

Edward Perez-Reyes

List of Publications by Year in descending order

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113
papers

13,832
citations

31902

53
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22764

112
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all docs

113
docs citations

113
times ranked

8734
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Physiology of Low-Voltage-Activated T-type Calcium Channels. <i>Physiological Reviews</i> , 2003, 83, 117-161.	13.1	1,481
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	Differential Distribution of Three Members of a Gene Family Encoding Low Voltage-Activated (T-Type) Calcium Channels. <i>Journal of Neuroscience</i> , 1999, 19, 1895-1911.	1.7	725
5	Molecular characterization of a neuronal low-voltage-activated T-type calcium channel. <i>Nature</i> , 1998, 391, 896-900.	13.7	724
6	Cloning and Characterization of \hat{I}_{T1H} From Human Heart, a Member of the T-Type Ca^{2+} Channel Gene Family. <i>Circulation Research</i> , 1998, 83, 103-109.	2.0	554
7	Nickel Block of Three Cloned T-Type Calcium Channels: Low Concentrations Selectively Block \hat{I}_{T1H} . <i>Biophysical Journal</i> , 1999, 77, 3034-3042.	0.2	496
8	Cloning and Expression of a Novel Member of the Low Voltage-Activated T-Type Calcium Channel Family. <i>Journal of Neuroscience</i> , 1999, 19, 1912-1921.	1.7	440
9	Normalization of current kinetics by interaction between the \hat{I}_{T1} and \hat{I}_{T2} subunits of the skeletal muscle dihydropyridine-sensitive Ca^{2+} channel. <i>Nature</i> , 1991, 352, 527-530.	13.7	295
10	Ducky Mouse Phenotype of Epilepsy and Ataxia Is Associated with Mutations in the <i>Cacna2d2</i> Gene and Decreased Calcium Channel Current in Cerebellar Purkinje Cells. <i>Journal of Neuroscience</i> , 2001, 21, 6095-6104.	1.7	289
11	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Ion channels. <i>British Journal of Pharmacology</i> , 2019, 176, S142-S228.	2.7	242
12	Redox Modulation of T-Type Calcium Channels in Rat Peripheral Nociceptors. <i>Neuron</i> , 2001, 31, 75-85.	3.8	230
13	International Union of Pharmacology. XL. Compendium of Voltage-Gated Ion Channels: Calcium Channels. <i>Pharmacological Reviews</i> , 2003, 55, 579-581.	7.1	221
14	Specific contribution of human T-type calcium channel isoforms (\hat{I}_{T1G} , \hat{I}_{T1H} and \hat{I}_{T1L}) to neuronal excitability. <i>Journal of Physiology</i> , 2002, 540, 3-14.	1.3	203
15	Regulation of breathing by CO_2 requires the proton-activated receptor GPR4 in retrotrapezoid nucleus neurons. <i>Science</i> , 2015, 348, 1255-1260.	6.0	190
16	Ca channels in cardiac myocytes: structure and function in Ca influx and intracellular Ca release. <i>Cardiovascular Research</i> , 1999, 42, 339-360.	1.8	189
17	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Ion channels. <i>British Journal of Pharmacology</i> , 2021, 178, S157-S245.	2.7	187
18	Inhibition of T-type voltage-gated calcium channels by a new scorpion toxin. <i>Nature Neuroscience</i> , 1998, 1, 668-674.	7.1	185

