Edward Perez-Reyes

List of Publications by Year
in descending order

113	13,832	31902 53	22764 112
papers	citations	h-index	g-index

113	113	113	8734
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	AMPK-mediated potentiation of GABAergic signalling drives hypoglycaemia-provoked spike-wave seizures. Brain, 2022, 145, 2332-2346.	3.7	7
2	Targeting oxidized phospholipids by AAV-based gene therapy in mice with established hepatic steatosis prevents progression to fibrosis. Science Advances, 2022, 8, .	4.7	11
3	A brainstem peptide system activated at birth protects postnatal breathing. Nature, 2021, 589, 426-430.	13.7	31
4	Effect of photobiomodulation on mitochondrial dynamics in peripheral nervous system in streptozotocin-induced type 1 diabetes in rats. Photochemical and Photobiological Sciences, 2021, 20, 293-301.	1.6	7
5	Voltage-gated calcium channels in GtoPdb v.2021.2. IUPHAR/BPS Guide To Pharmacology CITE, 2021, 2021, .	0.2	1
6	Preparation and Implantation of Electrodes for Electrically Kindling VGAT-Cre Mice to Generate a Model for Temporal Lobe Epilepsy. Journal of Visualized Experiments, 2021, , .	0.2	2
7	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Ion channels. British Journal of Pharmacology, 2021, 178, S157-S245.	2.7	187
8	Voltage-gated calcium channels (Ca_V) in GtoPdb v.2021.3. IUPHAR/BPS Guide To Pharmacology CITE, 2021, 2021, .	0.2	2
9	Characterization of kindled VGATâ€Cre mice as a new animal model of temporal lobe epilepsy. Epilepsia, 2020, 61, 2277-2288.	2.6	4
10	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
11	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Ion channels. British Journal of Pharmacology, 2019, 176, S142-S228.	2.7	242
12	Inhibition of T-Type calcium channels in mEC layer II stellate neurons reduces neuronal hyperexcitability associated with epilepsy. Epilepsy Research, 2019, 154, 132-138.	0.8	9
13	LMO7 deficiency reveals the significance of the cuticular plate for hearing function. Nature Communications, 2019, 10, 1117.	5.8	36
14	Primary aldosteronism associated with a germline variant in CACNA1H. BMJ Case Reports, 2019, 12, e229031.	0.2	8
15	Voltage-gated calcium channels (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. IUPHAR/BPS Guide To Pharmacology CITE, 2019, 2019, .	0.2	4
16	A novel therapeutic approach for treatment of catamenial epilepsy. Neurobiology of Disease, 2018, 111, 127-137.	2.1	36
17	CACHD1 is an Î±2Î´-Like Protein That Modulates Ca_V3 Voltage-Gated Calcium Channel Activity. Journal of Neuroscience, 2018, 38, 9186-9201.	1.7	36
18	Calmodulin regulates Cav3 T-type channels at their gating brake. Journal of Biological Chemistry, 2017, 292, 20010-20031.	1.6	29

