

Luis Gandia Juan

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111
papers

3,292
citations

33
h-index

54
g-index

118
ext. papers

3,483
ext. citations

5.7
avg, IF

4.41
L-index

#	Paper	IF	Citations
111	Calcium signaling and exocytosis in adrenal chromaffin cells. <i>Physiological Reviews</i> , 2006 , 86, 1093-131	47.9	267
110	Dihydropyridine BAY-K-8644 activates chromaffin cell calcium channels. <i>Nature</i> , 1984 , 309, 69-71	50.4	242
109	Separation and culture of living adrenaline- and noradrenaline-containing cells from bovine adrenal medullae. <i>Analytical Biochemistry</i> , 1990 , 185, 243-8	3.1	186
108	Sphingosine facilitates SNARE complex assembly and activates synaptic vesicle exocytosis. <i>Neuron</i> , 2009 , 62, 683-94	13.9	121
107	Unmasking the functions of the chromaffin cell alpha7 nicotinic receptor by using short pulses of acetylcholine and selective blockers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 14184-9	11.5	98
106	ATP modulation of calcium channels in chromaffin cells. <i>Journal of Physiology</i> , 1993 , 470, 55-72	3.9	87
105	Q- and L-type Ca ²⁺ channels dominate the control of secretion in bovine chromaffin cells. <i>FEBS Letters</i> , 1994 , 349, 331-7	3.8	85
104	Neuroprotectant minocycline depresses glutamatergic neurotransmission and Ca(2+) signalling in hippocampal neurons. <i>European Journal of Neuroscience</i> , 2007 , 26, 2481-95	3.5	81
103	A physiological view of the central and peripheral mechanisms that regulate the release of catecholamines at the adrenal medulla. <i>Acta Physiologica</i> , 2008 , 192, 287-301	5.6	80
102	Neuroprotection afforded by nicotine against oxygen and glucose deprivation in hippocampal slices is lost in alpha7 nicotinic receptor knockout mice. <i>Neuroscience</i> , 2007 , 145, 866-72	3.9	73
101	Nicotine promotes initiation and progression of KRAS-induced pancreatic cancer via Gata6-dependent dedifferentiation of acinar cells in mice. <i>Gastroenterology</i> , 2014 , 147, 1119-33.e4	13.3	71
100	Calcium-dependent inhibition of L, N, and P/Q Ca ²⁺ channels in chromaffin cells: role of mitochondria. <i>Journal of Neuroscience</i> , 2001 , 21, 2553-60	6.6	67
99	Opioid inhibition of Ca ²⁺ channel subtypes in bovine chromaffin cells: selectivity of action and voltage-dependence. <i>European Journal of Neuroscience</i> , 1996 , 8, 1561-70	3.5	65
98	omega-Agatoxin-IVA-sensitive calcium channels in bovine chromaffin cells. <i>FEBS Letters</i> , 1993 , 336, 259-62	6.2	62
97	Allosteric modulation of alpha 7 nicotinic receptors selectively depolarizes hippocampal interneurons, enhancing spontaneous GABAergic transmission. <i>European Journal of Neuroscience</i> , 2008 , 27, 1097-110	3.5	61
96	Multiple calcium channel subtypes in isolated rat chromaffin cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1995 , 430, 55-63	4.6	61
95	The nicotinic acetylcholine receptor of the bovine chromaffin cell, a new target for dihydropyridines. <i>European Journal of Pharmacology</i> , 1993 , 247, 199-207		55

