 2018, 25, 317-324.	0.5	6
153	L-type calcium channel contributions to intrinsic excitability and synaptic activity during basolateral amygdala postnatal development. <i>Journal of Neurophysiology</i> , 2020, 123, 1216-1235.	0.9	6
154	Advances in voltage-gated calcium channel structure, function and physiology. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1521.	1.4	5
155	Effects of the T-type calcium channel antagonist Z944 on paired associates learning and locomotor activity in rats treated with the NMDA receptor antagonist MK-801. <i>Psychopharmacology</i> , 2018, 235, 3339-3350.	1.5	5
156	Evidence for altered insulin signalling in the brains of genetic absence epilepsy rats from Strasbourg. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2020, 47, 1530-1536.	0.9	5
157	The type 1 cannabinoid receptor positive allosteric modulators GAT591 and GAT593 reduce spike-and-wave discharges in Genetic Absence Epilepsy Rats from Strasbourg. <i>IBRO Neuroscience Reports</i> , 2022, 12, 121-130.	0.7	5
158	Elevated sterol regulatory elementary binding protein 1 and GluA2 levels in the hippocampal nuclear fraction of Genetic Absence Epilepsy Rats from Strasbourg. <i>Epilepsy Research</i> , 2017, 136, 1-4.	0.8	4
159	T-type calcium channels regulate the acquisition and recall of conditioned fear in male, Wistar rats. <i>Behavioural Brain Research</i> , 2020, 393, 112747.	1.2	3
160	The Triggler effect. <i>Biochemical Pharmacology</i> , 2015, 98, 322-326.	2.0	2
161	Heantos-4, a natural plant extract used in the treatment of drug addiction, modulates T-type calcium channels and thalamocortical burst-firing. <i>Molecular Brain</i> , 2016, 9, 94.	1.3	1
162	Molecular and functional insights into voltage-gated calcium channels. <i>Advances in Molecular and Cell Biology</i> , 2004, 32, 381-406.	0.1	0

#	ARTICLE	IF	CITATIONS
163	The unusual suspects: Regulation of retinal calcium channels by somatostatin. Channels, 2015, 9, 61-62.	1.5	0
164	T-Type Calcium Channels and Epilepsy. , 2014, , 77-96.		0