Luis Gandia Juan

List of Publications by Year
in descending order

113	3,783	34	58
papers	citations	h-index	g-index
		117453	138251

119	119	119	2736
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Calcium Signaling and Exocytosis in Adrenal Chromaffin Cells. Physiological Reviews, 2006, 86, 1093-1131.	13.1	309
2	Dihydropyridine BAY-K-8644 activates chromaffin cell calcium channels. Nature, 1984, 309, 69-71.	13.7	262
3	Separation and culture of living adrenaline- and noradrenaline-containing cells from bovine adrenal medullae. Analytical Biochemistry, 1990, 185, 243-248.	1.1	198
4	Sphingosine Facilitates SNARE Complex Assembly and Activates Synaptic Vesicle Exocytosis. Neuron, 2009, 62, 683-694.	3.8	136
5	Unmasking the functions of the chromaffin cell Â7 nicotinic receptor by using short pulses of acetylcholine and selective blockers. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 14184-14189.	3.3	107
6	Q- and L-type Ca2+channels dominate the control of secretion in bovine chromaffin cells. FEBS Letters, 1994, 349, 331-337.	1.3	105
7	ATP modulation of calcium channels in chromaffin cells.. Journal of Physiology, 1993, 470, 55-72.	1.3	102
8	A physiological view of the central and peripheral mechanisms that regulate the release of catecholamines at the adrenal medulla. Acta Physiologica, 2008, 192, 287-301.	1.8	97
9	Neuroprotectant minocycline depresses glutamatergic neurotransmission and Ca²⁺ signalling in hippocampal neurons. European Journal of Neuroscience, 2007, 26, 2481-2495.	1.2	94
10	Nicotine Promotes Initiation and Progression of KRAS-Induced Pancreatic Cancer via Gata6-Dependent Dedifferentiation of Acinar Cells in Mice. Gastroenterology, 2014, 147, 1119-1133.e4.	0.6	89
11	Neuroprotection afforded by nicotine against oxygen and glucose deprivation in hippocampal slices is lost in Î±7 nicotinic receptor knockout mice. Neuroscience, 2007, 145, 866-872.	1.1	75
12	Calcium-Dependent Inhibition of L, N, and P/Q Ca2+Channels in Chromaffin Cells: Role of Mitochondria. Journal of Neuroscience, 2001, 21, 2553-2560.	1.7	74
13	Ï‰-Agatoxin-IVA-sensitive calcium channels in bovine chromaffin cells. FEBS Letters, 1993, 336, 259-262.	1.3	71
14	Multiple calcium channel subtypes in isolated rat chromaffin cells. Pflugers Archiv European Journal of Physiology, 1995, 430, 55-63.	1.3	71
15	Opioid Inhibition of Ca2+Channel Subtypes in Bovine Chromaffin Cells: Selectivity of Action and Voltage-dependence. European Journal of Neuroscience, 1996, 8, 1561-1570.	1.2	69
16	Calcium channel subtypes in cat chromaffin cells.. Journal of Physiology, 1994, 477, 197-213.	1.3	63
17	Allosteric modulation of Î±7 nicotinic receptors selectively depolarizes hippocampal interneurons, enhancing spontaneous GABAergic transmission. European Journal of Neuroscience, 2008, 27, 1097-1110.	1.2	63
18	Re-evaluation of the P/Q Ca2+ channel components of Ba2+ currents in bovine chromaffin cells superfused with solutions containing low and high Ba2+ concentrations. Pflugers Archiv European Journal of Physiology, 1996, 432, 1030-1038.	1.3	61

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19	Localized L-type calcium channels control exocytosis in cat chromaffin cells. Pflugers Archiv European Journal of Physiology, 1994, 427, 348-354.	1.3	60
20	The nicotinic acetylcholine receptor of the bovine chromaffin cell, a new target for dihydropyridines. European Journal of Pharmacology, 1993, 247, 199-207.	2.7	59