94	Localized L-type calcium channels control exocytosis in cat chromaffin cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1994 , 427, 348-54	4.6	54
93	Bovine chromaffin cells possess FTX-sensitive calcium channels. <i>Biochemical and Biophysical Research Communications</i> , 1993 , 194, 671-6	3.4	53
92	Calcium channel subtypes in cat chromaffin cells. <i>Journal of Physiology</i> , 1994 , 477, 197-213	3.9	52
91	Re-evaluation of the P/Q Ca ²⁺ channel components of Ba ²⁺ currents in bovine chromaffin cells superfused with solutions containing low and high Ba ²⁺ concentrations. <i>Pflugers Archiv European Journal of Physiology</i> , 1996 , 432, 1030-8	4.6	50
90	Q-type Ca ²⁺ channels are located closer to secretory sites than L-type channels: functional evidence in chromaffin cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1998 , 435, 472-8	4.6	47
89	Voltage-independent autocrine modulation of L-type channels mediated by ATP, opioids and catecholamines in rat chromaffin cells. <i>European Journal of Neuroscience</i> , 1999 , 11, 3574-84	3.5	47
88	Multipotent drugs with cholinergic and neuroprotective properties for the treatment of Alzheimer and neuronal vascular diseases. I. Synthesis, biological assessment, and molecular modeling of simple and readily available 2-aminopyridine-, and 2-chloropyridine-3,5-dicarbonitriles. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 5861-72	3.4	44
87	Synthesis, biological assessment and molecular modeling of new dihydroquinoline-3-carboxamides and dihydroquinoline-3-carbohydrazide derivatives as cholinesterase inhibitors, and Ca channel antagonists. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 1-10	6.8	41
86	Separation of calcium channel current components in mouse chromaffin cells superfused with low- and high-barium solutions. <i>Pflugers Archiv European Journal of Physiology</i> , 1998 , 436, 75-82	4.6	40
85	Separation of two pathways for calcium entry into chromaffin cells. <i>British Journal of Pharmacology</i> , 1991 , 103, 1073-8	8.6	40
84	Cholinergic and neuroprotective drugs for the treatment of Alzheimer and neuronal vascular diseases. II. Synthesis, biological assessment, and molecular modelling of new tacrine analogues from highly substituted 2-aminopyridine-3-carbonitriles. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 122-33	3.4	39
83	Voltage inactivation of Ca ²⁺ entry and secretion associated with N- and P/Q-type but not L-type Ca ²⁺ channels of bovine chromaffin cells. <i>Journal of Physiology</i> , 1999 , 516 (Pt 2), 421-32	3.9	39
82	Relative sensitivities of chromaffin cell calcium channels to organic and inorganic calcium antagonists. <i>Neuroscience Letters</i> , 1987 , 77, 333-8	3.3	39
81	Human adrenal chromaffin cell calcium channels: drastic current facilitation in cell clusters, but not in isolated cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1998 , 436, 696-704	4.6	38
80	Dotarizine versus flunarizine as calcium antagonists in chromaffin cells. <i>British Journal of Pharmacology</i> , 1995 , 114, 369-76	8.6	37
79	Dihydropyridine modulation of the chromaffin cell secretory response. <i>Journal of Neurochemistry</i> , 1987 , 48, 483-90	6	36
78	L-type calcium channels are preferentially coupled to endocytosis in bovine chromaffin cells. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 357, 834-9	3.4	32
77	The effects of 3,4-methylenedioxymethamphetamine (MDMA) on nicotinic receptors: intracellular calcium increase, calpain/caspase 3 activation, and functional upregulation. <i>Toxicology and Applied Pharmacology</i> , 2010 , 244, 344-53	4.6	29

