

# JosÃ© M FernÃ¡ndez-FernÃ¡ndez

## List of Publications by Year in descending order

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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	TRPV4 channel is involved in the coupling of fluid viscosity changes to epithelial ciliary activity. <i>Journal of Cell Biology</i> , 2005, 168, 869-874.	5.2	199
2	Constitutive Activation of G-proteins by Polycystin-1 Is Antagonized by Polycystin-2. <i>Journal of Biological Chemistry</i> , 2002, 277, 11276-11283.	3.4	176
3	Human TRPV4 Channel Splice Variants Revealed a Key Role of Ankyrin Domains in Multimerization and Trafficking. <i>Journal of Biological Chemistry</i> , 2006, 281, 1580-1586.	3.4	160
4	Swelling-activated Ca <sup>2+</sup> Entry via TRPV4 Channel Is Defective in Cystic Fibrosis Airway Epithelia. <i>Journal of Biological Chemistry</i> , 2004, 279, 54062-54068.	3.4	159
5	Piezo2 channel regulates RhoA and actin cytoskeleton to promote cell mechanobiological responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1925-1930.	7.1	158
6	Gain-of-function mutation in the KCNMB1 potassium channel subunit is associated with low prevalence of diastolic hypertension. <i>Journal of Clinical Investigation</i> , 2004, 113, 1032-1039.	8.2	155
7	IP3 sensitizes TRPV4 channel to the mechano- and osmotransducing messenger 5 $\alpha$ - $\Delta^2$ -6 $\alpha$ -epoxyeicosatrienoic acid. <i>Journal of Cell Biology</i> , 2008, 181, 143-155.	5.2	131
8	A Cav3.2/Syntaxin-1A Signaling Complex Controls T-type Channel Activity and Low-threshold Exocytosis. <i>Journal of Biological Chemistry</i> , 2012, 287, 2810-2818.	3.4	110
9	Gain-of-function mutation in the KCNMB1 potassium channel subunit is associated with low prevalence of diastolic hypertension. <i>Journal of Clinical Investigation</i> , 2004, 113, 1032-1039.	8.2	110
10	Maxi K <sup>+</sup> channel mediates regulatory volume decrease response in a human bronchial epithelial cell line. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 283, C1705-C1714.	4.6	99
11	A loss-of-function nonsynonymous polymorphism in the osmoregulatory TRPV4 gene is associated with human hyponatremia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14034-14039.	7.1	95
12	Protective Effect of the KCNMB1 E65K Genetic Polymorphism Against Diastolic Hypertension in Aging Women and Its Relevance to Cardiovascular Risk. <i>Circulation Research</i> , 2005, 97, 1360-1365.	4.5	78
13	SNP variants within the vanilloid <i>TRPV1</i> and <i>TRPV3</i> receptor genes are associated with migraine in the Spanish population. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2012, 159B, 94-103.	1.7	71
14	KCNE4 suppresses Kv1.3 currents by modulating trafficking, surface expression and channel gating. <i>Journal of Cell Science</i> , 2009, 122, 3738-3748.	2.0	64
15	Functional coupling of TRPV4 cationic channel and large conductance, calcium-dependent potassium channel in human bronchial epithelial cell lines. <i>Pflügers Archiv European Journal of Physiology</i> , 2008, 457, 149-159.	2.8	63
16	Plasma Membrane Voltage-dependent Anion Channel Mediates Antiestrogen-activated Maxi Cl <sup>-</sup> Currents in C1300 Neuroblastoma Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 33284-33289.	3.4	57
17	Structural determinants of 5 $\alpha$ - $\Delta^2$ -6 $\alpha$ -epoxyeicosatrienoic acid binding to and activation of TRPV4 channel. <i>Scientific Reports</i> , 2017, 7, 10522.	3.3	53
18	TRPM5-mediated calcium uptake regulates mucin secretion from human colon goblet cells. <i>ELife</i> , 2013, 2, e00658.	6.0	49