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19	Functional variants in <scp>HCN</scp>4 and <scp>CACNA</scp>1H may contribute to genetic generalized epilepsy. Epilepsia Open, 2017, 2, 334-342.	1.3	22
20	Ca2+ Regulation of Cav3.3 T-type Ca2+ Channel Is Mediated by Calmodulin. Molecular Pharmacology, 2017, 92, 347-357.	1.0	11
21	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. Frontiers in Behavioral Neuroscience, 2016, 10, 63.	1.0	38
22	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
23	Central Mechanisms Mediating Thrombospondin-4-induced Pain States. Journal of Biological Chemistry, 2016, 291, 13335-13348.	1.6	46
24	Regulation of breathing by CO ₂ requires the proton-activated receptor GPR4 in retrotrapezoid nucleus neurons. Science, 2015, 348, 1255-1260.	6.0	190
25	Contrasting the roles of the I-II loop gating brake in CaV3.1 and CaV3.3 calcium channels. Pflugers Archiv European Journal of Physiology, 2015, 467, 2519-2527.	1.3	8
26	Ca_V3.2 calcium channels control NMDA receptor-mediated transmission: a new mechanism for absence epilepsy. Genes and Development, 2015, 29, 1535-1551.	2.7	48
27	A potassium leak channel silences hyperactive neurons and ameliorates status epilepticus. Epilepsia, 2014, 55, 203-213.	2.6	30
28	Ins and outs of T-channel structure function. Pflugers Archiv European Journal of Physiology, 2014, 466, 627-633.	1.3	10
29	Mechanisms by which a CACNA1H mutation in epilepsy patients increases seizure susceptibility. Journal of Physiology, 2014, 592, 795-809.	1.3	72
30	Effects of Eugenol on T-type Ca²⁺ Channel Isoforms. Journal of Pharmacology and Experimental Therapeutics, 2013, 347, 310-317.	1.3	20
31	Molecular and biophysical basis of glutamate and trace metal modulation of voltage-gated Cav2.3 calcium channels. Journal of General Physiology, 2012, 139, 219-234.	0.9	32
32	The voltage dependence of gating currents of the neuronal CAV3.3 channel is determined by the gating brake in the Iâ€“II loop. Pflugers Archiv European Journal of Physiology, 2011, 461, 461-468.	1.3	14
33	Role of voltage-gated calcium channels in epilepsy. Pflugers Archiv European Journal of Physiology, 2010, 460, 395-403.	1.3	149
34	G Protein-Mediated Inhibition of Ca_v3.2 T-Type Channels Revisited: Fig. 1.. Molecular Pharmacology, 2010, 77, 136-138.	1.0	20
35	Structural Determinants of the High Affinity Extracellular Zinc Binding Site on Cav3.2 T-type Calcium Channels. Journal of Biological Chemistry, 2010, 285, 3271-3281.	1.6	40
36	Characterization of the gating brake in the I-II loop of CaV3 T-type calcium channels. Channels, 2010, 4, 453-458.	1.5	26

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37	Molecular Mechanisms of Lipoic Acid Modulation of T-Type Calcium Channels in Pain Pathway. Journal of Neuroscience, 2009, 29, 9500-9509.	1.7	57
38	Orientation of palmitoylated CaVÎ²2a relative to CaV2.2 is critical for slow pathway modulation of N-type Ca2+ current by tachykinin receptor activation. Journal of General Physiology, 2009, 134, 385-396.	0.9	24
39	Molecular Pharmacology of Human Ca_v3.2 T-Type Ca²⁺ Channels: Block by Antihypertensives, Antiarrhythmics, and Their Analogs. Journal of Pharmacology and Experimental Therapeutics, 2009, 328, 621-627.	1.3	74
40	Voltage-gated calcium channels. , 2009, , 104-130.		1
41	Alternative splicing within the Iâ€“II loop controls surface expression of Tâ€type Ca_v3.1 calcium channels. FEBS Letters, 2008, 582, 3765-3770.	1.3	27
42	Characterization of the Gating Brake in the I-II Loop of Cav3.2 T-type Ca2+ Channels. Journal of Biological Chemistry, 2008, 283, 8136-8144.	1.6	41
43	Orientation of the Calcium Channel Î² Relative to the Î±12.2 Subunit Is Critical for Its Regulation of Channel Activity. PLoS ONE, 2008, 3, e3560.	1.1	28
44	Iâ€“II Loop Structural Determinants in the Gating and Surface Expression of Low Voltage-Activated Calcium Channels. PLoS ONE, 2008, 3, e2976.	1.1	43
45	Reducing Agents Sensitize C-Type Nociceptors by Relieving High-Affinity Zinc Inhibition of T-Type Calcium Channels. Journal of Neuroscience, 2007, 27, 8250-8260.	1.7	147
46	Validation of High Throughput Screening Assays Against Three Subtypes of Cav3 T-Type Channels Using Molecular and Pharmacologic Approaches. Assay and Drug Development Technologies, 2007, 5, 191-204.	0.6	46
47	Molecular Mechanisms of Subtype-Specific Inhibition of Neuronal T-Type Calcium Channels by Ascorbate. Journal of Neuroscience, 2007, 27, 12577-12583.	1.7	121
48	The I-II Loop Controls Plasma Membrane Expression and Gating of Cav3.2 T-Type Ca2+ Channels: A Paradigm for Childhood Absence Epilepsy Mutations. Journal of Neuroscience, 2007, 27, 322-330.	1.7	107
49	CaV3.2 is the major molecular substrate for redox regulation of T-type Ca2+channels in the rat and mouse thalamus. Journal of Physiology, 2006, 574, 415-430.	1.3	81
50	Molecular characterization of T-type calcium channels. Cell Calcium, 2006, 40, 89-96.	1.1	95
51	Actions of Mibefradil, Efonidipine and Nifedipine Block of Recombinant T- and L-Type Ca²⁺ Channels with Distinct Inhibitory Mechanisms. Pharmacology, 2006, 78, 11-20.	0.9	41
52	A Molecular Determinant of Nickel Inhibition in Cav3.2 T-type Calcium Channels. Journal of Biological Chemistry, 2006, 281, 4823-4830.	1.6	101
53	Contrasting anesthetic sensitivities of T-type Ca2+ channels of reticular thalamic neurons and recombinant Cav 3.3 channels. British Journal of Pharmacology, 2005, 144, 59-70.	2.7	56
54	Contrasting the effects of nifedipine on subtypes of endogenous and recombinant T-type Ca2+ channels. Biochemical Pharmacology, 2005, 69, 841-854.	2.0	21