76	Role of the endoplasmic reticulum and mitochondria on quantal catecholamine release from chromaffin cells of control and hypertensive rats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009 , 329, 231-40	4.7	28
75	Single-vesicle catecholamine release has greater quantal content and faster kinetics in chromaffin cells from hypertensive, as compared with normotensive, rats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008 , 324, 685-93	4.7	27
74	Distinct effects of omega-toxins and various groups of Ca(2+)-entry inhibitors on nicotinic acetylcholine receptor and Ca2+ channels of chromaffin cells. <i>European Journal of Pharmacology</i> , 1997 , 320, 249-57	5.3	25
73	Differential effects of the neuroprotectant lubeluzole on bovine and mouse chromaffin cell calcium channel subtypes. <i>British Journal of Pharmacology</i> , 1997 , 122, 275-85	8.6	25
72	A two-dimensional electrophoresis study of phosphorylation and dephosphorylation of chromaffin cell proteins in response to a secretory stimulus. <i>Journal of Neurochemistry</i> , 1988 , 51, 1023-30	6	25
71	Wide-spectrum Ca2+ channel antagonists: lipophilicity, inhibition, and recovery of secretion in chromaffin cells. <i>European Journal of Pharmacology</i> , 1997 , 325, 109-19	5.3	24
70	Permeation by zinc of bovine chromaffin cell calcium channels: relevance to secretion. <i>Pflugers Archiv European Journal of Physiology</i> , 1994 , 429, 231-9	4.6	24
69	Analogies and differences between omega-conotoxins MVIIIC and MVIID: binding sites and functions in bovine chromaffin cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1997 , 435, 55-64	4.6	22
68	Neuroprotection by nicotine in hippocampal slices subjected to oxygen-glucose deprivation: involvement of the alpha7 nAChR subtype. <i>Journal of Molecular Neuroscience</i> , 2006 , 30, 61-2	3.3	22
67	A choline-evoked [Ca2+]c signal causes catecholamine release and hyperpolarization of chromaffin cells. <i>FASEB Journal</i> , 2004 , 18, 1468-70	0.9	20
66	The purinergic P2X7 receptor as a potential drug target to combat neuroinflammation in neurodegenerative diseases. <i>Medicinal Research Reviews</i> , 2020 , 40, 2427-2465	14.4	20
65	Drastic facilitation by alpha-latrotoxin of bovine chromaffin cell exocytosis without measurable enhancement of Ca2+ entry or [Ca2+]i. <i>Journal of Physiology</i> , 1997 , 502 (Pt 3), 481-96	3.9	18
64	Synthesis and pharmacology of alkanediguaniumidinium compounds that block the neuronal nicotinic acetylcholine receptor. <i>Bioorganic and Medicinal Chemistry</i> , 1996 , 4, 1177-83	3.4	18
63	R56865 inhibits catecholamine release from bovine chromaffin cells by blocking calcium channels. <i>British Journal of Pharmacology</i> , 1993 , 110, 1149-55	8.6	18
62	Different sensitivities to dihydropyridines of catecholamine release from cat and ox adrenals. <i>NeuroReport</i> , 1990 , 1, 119-22	1.7	18
61	Differential variations in Ca2+ entry, cytosolic Ca2+ and membrane capacitance upon steady or action potential depolarizing stimulation of bovine chromaffin cells. <i>Acta Physiologica</i> , 2008 , 194, 97-109 ^{5.6}	5.6	17
60	Gramine Derivatives Targeting Ca(2+) Channels and Ser/Thr Phosphatases: A New Dual Strategy for the Treatment of Neurodegenerative Diseases. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 6265-80	8.3	16
59	Calcium entry through slow-inactivating L-type calcium channels preferentially triggers endocytosis rather than exocytosis in bovine chromaffin cells. <i>American Journal of Physiology - Cell Physiology</i> , 2011 , 301, C86-98	5.4	16

58	Depressed excitability and ion currents linked to slow exocytotic fusion pore in chromaffin cells of the SOD1(G93A) mouse model of amyotrophic lateral sclerosis. <i>American Journal of Physiology - Cell Physiology</i> , 2015 , 308, C1-19	5.4	15
57	Autocrine/paracrine modulation of calcium channels in bovine chromaffin cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1998 , 437, 104-13	4.6	15
56	Blockade of nicotinic receptors of bovine adrenal chromaffin cells by nanomolar concentrations of atropine. <i>European Journal of Pharmacology</i> , 2006 , 535, 13-24	5.3	15
55	Synergism between toxin-gamma from Brazilian scorpion <i>Tityus serrulatus</i> and veratridine in chromaffin cells. <i>American Journal of Physiology - Cell Physiology</i> , 1998 , 274, C1745-54	5.4	15
54	Inhibition of nicotinic receptor-mediated responses in bovine chromaffin cells by diltiazem. <i>British Journal of Pharmacology</i> , 1996 , 118, 1301-7	8.6	15
53	Greater cytosolic and mitochondrial calcium transients in adrenal medullary slices of hypertensive, compared with normotensive rats. <i>European Journal of Pharmacology</i> , 2010 , 636, 126-36	5.3	14
52	Dihydropyridine chirality at the chromaffin cell calcium channel. <i>Brain Research</i> , 1987 , 408, 359-62	3.7	14
51	A two-step model for acetylcholine control of exocytosis via nicotinic receptors. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 365, 413-9	3.4	13
50	Melatonin Reduces NLRP3 Inflammasome Activation by Increasing γ nAChR-Mediated Autophagic Flux. <i>Antioxidants</i> , 2020 , 9,	7.1	11
49	Inhibition of N and PQ calcium channels by calcium entry through L channels in chromaffin cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2009 , 458, 795-807	4.6	11
48	Blockade by agmatine of catecholamine release from chromaffin cells is unrelated to imidazoline receptors. <i>European Journal of Pharmacology</i> , 2001 , 417, 99-109	5.3	11
47	Altered regulation of calcium channels and exocytosis in single human pheochromocytoma cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2000 , 440, 253-63	4.6	11
46	Density of apamin-sensitive Ca(2+)-dependent K ⁺ channels in bovine chromaffin cells: relevance to secretion. <i>Biochemical Pharmacology</i> , 1995 , 49, 1459-68	6	11
45	Blocking effects of otilonium on Ca ²⁺ channels and secretion in rat chromaffin cells. <i>European Journal of Pharmacology</i> , 1996 , 298, 199-205	5.3	11
44	Permissive role of sphingosine on calcium-dependent endocytosis in chromaffin cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2010 , 460, 901-14	4.6	10
43	Effects of the neuroprotectant lubeluzole on the cytotoxic actions of veratridine, barium, ouabain and 6-hydroxydopamine in chromaffin cells. <i>British Journal of Pharmacology</i> , 1998 , 124, 1187-96	8.6	10
42	A low nicotine concentration augments vesicle motion and exocytosis triggered by K(+) depolarisation of chromaffin cells. <i>European Journal of Pharmacology</i> , 2008 , 598, 81-6	5.3	10
41	Plasmalemmal sodium-calcium exchanger shapes the calcium and exocytotic signals of chromaffin cells at physiological temperature. <i>American Journal of Physiology - Cell Physiology</i> , 2013 , 305, C160-72	5.4	9