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19	Block of Cloned Human T-Type Calcium Channels by Succinimide Antiepileptic Drugs. <i>Molecular Pharmacology</i> , 2001, 60, 1121-1132.	1.0	183
20	Functional Characterization and Neuronal Modeling of the Effects of Childhood Absence Epilepsy Variants of CACNA1H, a T-Type Calcium Channel. <i>Journal of Neuroscience</i> , 2005, 25, 4844-4855.	1.7	169
21	Functional Properties of a New Voltage-dependent Calcium Channel $\alpha_2\beta$ Auxiliary Subunit Gene (CACNA2D2). <i>Journal of Biological Chemistry</i> , 2000, 275, 12237-12242.	1.6	165
22	Molecular biology of calcium channels. <i>Kidney International</i> , 1995, 48, 1111-1124.	2.6	152
23	Comparison of the Ca^{2+} currents induced by expression of three cloned α_1 subunits, α_1G , α_1H and α_1I , of low-voltage-activated T-type Ca^{2+} channels. <i>European Journal of Neuroscience</i> , 1999, 11, 4171-4178.	1.2	152
24	Role of voltage-gated calcium channels in epilepsy. <i>Pflugers Archiv European Journal of Physiology</i> , 2010, 460, 395-403.	1.3	149
25	The Endogenous Redox Agent L-Cysteine Induces T-Type Ca^{2+} Channel-Dependent Sensitization of a Novel Subpopulation of Rat Peripheral Nociceptors. <i>Journal of Neuroscience</i> , 2005, 25, 8766-8775.	1.7	148
26	Reducing Agents Sensitize C-Type Nociceptors by Relieving High-Affinity Zinc Inhibition of T-Type Calcium Channels. <i>Journal of Neuroscience</i> , 2007, 27, 8250-8260.	1.7	147
27	Low-voltage-activated calcium channel subunit expression in a genetic model of absence epilepsy in the rat. <i>Molecular Brain Research</i> , 2000, 75, 159-165.	2.5	130
28	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
29	Calcium channels: Structure, function, and classification. <i>Drug Development Research</i> , 1994, 33, 295-318.	1.4	119
30	The I-II Loop Controls Plasma Membrane Expression and Gating of Cav3.2 T-Type Ca^{2+} Channels: A Paradigm for Childhood Absence Epilepsy Mutations. <i>Journal of Neuroscience</i> , 2007, 27, 322-330.	1.7	107
31	Membrane Targeting of L-type Calcium Channels. <i>Journal of Biological Chemistry</i> , 1998, 273, 23590-23597.	1.6	106
32	A Molecular Determinant of Nickel Inhibition in Cav3.2 T-type Calcium Channels. <i>Journal of Biological Chemistry</i> , 2006, 281, 4823-4830.	1.6	101
33	Anticonvulsants But Not General Anesthetics Have Differential Blocking Effects on Different T-Type Current Variants. <i>Molecular Pharmacology</i> , 2000, 58, 98-108.	1.0	96
34	Molecular characterization of T-type calcium channels. <i>Cell Calcium</i> , 2006, 40, 89-96.	1.1	95
35	State-Dependent Inactivation of the α_1G T-Type Calcium Channel. <i>Journal of General Physiology</i> , 1999, 114, 185-202.	0.9	94
36	Overexpression of T-type calcium channels in HEK-293 cells increases intracellular calcium without affecting cellular proliferation. <i>FEBS Letters</i> , 2000, 478, 166-172.	1.3	94