21	Voltage-independent autocrine modulation of L-type channels mediated by ATP, opioids and catecholamines in rat chromaffin cells. European Journal of Neuroscience, 1999, 11, 3574-3584.	1.2	57
22	Bovine Chromaffin Cells Posses FTX-Sensitive Calcium Channels. Biochemical and Biophysical Research Communications, 1993, 194, 671-676.	1.0	53
23	Q-type Ca 2+ channels are located closer to secretory sites than L-type channels: functional evidence in chromaffin cells. Pflugers Archiv European Journal of Physiology, 1998, 435, 472-478.	1.3	50
24	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. Bioorganic and Medicinal Chemistry, 2010, 18, 5861-5872.	1.4	48
25	Synthesis, biological assessment and molecular modeling of new dihydroquinoline-3-carboxamides and dihydroquinoline-3-carbohydrazide derivatives as cholinesterase inhibitors, and Ca channel antagonists. European Journal of Medicinal Chemistry, 2011, 46, 1-10.	2.6	46
26	Separation of two pathways for calcium entry into chromaffin cells. British Journal of Pharmacology, 1991, 103, 1073-1078.	2.7	44
27	Separation of calcium channel current components in mouse chromaffin cells superfused with low- and high-barium solutions. Pflugers Archiv European Journal of Physiology, 1998, 436, 75-82.	1.3	44
28	Voltage inactivation of Ca2+entry and secretion associated with N- and P/Q-type but not L-type Ca2+channels of bovine chromaffin cells. Journal of Physiology, 1999, 516, 421-432.	1.3	44
29	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. Bioorganic and Medicinal Chemistry, 2011, 19, 122-133.	1.4	44
30	The purinergic P2X7 receptor as a potential drug target to combat neuroinflammation in neurodegenerative diseases. Medicinal Research Reviews, 2020, 40, 2427-2465.	5.0	44
31	Dotarizine versus flunarizine as calcium antagonists in chromaffin cells. British Journal of Pharmacology, 1995, 114, 369-376.	2.7	43
32	Human adrenal chromaffin cell calcium channels: drastic current facilitation in cell clusters, but not in isolated cells. Pflugers Archiv European Journal of Physiology, 1998, 436, 696-704.	1.3	43
33	Relative sensitivities of chromaffin cell calcium channels to organic and inorganic calcium antagonists. Neuroscience Letters, 1987, 77, 333-338.	1.0	40
34	Dihydropyridine Modulation of the Chromaffin Cell Secretory Response. Journal of Neurochemistry, 1987, 48, 483-490.	2.1	38
35	L-type calcium channels are preferentially coupled to endocytosis in bovine chromaffin cells. Biochemical and Biophysical Research Communications, 2007, 357, 834-839.	1.0	33
36	Single-Vesicle Catecholamine Release Has Greater Quantal Content and Faster Kinetics in Chromaffin Cells from Hypertensive, as Compared with Normotensive, Rats. Journal of Pharmacology and Experimental Therapeutics, 2008, 324, 685-693.	1.3	32

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37	The effects of 3,4-methylenedioxymethamphetamine (MDMA) on nicotinic receptors: Intracellular calcium increase, calpain/caspase 3 activation, and functional upregulation. Toxicology and Applied Pharmacology, 2010, 244, 344-353.	1.3	32
38	Distinct effects of Ï‰-toxins and various groups of Ca2+-entry inhibitors on nicotinic acetylcholine receptor and Ca2+ channels of chromaffin cells. European Journal of Pharmacology, 1997, 320, 249-257.	1.7	30
39	Role of the Endoplasmic Reticulum and Mitochondria on Quantal Catecholamine Release from Chromaffin Cells of Control and Hypertensive Rats. Journal of Pharmacology and Experimental Therapeutics, 2009, 329, 231-240.	1.3	30
