

Ricardo Felix

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113
papers

3,451
citations

31
h-index

54
g-index

114
ext. papers

3,772
ext. citations

4.2
avg, IF

4.94
L-index

#	Paper	IF	Citations
113	The mouse stargazer gene encodes a neuronal Ca ²⁺ -channel gamma subunit. <i>Nature Genetics</i> , 1998 , 19, 340-7	36.3	506
112	Ion transport in sperm signaling. <i>Developmental Biology</i> , 2001 , 240, 1-14	3.1	158
111	Dissection of functional domains of the voltage-dependent Ca ²⁺ channel alpha2delta subunit. <i>Journal of Neuroscience</i> , 1997 , 17, 6884-91	6.6	149
110	Identification of mouse trp homologs and lipid rafts from spermatogenic cells and sperm. <i>FEBS Letters</i> , 2001 , 509, 119-25	3.8	141
109	Calcium channels and Ca ²⁺ fluctuations in sperm physiology. <i>International Review of Cytology</i> , 2005 , 243, 79-172		120
108	Expression and subunit interaction of voltage-dependent Ca ²⁺ channels in PC12 cells. <i>Journal of Neuroscience</i> , 1996 , 16, 7557-65	6.6	102
107	Biochemical and biophysical evidence for gamma 2 subunit association with neuronal voltage-activated Ca ²⁺ channels. <i>Journal of Biological Chemistry</i> , 2001 , 276, 32917-24	5.4	99
106	Extracellular interaction of the voltage-dependent Ca ²⁺ channel alpha2delta and alpha1 subunits. <i>Journal of Biological Chemistry</i> , 1997 , 272, 18508-12	5.4	93
105	Transient receptor potential (TRPC) channels in human sperm: expression, cellular localization and involvement in the regulation of flagellar motility. <i>FEBS Letters</i> , 2003 , 541, 69-74	3.8	86
104	Inwardly rectifying K(+) channels in spermatogenic cells: functional expression and implication in sperm capacitation. <i>Developmental Biology</i> , 2001 , 234, 261-74	3.1	83
103	ZD7288 inhibits low-threshold Ca(2+) channel activity and regulates sperm function. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 311, 187-92	3.4	58
102	Expression and differential cell distribution of low-threshold Ca(2+) channels in mammalian male germ cells and sperm. <i>FEBS Letters</i> , 2004 , 563, 87-92	3.8	55
101	Voltage-dependent Ca(2+) channel subunit expression and immunolocalization in mouse spermatogenic cells and sperm. <i>FEBS Letters</i> , 1999 , 462, 171-6	3.8	53
100	Intramembrane charge movement associated with endogenous K+ channel activity in HEK-293 cells. <i>Cellular and Molecular Neurobiology</i> , 2004 , 24, 317-30	4.6	51
99	Two new scorpion toxins that target voltage-gated Ca ²⁺ and Na ⁺ channels. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 299, 562-8	3.4	50
98	Constitutive and ghrelin-dependent GHSR1a activation impairs CaV2.1 and CaV2.2 currents in hypothalamic neurons. <i>Journal of General Physiology</i> , 2015 , 146, 205-19	3.4	46
97	Dual regulation of the T-type Ca(2+) current by serum albumin and beta-estradiol in mammalian spermatogenic cells. <i>FEBS Letters</i> , 2000 , 475, 251-6	3.8	45