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37	Regulation of the cloned L-type cardiac calcium channel by cyclic-AMP-dependent protein kinase. FEBS Letters, 1994, 342, 119-123.	1.3	91
38	Cloning of a novel four repeat protein related to voltage-gated sodium and calcium channels. FEBS Letters, 1999, 445, 231-236.	1.3	90
39	CaV3.2 is the major molecular substrate for redox regulation of T-type Ca ²⁺ channels in the rat and mouse thalamus. Journal of Physiology, 2006, 574, 415-430.	1.3	81
40	Cloning and Expression of the Human T-Type Channel Cav3.3: Insights into Prepulse Facilitation. Biophysical Journal, 2002, 83, 229-241.	0.2	79
41	Molecular characterization of a novel family of low voltage-activated, T-type, calcium channels. Journal of Bioenergetics and Biomembranes, 1998, 30, 313-318.	1.0	78
42	Molecular Pharmacology of T-type Ca ²⁺ Channels. The Japanese Journal of Pharmacology, 2001, 85, 339-350.	1.2	77
43	Stimulation of recombinant Cav3.2, T-type, Ca ²⁺ channel currents by CaMKII β C. Journal of Physiology, 2002, 538, 343-355.	1.3	75
44	Distinct kinetics of cloned T-type Ca ²⁺ channels lead to differential Ca ²⁺ entry and frequency-dependence during mock action potentials. European Journal of Neuroscience, 1999, 11, 4149-4158.	1.2	74
45	Molecular Pharmacology of Human Ca ^v 3.2 T-Type Ca ²⁺ Channels: Block by Antihypertensives, Antiarrhythmics, and Their Analogs. Journal of Pharmacology and Experimental Therapeutics, 2009, 328, 621-627.	1.3	74
46	Mechanisms by which a <i>CACNA1H</i> mutation in epilepsy patients increases seizure susceptibility. Journal of Physiology, 2014, 592, 795-809.	1.3	72
47	\hat{I}_{T1} T-type Ca ²⁺ channel is the predominant subtype expressed in bovine and rat zona glomerulosa. American Journal of Physiology - Cell Physiology, 2001, 280, C265-C272.	2.1	66
48	Nalcn Is a "Leak" Sodium Channel That Regulates Excitability of Brainstem Chemosensory Neurons and Breathing. Journal of Neuroscience, 2016, 36, 8174-8187.	1.7	66
49	Low-Voltage-Activated Ca ²⁺ Currents Are Generated by Members of the CavT Subunit Family ($\hat{I}_{T1G/H}$) in Rat Primary Sensory Neurons. Journal of Neuroscience, 1998, 18, 8605-8613.	1.7	63
50	Functional coupling between \hat{I}_{T1} Ca ²⁺ channels and insulin secretion in the insulinoma cell line INS-1. FEBS Journal, 2001, 268, 1066-1075.	0.2	63
51	New isoform of the neuronal Ca ²⁺ channel $\alpha 1E$ subunit in islets of Langerhans and kidney . Distribution of voltage-gated Ca ²⁺ channel $\alpha 1$ subunits in cell lines and tissues. FEBS Journal, 1998, 257, 274-285.	0.2	59
52	Molecular diversity of Ca ²⁺ channel \hat{I}_T subunits. Biochemical Society Transactions, 1994, 22, 483-488.	1.6	57
53	Molecular Mechanisms of Lipoic Acid Modulation of T-Type Calcium Channels in Pain Pathway. Journal of Neuroscience, 2009, 29, 9500-9509.	1.7	57
54	Contrasting anesthetic sensitivities of T-type Ca ²⁺ channels of reticular thalamic neurons and recombinant Cav 3.3 channels. British Journal of Pharmacology, 2005, 144, 59-70.	2.7	56

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55	Molecular Determinants of Cardiac Ca ²⁺ Channel Pharmacology. <i>Journal of Biological Chemistry</i> , 1995, 270, 27106-27111.	1.6	55
56	The role of voltage gated T-type Ca ²⁺ channel isoforms in mediating α -capacitative Ca ²⁺ entry in cancer cells. <i>Cell Calcium</i> , 2004, 36, 489-497.	1.1	54
57	Molecular cloning and functional expression of Cav 3.1c, a T-type calcium channel from human brain. <i>FEBS Letters</i> , 2000, 466, 54-58.	1.3	52
58	Transfer of \hat{I}^2 subunit regulation from high to low voltage-gated Ca ²⁺ channels. <i>FEBS Letters</i> , 2005, 579, 3907-3912.	1.3	52
59	Functional Impact of Alternative Splicing of Human T-Type Cav3.3 Calcium Channels. <i>Journal of Neurophysiology</i> , 2004, 92, 3399-3407.	0.9	50
60	Differential Regulation of Skeletal Muscle L-Type Ca ²⁺ Current and Excitation-Contraction Coupling by the Dihydropyridine Receptor \hat{I}^2 Subunit. <i>Biophysical Journal</i> , 1999, 76, 1744-1756.	0.2	49
61	Ca _v 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
62	Alternative splicing of the rat Cav 3.3 T-type calcium channel gene produces variants with distinct functional properties. <i>FEBS Letters</i> , 2002, 528, 272-278.	1.3	47
63	Calmodulin plays a dominant role in determining neurotransmitter regulation of neuronal adenylate cyclase. <i>Journal of Cellular Biochemistry</i> , 1988, 36, 417-427.	1.2	46
64	Validation of High Throughput Screening Assays Against Three Subtypes of Cav3 T-Type Channels Using Molecular and Pharmacologic Approaches. <i>Assay and Drug Development Technologies</i> , 2007, 5, 191-204.	0.6	46
65	Central Mechanisms Mediating Thrombospondin-4-induced Pain States. <i>Journal of Biological Chemistry</i> , 2016, 291, 13335-13348.	1.6	46
66	The reduction of nitroso-spin traps in chemical and biological systems. A cautionary note. <i>Tetrahedron Letters</i> , 1979, 20, 4809-4812.	0.7	45
67	Mg ²⁺ Block Unmasks Ca ²⁺ /Ba ²⁺ Selectivity of \hat{I}^1 T-Type Calcium Channels. <i>Biophysical Journal</i> , 2000, 79, 3052-3062.	0.2	45
68	Gating Kinetics of the \hat{I}^1 T-Type Calcium Channel. <i>Journal of General Physiology</i> , 2001, 118, 457-470.	0.9	44
69	II Loop Structural Determinants in the Gating and Surface Expression of Low Voltage-Activated Calcium Channels. <i>PLoS ONE</i> , 2008, 3, e2976.	1.1	43
70	Differences in Apparent Pore Sizes of Low and High Voltage-activated Ca ²⁺ Channels. <i>Journal of Biological Chemistry</i> , 2002, 277, 45969-45976.	1.6	41
71	Actions of Mibefradil, Efonidipine and Nifedipine Block of Recombinant T- and L-Type Ca ²⁺ Channels with Distinct Inhibitory Mechanisms. <i>Pharmacology</i> , 2006, 78, 11-20.	0.9	41
72	Characterization of the Gating Brake in the II Loop of Cav3.2 T-type Ca ²⁺ Channels. <i>Journal of Biological Chemistry</i> , 2008, 283, 8136-8144.	1.6	41