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55	The Endogenous Redox Agent L-Cysteine Induces T-Type Ca2+ Channel-Dependent Sensitization of a Novel Subpopulation of Rat Peripheral Nociceptors. Journal of Neuroscience, 2005, 25, 8766-8775.	1.7	148
56	International Union of Pharmacology. XLVIII. Nomenclature and Structure-Function Relationships of Voltage-Gated Calcium Channels. Pharmacological Reviews, 2005, 57, 411-425.	7.1	1,110
57	Transfer of Î² subunit regulation from high to low voltage-gated Ca2+ channels. FEBS Letters, 2005, 579, 3907-3912.	1.3	52
58	Functional Characterization and Neuronal Modeling of the Effects of Childhood Absence Epilepsy Variants of CACNA1H, a T-Type Calcium Channel. Journal of Neuroscience, 2005, 25, 4844-4855.	1.7	169
59	Functional Impact of Alternative Splicing of Human T-Type Cav3.3 Calcium Channels. Journal of Neurophysiology, 2004, 92, 3399-3407.	0.9	50
60	The role of voltage gated T-type Ca2+ channel isoforms in mediating â€œcapacitativeâ€•Ca2+ entry in cancer cells. Cell Calcium, 2004, 36, 489-497.	1.1	54
61	Paradoxical Role of T-type Calcium Channels in Coronary Smooth Muscle. Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics, 2004, 4, 16-18.	3.4	13
62	International Union of Pharmacology. XL. Compendium of Voltage-Gated Ion Channels: Calcium Channels. Pharmacological Reviews, 2003, 55, 579-581.	7.1	221
63	Modulation of Cav 3.2 T-type Ca2+ channels by protein kinase C. FEBS Letters, 2003, 547, 37-42.	1.3	31
64	Cloning of a novel one-repeat calcium channel-like gene. Biochemical and Biophysical Research Communications, 2003, 303, 31-36.	1.0	12
65	Molecular Physiology of Low-Voltage-Activated T-type Calcium Channels. Physiological Reviews, 2003, 83, 117-161.	13.1	1,481
66	Single-Channel Pharmacology of Mibefradil in Human Native T-Type and Recombinant Cav3.2 Calcium Channels. Molecular Pharmacology, 2002, 61, 682-694.	1.0	28
67	Differences in Apparent Pore Sizes of Low and High Voltage-activated Ca2+ Channels. Journal of Biological Chemistry, 2002, 277, 45969-45976.	1.6	41
68	Alternative splicing of the rat Cav 3.3 T-type calcium channel gene produces variants with distinct functional properties1. FEBS Letters, 2002, 528, 272-278.	1.3	47
69	Cloning and Expression of the Human T-Type Channel Cav3.3: Insights into Prepulse Facilitation. Biophysical Journal, 2002, 83, 229-241.	0.2	79
70	Stimulation of recombinant Cav3.2, Tâ€type, Ca2+channel currents by CaMKIIÎ³C. Journal of Physiology, 2002, 538, 343-355.	1.3	75
71	Specific contribution of human Tâ€type calcium channel isotypes (Î± 1G , Î± 1H and Î± 1I) to neuronal excitability. Journal of Physiology, 2002, 540, 3-14.	1.3	203
72	Redox Modulation of T-Type Calcium Channels in Rat Peripheral Nociceptors. Neuron, 2001, 31, 75-85.	3.8	230