40	A Two-Dimensional Electrophoresis Study of Phosphorylation and Dephosphorylation of Chromaffin Cell Proteins in Response to a Secretory Stimulus. Journal of Neurochemistry, 1988, 51, 1023-1030.	2.1	28
41	Permeation by zinc of bovine chromaffin cell calcium channels: relevance to secretion. Pflugers Archiv European Journal of Physiology, 1994, 429, 231-239.	1.3	27
42	Differential effects of the neuroprotectant lubeluzole on bovine and mouse chromaffin cell calcium channel subtypes. British Journal of Pharmacology, 1997, 122, 275-285.	2.7	27
43	Analogies and differences between Ï‰-conotoxins MVIIC and MVIID: binding sites and functions in bovine chromaffin cells. Pflugers Archiv European Journal of Physiology, 1997, 435, 55-64.	1.3	27
44	`Wide-spectrum Ca2+ channel antagonists': lipophilicity, inhibition, and recovery of secretion in chromaffin cells. European Journal of Pharmacology, 1997, 325, 109-119.	1.7	26
45	Melatonin Reduces NLRP3 Inflammasome Activation by Increasing Î±7 nAChR-Mediated Autophagic Flux. Antioxidants, 2020, 9, 1299.	2.2	26
46	Gramine Derivatives Targeting Ca²⁺ Channels and Ser/Thr Phosphatases: A New Dual Strategy for the Treatment of Neurodegenerative Diseases. Journal of Medicinal Chemistry, 2016, 59, 6265-6280.	2.9	25
47	Neuroprotection by Nicotine in Hippocampal Slices Subjected to Oxygen-Glucose Deprivation: Involvement of the Î±7 nAChR Subtype. Journal of Molecular Neuroscience, 2006, 30, 61-62.	1.1	23
48	Drastic facilitation by Î±-latrotoxin of bovine chromaffin cell exocytosis without measurable enhancement of Ca2+entry or [Ca2+]i. Journal of Physiology, 1997, 502, 481-496.	1.3	22
49	A cholineâ€evoked [Ca 2+] C signal causes catecholamine release and hyperpolarization of chromaffin cells. FASEB Journal, 2004, 18, 1468-1470.	0.2	21
50	Different sensitivities to dihydropyridines of catecholamine release from cat and ox adrenals. NeuroReport, 1990, 1, 119-122.	0.6	20
51	Autocrine/paracrine modulation of calcium channels in bovine chromaffin cells. Pflugers Archiv European Journal of Physiology, 1998, 437, 104-113.	1.3	20
52	R56865 inhibits catecholamine release from bovine chromaffin cells by blocking calcium channels. British Journal of Pharmacology, 1993, 110, 1149-1155.	2.7	19
53	Inhibition of nicotinic receptorâ€mediated responses in bovine chromaffin cells by diltiazem. British Journal of Pharmacology, 1996, 118, 1301-1307.	2.7	19
54	Blockade of nicotinic receptors of bovine adrenal chromaffin cells by nanomolar concentrations of atropine. European Journal of Pharmacology, 2006, 535, 13-24.	1.7	19

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55	The Differential Organization of F-Actin Alters the Distribution of Organelles in Cultured When Compared to Native Chromaffin Cells. Frontiers in Cellular Neuroscience, 2017, 11, 135.	1.8	19
56	Synthesis and pharmacology of Alkanediguanidinium compounds that block the neuronal nicotinic acetylcholine receptor. Bioorganic and Medicinal Chemistry, 1996, 4, 1177-1183.	1.4	18
57	Differential variations in Ca²⁺ entry, cytosolic Ca²⁺ and membrane capacitance upon steady or action potential depolarizing stimulation of bovine chromaffin cells. Acta Physiologica, 2008, 194, 97-109.	1.8	18
58	Synergism between toxin-Î³ from Brazilian scorpion<i>Tityus serrulatus</i>and veratridine in chromaffin cells. American Journal of Physiology - Cell Physiology, 1998, 274, C1745-C1754.	2.1	17
59	Greater cytosolic and mitochondrial calcium transients in adrenal medullary slices of hypertensive, compared with normotensive rats. European Journal of Pharmacology, 2010, 636, 126-136.	1.7	17