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73	Structural Determinants of the High Affinity Extracellular Zinc Binding Site on Cav3.2 T-type Calcium Channels. <i>Journal of Biological Chemistry</i> , 2010, 285, 3271-3281.	1.6	40
74	Molecular Diversity and Function of G Proteins and Calcium Channels. <i>Biology of Reproduction</i> , 1991, 44, 207-224.	1.2	38
75	Activation of Pyramidal Neurons in Mouse Medial Prefrontal Cortex Enhances Food-Seeking Behavior While Reducing Impulsivity in the Absence of an Effect on Food Intake. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 63.	1.0	38
76	A novel therapeutic approach for treatment of catamenial epilepsy. <i>Neurobiology of Disease</i> , 2018, 111, 127-137.	2.1	36
77	CACHD1 is an α -Like Protein That Modulates Ca_v3 Voltage-Gated Calcium Channel Activity. <i>Journal of Neuroscience</i> , 2018, 38, 9186-9201.	1.7	36
78	LMO7 deficiency reveals the significance of the cuticular plate for hearing function. <i>Nature Communications</i> , 2019, 10, 1117.	5.8	36
79	Molecular and biophysical basis of glutamate and trace metal modulation of voltage-gated Cav2.3 calcium channels. <i>Journal of General Physiology</i> , 2012, 139, 219-234.	0.9	32
80	Modulation of Cav 3.2 T-type Ca^{2+} channels by protein kinase C. <i>FEBS Letters</i> , 2003, 547, 37-42.	1.3	31
81	A brainstem peptide system activated at birth protects postnatal breathing. <i>Nature</i> , 2021, 589, 426-430.	13.7	31
82	A potassium leak channel silences hyperactive neurons and ameliorates status epilepticus. <i>Epilepsia</i> , 2014, 55, 203-213.	2.6	30
83	Molecular Characterization of Two Members of the T-Type Calcium Channel Family. <i>Annals of the New York Academy of Sciences</i> , 1999, 868, 131-143.	1.8	29
84	Calmodulin regulates Cav3 T-type channels at their gating brake. <i>Journal of Biological Chemistry</i> , 2017, 292, 20010-20031.	1.6	29
85	Single-Channel Pharmacology of Mibefradil in Human Native T-Type and Recombinant Cav3.2 Calcium Channels. <i>Molecular Pharmacology</i> , 2002, 61, 682-694.	1.0	28
86	Orientation of the Calcium Channel α_2 Relative to the α_1 Subunit Is Critical for Its Regulation of Channel Activity. <i>PLoS ONE</i> , 2008, 3, e3560.	1.1	28
87	Alternative splicing within the α_1 loop controls surface expression of α_1 $\text{Ca}_v3.1$ calcium channels. <i>FEBS Letters</i> , 2008, 582, 3765-3770.	1.3	27
88	Characterization of the gating brake in the III loop of Cav3 T-type calcium channels. <i>Channels</i> , 2010, 4, 453-458.	1.5	26
89	Orientation of palmitoylated $\text{Ca}_v2.2a$ relative to $\text{Ca}_v2.2$ is critical for slow pathway modulation of N-type Ca^{2+} current by tachykinin receptor activation. <i>Journal of General Physiology</i> , 2009, 134, 385-396.	0.9	24
90	Functional variants in HCN4 and CACNA1H may contribute to genetic generalized epilepsy. <i>Epilepsia Open</i> , 2017, 2, 334-342.	1.3	22