96	Molecular regulation of voltage-gated Ca ²⁺ channels. <i>Journal of Receptor and Signal Transduction Research</i> , 2005 , 25, 57-71	2.6	44
95	The S218L familial hemiplegic migraine mutation promotes deinhibition of Ca _v 2.1 calcium channels during direct G-protein regulation. <i>Pflugers Archiv European Journal of Physiology</i> , 2008 , 457, 315-26	4.6	43
94	KATP channels in mouse spermatogenic cells and sperm, and their role in capacitation. <i>Developmental Biology</i> , 2006 , 289, 395-405	3.1	43
93	Evidence for a 95 kDa short form of the alpha1A subunit associated with the omega-conotoxin MVIIIC receptor of the P/Q-type Ca ²⁺ channels. <i>Journal of Neuroscience</i> , 1998 , 18, 641-7	6.6	41
92	Ghrelin inhibits proliferation and increases T-type Ca ²⁺ channel expression in PC-3 human prostate carcinoma cells. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 403, 24-9	3.4	40
91	Insights from mouse models of absence epilepsy into Ca ²⁺ channel physiology and disease etiology. <i>Cellular and Molecular Neurobiology</i> , 2002 , 22, 103-20	4.6	38
90	Long-term regulation of calcium channels in clonal pituitary cells by epidermal growth factor, insulin, and glucocorticoids. <i>Journal of General Physiology</i> , 1994 , 104, 1019-38	3.4	38
89	Down-regulation of N-type voltage-activated Ca ²⁺ channels by gabapentin. <i>Cellular and Molecular Neurobiology</i> , 2002 , 22, 185-90	4.6	37
88	Calmodulin antagonists inhibit T-type Ca ²⁺ currents in mouse spermatogenic cells and the zona pellucida-induced sperm acrosome reaction. <i>Developmental Biology</i> , 2001 , 236, 210-9	3.1	37
87	Molecular physiology and pathology of Ca ²⁺ -conducting channels in the plasma membrane of mammalian sperm. <i>Reproduction</i> , 2005 , 129, 251-62	3.8	34
86	The novel GABA adamantane derivative (AdGABA): design, synthesis, and activity relationship with gabapentin. <i>Bioorganic and Medicinal Chemistry</i> , 2005 , 13, 2791-8	3.4	34
85	Long-term regulation of voltage-gated Ca ²⁺ channels by gabapentin. <i>FEBS Letters</i> , 2002 , 528, 177-82	3.8	34
84	Identification of a disulfide bridge essential for structure and function of the voltage-gated Ca ²⁺ channel $\alpha_1\beta_1$ auxiliary subunit. <i>Cell Calcium</i> , 2012 , 51, 22-30	4	32
83	The β subunit containing GABA _A receptors contribute to chronic pain. <i>Pain</i> , 2016 , 157, 613-626	8	32
82	Histamine-induced Ca ²⁺ entry in human astrocytoma U373 MG cells: evidence for involvement of store-operated channels. <i>Journal of Neuroscience Research</i> , 2008 , 86, 3456-68	4.4	31
81	Scorpion toxins that block T-type Ca ²⁺ channels in spermatogenic cells inhibit the sperm acrosome reaction. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 300, 408-14	3.4	30
80	Channelopathies: ion channel defects linked to heritable clinical disorders. <i>Journal of Medical Genetics</i> , 2000 , 37, 729-40	5.8	30
79	Reversibility of the Ca ²⁺ channel alpha(1)-beta subunit interaction. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 277, 729-35	3.4	30

78	Cdk5-Dependent Phosphorylation of Ca _v 3.2 T-Type Channels: Possible Role in Nerve Ligation-Induced Neuropathic Allodynia and the Compound Action Potential in Primary Afferent C Fibers. <i>Journal of Neuroscience</i> , 2020 , 40, 283-296	6.6	29
77	Adenosine Stimulate Proliferation and Migration in Triple Negative Breast Cancer Cells. <i>PLoS ONE</i> , 2016 , 11, e0167445	3.7	29
76	Glycosylation of asparagines 136 and 184 is necessary for the alpha2delta subunit-mediated regulation of voltage-gated Ca ²⁺ channels. <i>FEBS Letters</i> , 2004 , 576, 21-6	3.8	28
75	The alpha(2)delta subunit augments functional expression and modifies the pharmacology of Ca(V) _v 1.3 L-type channels. <i>Cell Calcium</i> , 2009 , 46, 282-92	4	26
74	Functional coupling of Rab3-interacting molecule 1 (RIM1) and L-type Ca ²⁺ channels in insulin release. <i>Journal of Biological Chemistry</i> , 2011 , 286, 15757-65	5.4	26
73	Familial hemiplegic migraine type 1 mutations W1684R and V1696I alter G protein-mediated regulation of Ca(V) _v 2.1 voltage-gated calcium channels. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2012 , 1822, 1238-46	6.9	25
72	Extrasynaptic GABA(A) receptors in the brainstem and spinal cord: structure and function. <i>Current Pharmaceutical Design</i> , 2013 , 19, 4485-97	3.3	25
71	Recombinant human ZP3-induced sperm acrosome reaction: evidence for the involvement of T- and L-type voltage-gated calcium channels. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 395, 530-4	3.4	24
70	Maitotoxin potently promotes Ca ²⁺ influx in mouse spermatogenic cells and sperm, and induces the acrosome reaction. <i>Journal of Cellular Physiology</i> , 2006 , 206, 449-56	7	24
69	Proteolytic cleavage of the voltage-gated Ca ²⁺ channel alpha2delta subunit: structural and functional features. <i>European Journal of Neuroscience</i> , 2007 , 25, 1705-10	3.5	23
68	Inhibition of recombinant N-type Ca(V) channels by the gamma 2 subunit involves unfolded protein response (UPR)-dependent and UPR-independent mechanisms. <i>Journal of Neuroscience</i> , 2007 , 27, 3317-27	6.6	23
67	Identification of distinct K ⁺ channels in mouse spermatogenic cells and sperm. <i>Zygote</i> , 2002 , 10, 183-8	1.6	23
66	Leptin increases L-type Ca ²⁺ channel expression and GnRH-stimulated LH release in LbetaT2 gonadotropes. <i>Molecular and Cellular Endocrinology</i> , 2009 , 298, 57-65	4.4	22
65	Distinct properties and differential beta subunit regulation of two C-terminal isoforms of the P/Q-type Ca(2+)-channel alpha(1A) subunit. <i>European Journal of Neuroscience</i> , 2001 , 14, 987-97	3.5	21
64	Regulation of high-voltage-activated Ca channel function, trafficking, and membrane stability by auxiliary subunits. <i>Environmental Sciences Europe</i> , 2013 , 2, 207-220	5	20
63	Rim1 modulates direct G-protein regulation of Ca(v) _v 2.2 channels. <i>Pflugers Archiv European Journal of Physiology</i> , 2011 , 461, 447-59	4.6	20
62	Two PEST-like motifs regulate Ca ²⁺ /calpain-mediated cleavage of the CaVbeta3 subunit and provide important determinants for neuronal Ca ²⁺ channel activity. <i>European Journal of Neuroscience</i> , 2006 , 23, 2311-20	3.5	20
61	CaV _v 2.2 channel cell surface expression is regulated by the light chain 1 (LC1) of the microtubule-associated protein B (MAP1B) via UBE2L3-mediated ubiquitination and degradation. <i>Pflugers Archiv European Journal of Physiology</i> , 2014 , 466, 2113-26	4.6	17