40	Effects of tyramine and calcium on the kinetics of secretion in intact and electroporated chromaffin cells superfused at high speed. <i>Pflugers Archiv European Journal of Physiology</i> , 1995 , 431, 283-96	4.6	9
39	The quantal catecholamine release from mouse chromaffin cells challenged with repeated ACh pulses is regulated by the mitochondrial Na ⁺ /Ca ²⁺ exchanger. <i>Journal of Physiology</i> , 2017 , 595, 2129-2146	3.9	8
38	Selective activation of $\alpha 7$ nicotinic acetylcholine receptor (nAChR $\alpha 7$) inhibits muscular degeneration in mdx dystrophic mice. <i>Brain Research</i> , 2014 , 1573, 27-36	3.7	8
37	A single neuronal nicotinic receptor $\alpha 3\alpha 7\beta 4^*$ is present in the bovine chromaffin cell. <i>Annals of the New York Academy of Sciences</i> , 2002 , 971, 165-7	6.5	8
36	Otilonium: a potent blocker of neuronal nicotinic ACh receptors in bovine chromaffin cells. <i>British Journal of Pharmacology</i> , 1996 , 117, 463-470	8.6	8
35	Hydrogen sulphide facilitates exocytosis by regulating the handling of intracellular calcium by chromaffin cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2018 , 470, 1255-1270	4.6	7
34	N-Benzylpiperidine Derivatives as $\alpha 7$ Nicotinic Receptor Antagonists. <i>ACS Chemical Neuroscience</i> , 2016 , 7, 1157-65	5.7	7
33	The Differential Organization of F-Actin Alters the Distribution of Organelles in Cultured When Compared to Native Chromaffin Cells. <i>Frontiers in Cellular Neuroscience</i> , 2017 , 11, 135	6.1	7
32	Regulation by L-type calcium channels of endocytosis: an overview. <i>Journal of Molecular Neuroscience</i> , 2012 , 48, 360-7	3.3	7
31	Calcium channels for exocytosis in chromaffin cells. <i>Advances in Pharmacology</i> , 1998 , 42, 91-4	5.7	7
30	Activation and blockade by choline of bovine $\alpha 7$ and $\alpha 3\beta 4$ nicotinic receptors expressed in oocytes. <i>European Journal of Pharmacology</i> , 2006 , 535, 53-60	5.3	7
29	Interactions between Ca ²⁺ , PCA50941 and Bay K 8644 in bovine chromaffin cells. <i>European Journal of Pharmacology</i> , 1994 , 268, 293-303		7
28	Distinct patterns of exocytosis elicited by Ca, Sr and Ba in bovine chromaffin cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2018 , 470, 1459-1471	4.6	5
27	Design and synthesis of multipotent 3-aminomethylindoles and 7-azaindoles with enhanced protein phosphatase 2A-activating profile and neuroprotection. <i>European Journal of Medicinal Chemistry</i> , 2018 , 157, 294-309	6.8	5
26	Lower density of L-type and higher density of P/Q-type of calcium channels in chromaffin cells of hypertensive, compared with normotensive rats. <i>European Journal of Pharmacology</i> , 2013 , 706, 25-35	5.3	5
25	Selective block of Ca(2+)-dependent K ⁺ current in crayfish neuromuscular system and chromaffin cells by sea anemone <i>Bunodosoma cangicum</i> venom. <i>Journal of Neuroscience Research</i> , 1995 , 42, 539-46	4.4	5
24	Dual Antidepressant Duloxetine Blocks Nicotinic Receptor Currents, Calcium Signals and Exocytosis in Chromaffin Cells Stimulated with Acetylcholine. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2018 , 367, 28-39	4.7	4
23	Differential effects of forskolin and 1,9-dideoxy-forskolin on nicotinic receptor- and K ⁺ -induced responses in chromaffin cells. <i>European Journal of Pharmacology</i> , 1997 , 329, 189-199	5.3	4