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91	Contrasting the effects of nifedipine on subtypes of endogenous and recombinant T-type Ca ²⁺ channels. <i>Biochemical Pharmacology</i> , 2005, 69, 841-854.	2.0	21
92	G Protein-Mediated Inhibition of Ca _v 3.2 T-Type Channels Revisited: Fig. 1.. <i>Molecular Pharmacology</i> , 2010, 77, 136-138.	1.0	20
93	Effects of Eugenol on T-type Ca ²⁺ Channel Isoforms. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2013, 347, 310-317.	1.3	20
94	The voltage dependence of gating currents of the neuronal CAV3.3 channel is determined by the gating brake in the I _h loop. <i>Pflugers Archiv European Journal of Physiology</i> , 2011, 461, 461-468.	1.3	14
95	Paradoxical Role of T-type Calcium Channels in Coronary Smooth Muscle. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2004, 4, 16-18.	3.4	13
96	Cloning of a novel one-repeat calcium channel-like gene. <i>Biochemical and Biophysical Research Communications</i> , 2003, 303, 31-36.	1.0	12
97	Ca ²⁺ Regulation of Cav3.3 T-type Ca ²⁺ Channel Is Mediated by Calmodulin. <i>Molecular Pharmacology</i> , 2017, 92, 347-357.	1.0	11
98	Targeting oxidized phospholipids by AAV-based gene therapy in mice with established hepatic steatosis prevents progression to fibrosis. <i>Science Advances</i> , 2022, 8, .	4.7	11
99	Ins and outs of T-channel structure function. <i>Pflugers Archiv European Journal of Physiology</i> , 2014, 466, 627-633.	1.3	10
100	Inhibition of T-Type calcium channels in mEC layer II stellate neurons reduces neuronal hyperexcitability associated with epilepsy. <i>Epilepsy Research</i> , 2019, 154, 132-138.	0.8	9
101	Contrasting the roles of the I _h loop gating brake in CaV3.1 and CaV3.3 calcium channels. <i>Pflugers Archiv European Journal of Physiology</i> , 2015, 467, 2519-2527.	1.3	8
102	Primary aldosteronism associated with a germline variant in <i>CACNA1H</i> . <i>BMJ Case Reports</i> , 2019, 12, e229031.	0.2	8
103	Effect of photobiomodulation on mitochondrial dynamics in peripheral nervous system in streptozotocin-induced type 1 diabetes in rats. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 293-301.	1.6	7
104	AMPK-mediated potentiation of GABAergic signalling drives hypoglycaemia-provoked spike-wave seizures. <i>Brain</i> , 2022, 145, 2332-2346.	3.7	7
105	The use of PCR to Probe Calcium Channel Diversity. <i>Journal of Receptors and Signal Transduction</i> , 1991, 11, 553-576.	1.2	4
106	Characterization of kindled VGAT ^{Cre} mice as a new animal model of temporal lobe epilepsy. <i>Epilepsia</i> , 2020, 61, 2277-2288.	2.6	4
107	Voltage-gated calcium channels (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. <i>IUPHAR/BPS Guide To Pharmacology CITE</i> , 2019, 2019, .	0.2	4
108	Preparation and Implantation of Electrodes for Electrically Kindling VGAT-Cre Mice to Generate a Model for Temporal Lobe Epilepsy. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	2

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109	Voltage-gated calcium channels (Ca _v) in GtoPdb v.2021.3. IUPHAR/BPS Guide To Pharmacology CITE, 2021, 2021, .	0.2	2
110	Corrigendum to: Molecular cloning and functional expression of Cav 3.1c, a T-type calcium channel from human brain. FEBS Letters, 2000, 470, 378-378.	1.3	1
111	Voltage-gated calcium channels in GtoPdb v.2021.2. IUPHAR/BPS Guide To Pharmacology CITE, 2021, 2021, .	0.2	1
112	Voltage-gated calcium channels. , 2009, , 104-130.		1
113	Voltage-gated calcium channels (version 2020.5) in the IUPHAR/BPS Guide to Pharmacology Database. IUPHAR/BPS Guide To Pharmacology CITE, 2020, 2020, .	0.2	1