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19	Selective activation of heterologously expressed G protein-gated K <sup>+</sup> channels by M2 muscarinic receptors in rat sympathetic neurones. <i>Journal of Physiology</i> , 1999, 515, 631-637.	2.9	48
20	Genetic variation in the KCNMA1 potassium channel $\beta$ subunit as risk factor for severe essential hypertension and myocardial infarction. <i>Journal of Hypertension</i> , 2008, 26, 2147-2153.	0.5	43
21	Stroke-Like Episodes and Cerebellar Syndrome in Phosphomannomutase Deficiency (PMM2-CDG): Evidence for Hypoglycosylation-Driven Channelopathy. <i>International Journal of Molecular Sciences</i> , 2018, 19, 619.	4.1	40
22	DYRK1A-mediated phosphorylation of GluN2A at Ser1048 regulates the surface expression and channel activity of GluN1/GluN2A receptors. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 331.	3.7	39
23	Missense mutations of CACNA1A are a frequent cause of autosomal dominant nonprogressive congenital ataxia. <i>European Journal of Paediatric Neurology</i> , 2017, 21, 450-456.	1.6	37
24	Mitostasis, Calcium and Free Radicals in Health, Aging and Neurodegeneration. <i>Biomolecules</i> , 2021, 11, 1012.	4.0	37
25	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. <i>Pflugers Archiv European Journal of Physiology</i> , 2009, 458, 489-502.	2.8	36
26	Late-onset episodic ataxia type 2 associated with a novel loss-of-function mutation in the CACNA1A gene. <i>Journal of the Neurological Sciences</i> , 2009, 280, 10-14.	0.6	36
27	A loss-of-function CACNA1A mutation causing benign paroxysmal torticollis of infancy. <i>European Journal of Paediatric Neurology</i> , 2014, 18, 430-433.	1.6	36
28	Screening of CACNA1A and ATP1A2 genes in hemiplegic migraine: clinical, genetic, and functional studies. <i>Molecular Genetics &amp; Genomic Medicine</i> , 2013, 1, 206-222.	1.2	35
29	Cannabis Users Show Enhanced Expression of CB1-5HT2A Receptor Heteromers in Olfactory Neuroepithelium Cells. <i>Molecular Neurobiology</i> , 2018, 55, 6347-6361.	4.0	34
30	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 so in situ. <i>European Journal of Neuroscience</i> , 2001, 14, 283-292.	2.6	30
31	Tricyclic antidepressants block cholinergic nicotinic receptors and ATP secretion in bovine chromaffin cells. <i>FEBS Letters</i> , 1997, 418, 39-42.	2.8	25
32	A mutation in the first intracellular loop of CACNA1A prevents P/Q channel modulation by SNARE proteins and lowers exocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1672-1677.	7.1	23
33	A Single Amino Acid Deletion (F1502) in the S6 Segment of CaV2.1 Domain III Associated with Congenital Ataxia Increases Channel Activity and Promotes Ca <sup>2+</sup> Influx. <i>PLoS ONE</i> , 2015, 10, e0146035.	2.5	22
34	IP <sub>3</sub> sensitizes TRPV4 channel to the mechano- and osmotransducing messenger 5 $\alpha$ - $\Delta^2$ -epoxyeicosatrienoic acid. <i>Journal of General Physiology</i> , 2008, 131, i2-i2.	1.9	22
35	Rare CACNA1A mutations leading to congenital ataxia. <i>Pflugers Archiv European Journal of Physiology</i> , 2020, 472, 791-809.	2.8	18
36	$\alpha$ -Conotoxin GVIA blocks nicotine-induced catecholamine secretion by blocking the nicotinic receptor-activated inward currents in bovine chromaffin cells. <i>Neuroscience Letters</i> , 1995, 191, 59-62.	2.1	15

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37	Î²-agatoxin IVA blocks nicotinic receptor channels in bovine chromaffin cells. FEBS Letters, 1995, 362, 15-18.	2.8	15
38	Functional coupling of GABA <sub>A/B</sub> receptors and the channel TRPV4 mediates rapid progesterone signaling in the oviduct. Science Signaling, 2018, 11, .	3.6	13
39	Tungstate activates BK channels in a Î² subunit- and Mg <sup>2+</sup> -dependent manner: relevance for arterial vasodilatation. Cardiovascular Research, 2012, 95, 29-38.	3.8	12
40	RING1B contributes to Ewing sarcoma development by repressing the Nav1.6 sodium channel and the NF-Î²B pathway, independently of the fusion oncoprotein. Oncotarget, 2016, 7, 46283-46300.	1.8	12
41	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
42	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
43	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
44	Cross talk between Î² subunits, intracellular Ca <sup>2+</sup> signaling, and SNAREs in the modulation of Ca <sub>V</sub> 2.1 channel steadyâ€“state inactivation. Physiological Reports, 2018, 6, e13557.	1.7	8
45	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
46	Vascular Reactivity Profile of Novel K <sub>Ca</sub> 3.1â€“Selective Positiveâ€“Gating Modulators in the Coronary Vascular Bed. Basic and Clinical Pharmacology and Toxicology, 2016, 119, 184-192.	2.5	6
47	CACNA1A Mutations Causing Early Onset Ataxia: Profiling Clinical, Dysmorphic and Structural-Functional Findings. International Journal of Molecular Sciences, 2021, 22, 5180.	4.1	5
48	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
49	Adaptive selection drives TRPP3 loss-of-function in an Ethiopian population. Scientific Reports, 2020, 10, 20999.	3.3	2
50	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
51	Swelling-Activated Calcium-Dependent Potassium Channels In Airway Epithelial Cells. , 2004, , 388-389.		0
52	Crosstalk Between Beta Subunits, Intracellular Ca <sup>2+</sup> -Signaling and SNAREs in the Modulation of Cav2.1 Channel Steady-State Inactivation. Biophysical Journal, 2016, 110, 444a.	0.5	0