60	Calcium entry through slow-inactivating L-type calcium channels preferentially triggers endocytosis rather than exocytosis in bovine chromaffin cells. American Journal of Physiology - Cell Physiology, 2011, 301, C86-C98.	2.1	16
61	Depressed excitability and ion currents linked to slow exocytotic fusion pore in chromaffin cells of the SOD1^{G93A} mouse model of amyotrophic lateral sclerosis. American Journal of Physiology - Cell Physiology, 2015, 308, C1-C19.	2.1	16
62	A two-step model for acetylcholine control of exocytosis via nicotinic receptors. Biochemical and Biophysical Research Communications, 2008, 365, 413-419.	1.0	15
63	Dihydropyridine chirality at the chromaffin cell calcium channel. Brain Research, 1987, 408, 359-362.	1.1	14
64	Altered regulation of calcium channels and exocytosis in single human pheochromocytoma cells. Pflugers Archiv European Journal of Physiology, 2000, 440, 253-263.	1.3	14
65	Blockade by agmatine of catecholamine release from chromaffin cells is unrelated to imidazoline receptors. European Journal of Pharmacology, 2001, 417, 99-109.	1.7	13
66	Density of apamin-sensitive Ca2+-dependent K+ channels in bovine chromaffin cells: Relevance to secretion. Biochemical Pharmacology, 1995, 49, 1459-1468.	2.0	12
67	Effects of the neuroprotectant lubeluzole on the cytotoxic actions of veratridine, barium, ouabain and 6-hydroxydopamine in chromaffin cells. British Journal of Pharmacology, 1998, 124, 1187-1196.	2.7	12
68	Permissive role of sphingosine on calcium-dependent endocytosis in chromaffin cells. Pflugers Archiv European Journal of Physiology, 2010, 460, 901-914.	1.3	12
69	Design and synthesis of multipotent 3-aminomethylindoles and 7-azaindoles with enhanced protein phosphatase 2A-activating profile and neuroprotection. European Journal of Medicinal Chemistry, 2018, 157, 294-309.	2.6	12
70	Effects of tyramine and calcium on the kinetics of secretion in intact and electroporated chromaffin cells superfused at high speed. Pflugers Archiv European Journal of Physiology, 1995, 431, 283-296.	1.3	11
71	Blocking effects of otilonium on Ca2+ channels and secretion in rat chromaffin cells. European Journal of Pharmacology, 1996, 298, 199-205.	1.7	11
72	Inhibition of N and PQ calcium channels by calcium entry through L channels in chromaffin cells. Pflugers Archiv European Journal of Physiology, 2009, 458, 795-807.	1.3	11

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73	Hydrogen sulphide facilitates exocytosis by regulating the handling of intracellular calcium by chromaffin cells. Pflugers Archiv European Journal of Physiology, 2018, 470, 1255-1270.	1.3	11
74	A Single Neuronal Nicotinic Receptor Î±3Î±7Î²4* Is Present in the Bovine Chromaffin Cell. Annals of the New York Academy of Sciences, 2002, 971, 165-167.	1.8	10
75	A low nicotine concentration augments vesicle motion and exocytosis triggered by K+ depolarisation of chromaffin cells. European Journal of Pharmacology, 2008, 598, 81-86.	1.7	10
76	Activation and blockade by choline of bovine Î±7 and Î±3Î²4 nicotinic receptors expressed in oocytes. European Journal of Pharmacology, 2006, 535, 53-60.	1.7	9
77	Plasmalemmal sodium-calcium exchanger shapes the calcium and exocytotic signals of chromaffin cells at physiological temperature. American Journal of Physiology - Cell Physiology, 2013, 305, C160-C172.	2.1	9
78	Selective activation of Î±7 nicotinic acetylcholine receptor (nAChRÎ±7) inhibits muscular degeneration in mdx dystrophic mice. Brain Research, 2014, 1573, 27-36.	1.1	9