60	Functional interactions between voltage-gated Ca(2+) channels and Rab3-interacting molecules (RIMs): new insights into stimulus-secretion coupling. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 551-8	3.8	17
59	Tonic inhibition in spinal ventral horn interneurons mediated by β subunit-containing GABA(A) receptors. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 412, 26-31	3.4	17
58	Up-regulation of high voltage-activated Ca(2+) channels in GC somatotropes after long-term exposure to ghrelin and growth hormone releasing peptide-6. <i>Cellular and Molecular Neurobiology</i> , 2008 , 28, 819-31	4.6	17
57	The transcription factors Sox5 and Sox9 regulate Catsper1 gene expression. <i>FEBS Letters</i> , 2014 , 588, 3352-60	3.8	16
56	β GABA(A) receptors mediate primary afferent fiber tonic excitability in the turtle spinal cord. <i>Journal of Neurophysiology</i> , 2013 , 110, 2175-84	3.2	16
55	Ghrelin and GHRP-6 enhance electrical and secretory activity in GC somatotropes. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 358, 59-65	3.4	16
54	Regulation of L-type Ca1.3 channel activity and insulin secretion by the cGMP-PKG signaling pathway. <i>Cell Calcium</i> , 2017 , 66, 1-9	4	15
53	Whole-cell patch-clamp recordings of Ca2+ currents from isolated neonatal mouse dorsal root ganglion (DRG) neurons. <i>Cold Spring Harbor Protocols</i> , 2014 , 2014, 389-95	1.2	15
52	Transforming growth factor-beta1 and bone morphogenetic protein-2 downregulate CaV3.1 channel expression in mouse C2C12 myoblasts. <i>Journal of Cellular Physiology</i> , 2006 , 209, 448-56	7	15
51	Calcium channelopathies. <i>NeuroMolecular Medicine</i> , 2006 , 8, 307-18	4.6	15
50	Molecular characterization of a two-domain form of the neuronal voltage-gated P/Q-type calcium channel alpha(1)2.1 subunit. <i>FEBS Letters</i> , 2002 , 532, 300-8	3.8	15
49	Regulation of neuronal cav3.1 channels by cyclin-dependent kinase 5 (Cdk5). <i>PLoS ONE</i> , 2015 , 10, e0119134	3.7	14
48	GABAA receptors mediate motoneuron tonic inhibition in the turtle spinal cord. <i>Neuroscience</i> , 2011 , 192, 74-80	3.9	13
47	Biochemical and Functional Interplay Between Ion Channels and the Components of the Dystrophin-Associated Glycoprotein Complex. <i>Journal of Membrane Biology</i> , 2018 , 251, 535-550	2.3	13
46	gamma1-dependent down-regulation of recombinant voltage-gated Ca2+ channels. <i>Cellular and Molecular Neurobiology</i> , 2007 , 27, 901-8	4.6	12
45	The MAP1B-LC1/UBE2L3 complex catalyzes degradation of cell surface CaV2.2 channels. <i>Channels</i> , 2014 , 8, 452-7	3	11
44	Transcription factor Sp1 regulates T-type Ca(2+) channel CaV 3.1 gene expression. <i>Journal of Cellular Physiology</i> , 2014 , 229, 551-60	7	11
43	Upregulation of voltage-gated Na+ channels by long-term activation of the ghrelin-growth hormone secretagogue receptor in clonal GC somatotropes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009 , 296, E1148-56	6	11

