JosÃ© M FernÃ¡ndez-FernÃ¡ndez

List of Publications by Year
in descending order

52 papers	2,684 citations	172457 29 h-index	189892 50 g-index
53 all docs	53 docs citations	53 times ranked	3411 citing authors

#	Article	IF	Citations
1	Earlyâ€onset severe spinocerebellar ataxia 42 with neurodevelopmental deficits (SCA42ND): Case report, pharmacological trial, and literature review. American Journal of Medical Genetics, Part A, 2021, 185, 256-260.	1.2	2
2	CACNA1A Mutations Causing Early Onset Ataxia: Profiling Clinical, Dysmorphic and Structural-Functional Findings. International Journal of Molecular Sciences, 2021, 22, 5180.	4.1	5
3	Mitostasis, Calcium and Free Radicals in Health, Aging and Neurodegeneration. Biomolecules, 2021, 11, 1012.	4.0	37
4	Arachidonic acid effect on the allosteric gating mechanism of BK (Slo1) channels associated with the Î²1 subunit. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183550.	2.6	5
5	Atrial Fibrillation in Heart Failure Is Associated with High Levels of Circulating microRNA-199a-5p and 22â€“5p and a Defective Regulation of Intracellular Calcium and Cell-to-Cell Communication. International Journal of Molecular Sciences, 2021, 22, 10377.	4.1	11
6	Adaptive selection drives TRPP3 loss-of-function in an Ethiopian population. Scientific Reports, 2020, 10, 20999.	3.3	2
7	Rare CACNA1A mutations leading to congenital ataxia. Pflugers Archiv European Journal of Physiology, 2020, 472, 791-809.	2.8	18
8	Piezo2 channel regulates RhoA and actin cytoskeleton to promote cell mechanobiological responses. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1925-1930.	7.1	158
9	Cannabis Users Show Enhanced Expression of CB1-5HT2A Receptor Heteromers in Olfactory Neuroepithelium Cells. Molecular Neurobiology, 2018, 55, 6347-6361.	4.0	34
10	Stroke-Like Episodes and Cerebellar Syndrome in Phosphomannomutase Deficiency (PMM2-CDG): Evidence for Hypoglycosylation-Driven Channelopathy. International Journal of Molecular Sciences, 2018, 19, 619.	4.1	40
11	Functional coupling of GABA _{A/B} receptors and the channel TRPV4 mediates rapid progesterone signaling in the oviduct. Science Signaling, 2018, 11, .	3.6	13
12	Cross talk betweenÎ²subunits, intracellular Ca²⁺signaling, and SNAREs in the modulation of Ca_V2.1 channel steadyâ€state inactivation. Physiological Reports, 2018, 6, e13557.	1.7	8
13	Missense mutations of CACNA1A are a frequent cause of autosomal dominant nonprogressive congenital ataxia. European Journal of Paediatric Neurology, 2017, 21, 450-456.	1.6	37
14	Structural determinants of 5â€²,6â€²-epoxyeicosatrienoic acid binding to and activation of TRPV4 channel. Scientific Reports, 2017, 7, 10522.	3.3	53
15	Vascular Reactivity Profile of Novel K_{Ca}3.1â€Selective Positiveâ€Gating Modulators in the Coronary Vascular Bed. Basic and Clinical Pharmacology and Toxicology, 2016, 119, 184-192.	2.5	6
16	Crosstalk Between Beta Subunits, Intracellular Ca2+-Signaling and SNAREs in the Modulation of Cav2.1 Channel Steady-State Inactivation. Biophysical Journal, 2016, 110, 444a.	0.5	0
17	RING1B contributes to Ewing sarcoma development by repressing the NaV1.6 sodium channel and the NF-ÎºB pathway, independently of the fusion oncoprotein. Oncotarget, 2016, 7, 46283-46300.	1.8	12
18	A Single Amino Acid Deletion (Î”F1502) in the S6 Segment of CaV2.1 Domain III Associated with Congenital Ataxia Increases Channel Activity and Promotes Ca2+ Influx. PLoS ONE, 2015, 10, e0146035.	2.5	22