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73	Î±_{1H}T-type Ca²⁺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
74	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
75	Molecular Pharmacology of T-type Ca2+ Channels. The Japanese Journal of Pharmacology, 2001, 85, 339-350.	1.2	77
76	Functional coupling between â€˜R-typeâ€™ Ca2+channels and insulin secretion in the insulinoma cell line INS-1. FEBS Journal, 2001, 268, 1066-1075.	0.2	63
77	Gating Kinetics of the Î±1i T-Type Calcium Channel. Journal of General Physiology, 2001, 118, 457-470.	0.9	44
78	Block of Cloned Human T-Type Calcium Channels by Succinimide Antiepileptic Drugs. Molecular Pharmacology, 2001, 60, 1121-1132.	1.0	183
79	Anticonvulsants But Not General Anesthetics Have Differential Blocking Effects on Different T-Type Current Variants. Molecular Pharmacology, 2000, 58, 98-108.	1.0	96
80	Functional Properties of a New Voltage-dependent Calcium Channel Î±2Î´ Auxiliary Subunit Gene (CACNA2D2). Journal of Biological Chemistry, 2000, 275, 12237-12242.	1.6	165
81	Mg2+ Block Unmasks Ca2+/Ba2+ Selectivity of Î±1G T-Type Calcium Channels. Biophysical Journal, 2000, 79, 3052-3062.	0.2	45
82	Low-voltage-activated calcium channel subunit expression in a genetic model of absence epilepsy in the rat. Molecular Brain Research, 2000, 75, 159-165.	2.5	130
83	Nomenclature of Voltage-Gated Calcium Channels. Neuron, 2000, 25, 533-535.	3.8	868
84	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
85	Overexpression of T-type calcium channels in HEK-293 cells increases intracellular calcium without affecting cellular proliferation. FEBS Letters, 2000, 478, 166-172.	1.3	94
86	Molecular cloning and functional expression of Cav 3.1c, a T-type calcium channel from human brain. FEBS Letters, 2000, 466, 54-58.	1.3	52
87	Cloning and Expression of a Novel Member of the Low Voltage-Activated T-Type Calcium Channel Family. Journal of Neuroscience, 1999, 19, 1912-1921.	1.7	440
88	Ca channels in cardiac myocytes: structure and function in Ca influx and intracellular Ca release. Cardiovascular Research, 1999, 42, 339-360.	1.8	189
89	State-Dependent Inactivation of the Î±1g T-Type Calcium Channel. Journal of General Physiology, 1999, 114, 185-202.	0.9	94
90	Distinct kinetics of cloned T-type Ca2â€Š+â€Š channels lead to differential Ca2â€Š+â€Š entry and frequency-dependence during mock action potentials. European Journal of Neuroscience, 1999, 11, 4149-4158.	1.2	74