22	Altered excitability and exocytosis in chromaffin cells from the R6/1 mouse model of Huntington's disease is linked to over-expression of mutated huntingtin. <i>Journal of Neurochemistry</i> , 2018 , 147, 454-476	6	4
21	L-type calcium channels in exocytosis and endocytosis of chromaffin cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2018 , 470, 53-60	4.6	3
20	Calcium Channels for Exocytosis and Endocytosis: Pharmacological Modulation 2014 , 1091-1138		3
19	Augmentation of catecholamine release elicited by an <i>Eugenia punicifolia</i> extract in chromaffin cells. <i>Revista Brasileira De Farmacognosia</i> , 2012 , 22, 1-12	2	3
18	Paradoxical facilitation of exocytosis by inhibition of L-type calcium channels of bovine chromaffin cells. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 410, 307-11	3.4	3
17	Preconditioning stimuli that augment chromaffin cell secretion. <i>American Journal of Physiology - Cell Physiology</i> , 2009 , 296, C792-800	5.4	3
16	Computational analysis of the binding ability of heterocyclic and conformationally constrained epibatidine analogs in the neuronal nicotinic acetylcholine receptor. <i>Molecular Diversity</i> , 2010 , 14, 201-11	3.1	3
15	A comparison between acetylcholine-like action potentials and square depolarizing pulses in triggering calcium entry and exocytosis in bovine chromaffin cells. <i>Journal of Molecular Neuroscience</i> , 2006 , 30, 57-8	3.3	3
14	Antimigraine dotarizine blocks P/Q Ca ²⁺ channels and exocytosis in a voltage-dependent manner in chromaffin cells. <i>European Journal of Pharmacology</i> , 2003 , 481, 41-50	5.3	3
13	Otilonium and pinaverium trigger mitochondrial-mediated apoptosis in rat embryo cortical neurons in vitro. <i>NeuroToxicology</i> , 2019 , 70, 99-111	4.4	3
12	Regulation by L channels of Ca ²⁺ -evoked secretory responses in ouabain-treated chromaffin cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2016 , 468, 1779-92	4.6	2
11	Novel synthetic sulfoglycolipid IG20 facilitates exocytosis in chromaffin cells through the regulation of sodium channels. <i>Journal of Neurochemistry</i> , 2015 , 135, 880-96	6	2
10	Multitarget Drugs for Stabilization of Calcium Cycling and Neuroprotection in Neurodegenerative Diseases and Stroke 2012 , 123-200		2
9	(+)-isradipine but not (-)-Bay-K-8644 exhibits voltage-dependent effects on cat adrenal catecholamine release. <i>British Journal of Pharmacology</i> , 1991 , 102, 289-96	8.6	2
8	Serum Amyloid A1/Toll-Like Receptor-4 Axis, an Important Link between Inflammation and Outcome of TBI Patients. <i>Biomedicines</i> , 2021 , 9,	4.8	2
7	Novel sulfoglycolipid IG20 causes neuroprotection by activating the phase II antioxidant response in rat hippocampal slices. <i>Neuropharmacology</i> , 2017 , 116, 110-121	5.5	1
6	Use of transgenic (knockout) mice reveals a site distinct from the alpha _{2A} -adrenoceptors for agmatine in the vas deferens. <i>Pharmacological Reports</i> , 2009 , 61, 325-9	3.9	1
5	Response to Letter to the Editor from Westerink and Hondebrink. <i>Toxicology and Applied Pharmacology</i> , 2010 , 249, 249-250	4.6	1

- 4 Enhancement of secretion by threshold nicotinic stimulation in bovine chromaffin cells. *Journal of Molecular Neuroscience*, **2006**, 30, 81-2 3.3 1
- 3 Modulation of exocytosis by the Na(+)/Ca(2+) exchanger of chromaffin cells. *Annals of the New York Academy of Sciences*, **2002**, 971, 174-7 6.5 1
- 2 and studies for barbinervic acid, a triterpene isolated from that inhibits vasopressor tone. *Natural Product Research*, **2021**, 35, 4870-4875 2.3
- 1 Calcium Channels for Exocytosis and Endocytosis **2014**, 1091-1138