42	The familial hemiplegic migraine type 1 mutation K1336E affects direct G protein-mediated regulation of neuronal P/Q-type Ca ²⁺ channels. <i>Cephalalgia</i> , 2013 , 33, 398-407	6.1	10
41	Expression and high glucose-mediated regulation of K ⁺ channel interacting protein 3 (KCHIP3) and KV4 channels in retinal Müller glial cells. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 404, 678-83	3.4	10
40	Ubiquitination and proteasome-mediated degradation of voltage-gated Ca ²⁺ channels and potential pathophysiological implications. <i>General Physiology and Biophysics</i> , 2017 , 36, 1-5	2.1	9
39	Anti-allodynic effect of 2-(aminomethyl)adamantane-1-carboxylic acid in a rat model of neuropathic pain: a mechanism dependent on CaV2.2 channel inhibition. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 1797-803	3.4	9
38	Functional expression of T-type Ca ²⁺ channels in spinal motoneurons of the adult turtle. <i>PLoS ONE</i> , 2014 , 9, e108187	3.7	9
37	Molecular cloning and analysis of the Catsper1 gene promoter. <i>Molecular Human Reproduction</i> , 2013 , 19, 336-47	4.4	8
36	Inhibition of recombinant N-type and native high voltage-gated neuronal Ca ²⁺ channels by AdGABA: mechanism of action studies. <i>Toxicology and Applied Pharmacology</i> , 2011 , 250, 270-7	4.6	8
35	Toxins targeting voltage-activated Ca ²⁺ channels and their potential biomedical applications. <i>Current Topics in Medicinal Chemistry</i> , 2015 , 15, 604-16	3	8
34	The role of cyclin-dependent kinase 5 in neuropathic pain. <i>Pain</i> , 2020 , 161, 2674-2689	8	8
33	Extrasynaptic β subunit-containing GABAA receptors modulate excitability in turtle spinal motoneurons. <i>PLoS ONE</i> , 2014 , 9, e115378	3.7	7
32	Whole-cell patch-clamp recording of recombinant voltage-sensitive Ca ²⁺ channels heterologously expressed in HEK-293 cells. <i>Cold Spring Harbor Protocols</i> , 2014 , 2014, 396-401	1.2	7
31	Insulin-mediated upregulation of T-type Ca ²⁺ currents in GH3 cells is mediated by increased endosomal recycling and incorporation of surface membrane Cav3.1 channels. <i>Cell Calcium</i> , 2012 , 52, 377-87	4	7
30	G-protein-coupled GABAB receptors inhibit Ca ²⁺ channels and modulate transmitter release in descending turtle spinal cord terminal synapsing motoneurons. <i>Journal of Comparative Neurology</i> , 2007 , 503, 642-54	3.4	7
29	Myotonic dystrophy CTG repeat expansion alters Ca ²⁺ channel functional expression in PC12 cells. <i>FEBS Letters</i> , 2007 , 581, 4430-8	3.8	7
28	N- and P/Q-type Ca ²⁺ channels regulate synaptic efficacy between spinal dorsolateral funiculus terminals and motoneurons. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 317, 551-7	3.4	7
27	Involvement of Parkin in the ubiquitin proteasome system-mediated degradation of N-type voltage-gated Ca ²⁺ channels. <i>PLoS ONE</i> , 2017 , 12, e0185289	3.7	7
26	Emerging Role of CaV1.2 Channels in Proliferation and Migration in Distinct Cancer Cell Lines. <i>Oncology</i> , 2017 , 93, 1-10	3.6	6
25	Epidermal Growth Factor Potentiates Migration of MDA-MB 231 Breast Cancer Cells by Increasing Nav1.5 Channel Expression. <i>Oncology</i> , 2019 , 97, 373-382	3.6	6