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91	Comparison of the Ca2â€Š+â€Š currents induced by expression of three cloned Î±1 subunits, Î±1G, Î±1H and Î±1I, of low-voltage-activated T-type Ca2â€Š+â€Š channels. European Journal of Neuroscience, 1999, 11, 4171-4178.	1.2	152
92	Molecular Characterization of Two Members of the T-Type Calcium Channel Family. Annals of the New York Academy of Sciences, 1999, 868, 131-143.	1.8	29
93	Cloning of a novel four repeat protein related to voltage-gated sodium and calcium channels. FEBS Letters, 1999, 445, 231-236.	1.3	90
94	Nickel Block of Three Cloned T-Type Calcium Channels: Low Concentrations Selectively Block Î±1H. Biophysical Journal, 1999, 77, 3034-3042.	0.2	496
95	Differential Regulation of Skeletal Muscle L-Type Ca2+ Current and Excitation-Contraction Coupling by the Dihydropyridine Receptor Î² Subunit. Biophysical Journal, 1999, 76, 1744-1756.	0.2	49
96	Differential Distribution of Three Members of a Gene Family Encoding Low Voltage-Activated (T-Type) Calcium Channels. Journal of Neuroscience, 1999, 19, 1895-1911.	1.7	725
97	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
98	Molecular characterization of a neuronal low-voltage-activated T-type calcium channel. Nature, 1998, 391, 896-900.	13.7	724
99	Inhibition of T-type voltage-gated calcium channels by a new scorpion toxin. Nature Neuroscience, 1998, 1, 668-674.	7.1	185
100	New isoform of the neuronal Ca2+ channel alpha1E subunit in islets of Langerhans and kidney . Distribution of voltage-gated Ca2+ channel alpha1 subunits in cell lines and tissues. FEBS Journal, 1998, 257, 274-285.	0.2	59
101	Membrane Targeting of L-type Calcium Channels. Journal of Biological Chemistry, 1998, 273, 23590-23597.	1.6	106
102	Cloning and Characterization of Î±1H From Human Heart, a Member of the T-Type Ca ²⁺ Channel Gene Family. Circulation Research, 1998, 83, 103-109.	2.0	554
103	Low-Voltage-Activated Ca2+Currents Are Generated by Members of the CavT Subunit Family (Î±1G/H) in Rat Primary Sensory Neurons. Journal of Neuroscience, 1998, 18, 8605-8613.	1.7	63
104	Molecular biology of calcium channels. Kidney International, 1995, 48, 1111-1124.	2.6	152
105	Molecular Determinants of Cardiac Ca2+ Channel Pharmacology. Journal of Biological Chemistry, 1995, 270, 27106-27111.	1.6	55
106	Calcium channels: Structure, function, and classification. Drug Development Research, 1994, 33, 295-318.	1.4	119
107	Regulation of the cloned L-type cardiac calcium channel by cyclic-AMP-dependent protein kinase. FEBS Letters, 1994, 342, 119-123.	1.3	91
108	Molecular diversity of Ca2+ channel Î² subunits. Biochemical Society Transactions, 1994, 22, 483-488.	1.6	57

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109	The use of PCR to Probe Calcium Channel Diversity. Journal of Receptors and Signal Transduction, 1991, 11, 553-576.	1.2	4
110	Molecular Diversity and Function of G Proteins and Calcium Channels1. Biology of Reproduction, 1991, 44, 207-224.	1.2	38
111	Normalization of current kinetics by interaction between the Î±1and Î² subunits of the skeletal muscle dihydropyridine-sensitive Ca2+ channel. Nature, 1991, 352, 527-530.	13.7	295
112	Calmodulin plays a dominant role in determining neurotransmitter regulation of neuronal adenylate cyclase. Journal of Cellular Biochemistry, 1988, 36, 417-427.	1.2	46
113	The reduction of nitroso-spin traps in chemical and biological sysetms. A cautionary note. Tetrahedron Letters, 1979, 20, 4809-4812.	0.7	45