#	Article	IF	Citations
19	Tungstate-Targeting of BKÎ±Î²1 Channels Tunes ERK Phosphorylation and Cell Proliferation in Human Vascular Smooth Muscle. PLoS ONE, 2015, 10, e0118148.	2.5	11
20	DYRK1A-mediated phosphorylation of GluN2A at Ser1048 regulates the surface expression and channel activity of GluN1/GluN2A receptors. Frontiers in Cellular Neuroscience, 2014, 8, 331.	3.7	39
21	BK channel activation by tungstate requires the Î²1 subunit extracellular loop residues essential to modulate voltage sensor function and channel gating. Pflugers Archiv European Journal of Physiology, 2014, 466, 1365-1375.	2.8	7
22	A loss-of-function CACNA1A mutation causing benign paroxysmal torticollis of infancy. European Journal of Paediatric Neurology, 2014, 18, 430-433.	1.6	36
23	Screening of <scp>CACNA1A</scp> and <scp>ATP1A2</scp> genes in hemiplegic migraine: clinical, genetic, and functional studies. Molecular Genetics & Genomic Medicine, 2013, 1, 206-222.	1.2	35
24	TRPM5-mediated calcium uptake regulates mucin secretion from human colon goblet cells. ELife, 2013, 2, e00658.	6.0	49
25	Tungstate activates BK channels in a Î² subunit- and Mg2+-dependent manner: relevance for arterial vasodilatation. Cardiovascular Research, 2012, 95, 29-38.	3.8	12
26	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
27	SNP variants within the vanilloid TRPV1 and TRPV3 receptor genes are associated with migraine in the Spanish population. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2012, 159B, 94-103.	1.7	71
28	A mutation in the first intracellular loop of CACNA1A prevents P/Q channel modulation by SNARE proteins and lowers exocytosis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1672-1677.	7.1	23
29	A loss-of-function nonsynonymous polymorphism in the osmoregulatory TRPV4 gene is associated with human hyponatremia. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14034-14039.	7.1	95
30	KCNE4 suppresses Kv1.3 currents by modulating trafficking, surface expression and channel gating. Journal of Cell Science, 2009, 122, 3738-3748.	2.0	64
31	The hemiplegic migraine-associated Y1245C mutation in CACNA1A results in a gain of channel function due to its effect on the voltage sensor and G-protein-mediated inhibition. Pflugers Archiv European Journal of Physiology, 2009, 458, 489-502.	2.8	36
32	Contribution of syntaxin 1A to the genetic susceptibility to migraine: A caseâ€“control association study in the Spanish population. Neuroscience Letters, 2009, 455, 105-109.	2.1	11
33	Late-onset episodic ataxia type 2 associated with a novel loss-of-function mutation in the CACNA1A gene. Journal of the Neurological Sciences, 2009, 280, 10-14.	0.6	36
34	Functional coupling of TRPV4 cationic channel and large conductance, calcium-dependent potassium channel in human bronchial epithelial cell lines. Pflugers Archiv European Journal of Physiology, 2008, 457, 149-159.	2.8	63
35	IP3 sensitizes TRPV4 channel to the mechano- and osmotransducing messenger 5â€²-6â€²-epoxyeicosatrienoic acid. Journal of Cell Biology, 2008, 181, 143-155.	5.2	131
36	Genetic variation in the KCNMA1 potassium channel Î± subunit as risk factor for severe essential hypertension and myocardial infarction. Journal of Hypertension, 2008, 26, 2147-2153.	0.5	43

#	Article	IF	Citations
37	IP₃sensitizes TRPV4 channel to the mechano- and osmotransducing messenger 5â€²-6â€²-epoxyeicosatrienoic acid. Journal of General Physiology, 2008, 131, i2-i2.	1.9	22
38	Human TRPV4 Channel Splice Variants Revealed a Key Role of Ankyrin Domains in Multimerization and Trafficking. Journal of Biological Chemistry, 2006, 281, 1580-1586.	3.4	160
39	Protective Effect of the KCNMB1 E65K Genetic Polymorphism Against Diastolic Hypertension in Aging Women and Its Relevance to Cardiovascular Risk. Circulation Research, 2005, 97, 1360-1365.	4.5	78
40	TRPV4 channel is involved in the coupling of fluid viscosity changes to epithelial ciliary activity. Journal of Cell Biology, 2005, 168, 869-874.	5.2	199
41	Swelling-activated Ca2+ Entry via TRPV4 Channel Is Defective in Cystic Fibrosis Airway Epithelia. Journal of Biological Chemistry, 2004, 279, 54062-54068.	3.4	159
42	Swelling-Activated Calcium-Dependent Potassium Channels In Airway Epithelial Cells. , 2004, , 388-389.		0
43	Gain-of-function mutation in the KCNMB1 potassium channel subunit is associated with low prevalence of diastolic hypertension. Journal of Clinical Investigation, 2004, 113, 1032-1039.	8.2	155
44	Gain-of-function mutation in the KCNMB1 potassium channel subunit is associated with low prevalence of diastolic hypertension. Journal of Clinical Investigation, 2004, 113, 1032-1039.	8.2	110
45	Plasma Membrane Voltage-dependent Anion Channel Mediates Antiestrogen-activated Maxi Clâ€“ Currents in C1300 Neuroblastoma Cells. Journal of Biological Chemistry, 2003, 278, 33284-33289.	3.4	57
46	Constitutive Activation of G-proteins by Polycystin-1 Is Antagonized by Polycystin-2. Journal of Biological Chemistry, 2002, 277, 11276-11283.	3.4	176
47	Maxi K⁺ channel mediates regulatory volume decrease response in a human bronchial epithelial cell line. American Journal of Physiology - Cell Physiology, 2002, 283, C1705-C1714.	4.6	99
48	Multiple pertussis toxin-sensitive G-proteins can couple receptors to GIRK channels in rat sympathetic neurons when expressed heterologously, but only native Gi-proteins do soin situ. European Journal of Neuroscience, 2001, 14, 283-292.	2.6	30
49	Selective activation of heterologously expressed G protein-gated K+channels by M2muscarinic receptors in rat sympathetic neurones. Journal of Physiology, 1999, 515, 631-637.	2.9	48
50	Tricyclic antidepressants block cholinergic nicotinic receptors and ATP secretion in bovine chromaffin cells. FEBS Letters, 1997, 418, 39-42.	2.8	25
51	Ï‰-Conotoxin GVIA blocks nicotine-induced catecholamine secretion by blocking the nicotinic receptor-activated inward currents in bovine chromaffin cells. Neuroscience Letters, 1995, 191, 59-62.	2.1	15
52	Ï‰-agatoxin IVA blocks nicotinic receptor channels in bovine chromaffin cells. FEBS Letters, 1995, 362, 15-18.	2.8	15