24	Transcription Factor Sp1 Regulates the Expression of Calcium Channel α -1 Subunit in Neuropathic Pain. <i>Neuroscience</i> , 2019 , 412, 207-215	3.9	6
23	Isolation and characterization of the 5'-upstream region of the human voltage-gated Ca(2+) channel α -1 auxiliary subunit gene: promoter analysis and regulation by transcription factor Sp1. <i>Pflugers Archiv European Journal of Physiology</i> , 2013 , 465, 819-28	4.6	6
22	Tonically Active GABA Receptors Reduce Motoneuron Excitability and Decrease the Monosynaptic Reflex. <i>Frontiers in Cellular Neuroscience</i> , 2017 , 11, 283	6.1	6
21	Transcriptional regulation of voltage-gated Ca channels. <i>Acta Physiologica</i> , 2018 , 222, e12883	5.6	5
20	Leptin regulation of inward membrane currents, electrical activity and LH release in isolated bovine gonadotropes. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 491, 53-58	3.4	5
19	Patch-clamp recording of voltage-sensitive Ca ²⁺ channels. <i>Cold Spring Harbor Protocols</i> , 2014 , 2014, 329-52	5.2	5
18	Hyperglycemia induces early upregulation of the calcium sensor KCHIP3/DREAM/calsenilin in the rat retina. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 418, 420-5	3.4	5
17	Regulation of Ca ^v 3.1 channels by glucocorticoids. <i>Cellular and Molecular Neurobiology</i> , 2009 , 29, 1265-74	4.6	5
16	Atypical Ca ²⁺ currents in chromaffin cells from SHR and WKY rat strains result from the deficient expression of a splice variant of the α D Ca ²⁺ channel. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H467-78	5.2	5
15	Arrhythmogenic effect of a crude extract from sea anemone <i>Condylactis gigantea</i> : possible involvement of rErg1 channels. <i>Toxicon</i> , 2013 , 67, 47-54	2.8	4
14	Molecular and functional interplay of voltage-gated Ca ^v channels with the cytoskeleton. <i>Current Molecular Pharmacology</i> , 2015 , 8, 69-80	3.7	4
13	Involvement of R-type Ca ²⁺ channels in neurotransmitter release from spinal dorsolateral funiculus terminals synapsing motoneurons. <i>Journal of Comparative Neurology</i> , 2009 , 513, 188-96	3.4	4
12	γ Aminobutyric acid (GABA) from satellite glial cells tonically depresses the excitability of primary afferent fibers. <i>Neuroscience Research</i> , 2021 , 170, 50-58	2.9	4
11	Regulation of CATSPER1 expression by the testis-determining gene SRY. <i>PLoS ONE</i> , 2018 , 13, e0205744	3.7	4
10	Ghrelin increases growth hormone production and functional expression of NaV1.1 and Na V1.2 channels in pituitary somatotropes. <i>Endocrine</i> , 2015 , 48, 929-36	4	3
9	Regulation of the voltage-gated Ca channel α -1 subunit expression by the transcription factor Egr-1. <i>Neuroscience Letters</i> , 2018 , 673, 136-141	3.3	3
8	Regulation of the Ca channel α -1 subunit expression by epidermal growth factor via the ERK/ELK-1 signaling pathway. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020 , 319, E232-E244	6	2
7	Cdk5 phosphorylates Ca _v 1.3 channels and regulates GABA-mediated miniature inhibitory post-synaptic currents in striato-nigral terminals. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 524, 255-261	3.4	2

6	Extrasynaptic GABAA Receptors and Tonic Inhibition in Spinal Cord 2014 , 155-178		2
5	L5-6 Spinal Nerve Ligation-induced Neuropathy Changes the Location and Function of Ca Channels and Cdk5 and Affects the Compound Action Potential in Adjacent Intact L4 Afferent Fibers. <i>Neuroscience</i> , 2021 , 471, 20-31	3.9	2
4	The role of spinal cord extrasynaptic GABA receptors in chronic pain. <i>Physiological Reports</i> , 2021 , 9, e14984	2.6	1
3	Ion channel long non-coding RNAs in neuropathic pain.. <i>Pflugers Archiv European Journal of Physiology</i> , 2022 , 474, 457	4.6	1
2	Ion channels and sperm function. <i>Advances in Molecular and Cell Biology</i> , 2004 , 407-431		
1	N-type Ca^{2+} channel regulation by the light chain 1 (LC1) of the microtubule associated protein B (MAP1B). <i>FASEB Journal</i> , 2012 , 26, 695.6	0.9	