79	The quantal catecholamine release from mouse chromaffin cells challenged with repeated ACh pulses is regulated by the mitochondrial Na⁺/Ca²⁺ exchanger. Journal of Physiology, 2017, 595, 2129-2146.	1.3	9
80	Otilonium: a potent blocker of neuronal nicotinic ACh receptors in bovine chromaffin cells. British Journal of Pharmacology, 1996, 117, 463-470.	2.7	8
81	Regulation by L-Type Calcium Channels of Endocytosis: An Overview. Journal of Molecular Neuroscience, 2012, 48, 360-367.	1.1	8
82	Altered excitability and exocytosis in chromaffin cells from the R6/1 mouse model of Huntington's disease is linked to overâ€expression of mutated huntingtin. Journal of Neurochemistry, 2018, 147, 454-476.	2.1	8
83	Interactions between Ca2+, PCA50941 and Bay K 8644 in bovine chromaffin cells. European Journal of Pharmacology, 1994, 268, 293-303.	2.7	7
84	Selective block of Ca2+-dependent K+current in crayfish neuromuscular system and chromaffin cells by sea anemoneBunodosoma cangicumvenom. Journal of Neuroscience Research, 1995, 42, 539-546.	1.3	7
85	Calcium Channels for Exocytosis in Chromaffin Cells. Advances in Pharmacology, 1997, 42, 91-94.	1.2	7
86	Differential effects of forskolin and 1,9-dideoxy-forskolin on nicotinic receptor- and K+-induced responses in chromaffin cells. European Journal of Pharmacology, 1997, 329, 189-199.	1.7	7
87	Paradoxical facilitation of exocytosis by inhibition of L-type calcium channels of bovine chromaffin cells. Biochemical and Biophysical Research Communications, 2011, 410, 307-311.	1.0	7
88	Lower density of L-type and higher density of P/Q-type of calcium channels in chromaffin cells of hypertensive, compared with normotensive rats. European Journal of Pharmacology, 2013, 706, 25-35.	1.7	7
89	<i>N</i>-Benzylpiperidine Derivatives as Î±7 Nicotinic Receptor Antagonists. ACS Chemical Neuroscience, 2016, 7, 1157-1165.	1.7	7
90	Distinct patterns of exocytosis elicited by Ca2+, Sr2+ and Ba2+ in bovine chromaffin cells. Pflugers Archiv European Journal of Physiology, 2018, 470, 1459-1471.	1.3	5

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91	Dual Antidepressant Duloxetine Blocks Nicotinic Receptor Currents, Calcium Signals and Exocytosis in Chromaffin Cells Stimulated with Acetylcholine. Journal of Pharmacology and Experimental Therapeutics, 2018, 367, 28-39.	1.3	5
92	Otilonium and pinaverium trigger mitochondrial-mediated apoptosis in rat embryo cortical neurons in vitro. NeuroToxicology, 2019, 70, 99-111.	1.4	5
93	Serum Amyloid A1/Toll-Like Receptor-4 Axis, an Important Link between Inflammation and Outcome of TBI Patients. Biomedicines, 2021, 9, 599.	1.4	5
94	Preconditioning stimuli that augment chromaffin cell secretion. American Journal of Physiology - Cell Physiology, 2009, 296, C792-C800.	2.1	4
95	Augmentation of catecholamine release elicited by an Eugenia punicifolia extract in chromaffin cells. Revista Brasileira De Farmacognosia, 2012, 22, 1-12.	0.6	4
96	Regulation by L channels of Ca2+-evoked secretory responses in ouabain-treated chromaffin cells. Pflugers Archiv European Journal of Physiology, 2016, 468, 1779-1792.	1.3	4
97	Old and emerging concepts on adrenal chromaffin cell stimulus-secretion coupling. Pflugers Archiv European Journal of Physiology, 2018, 470, 1-6.	1.3	4
98	L-type calcium channels in exocytosis and endocytosis of chromaffin cells. Pflugers Archiv European Journal of Physiology, 2018, 470, 53-60.	1.3	4
99	Antimigraine dotarizine blocks P/Q Ca2+ channels and exocytosis in a voltage-dependent manner in chromaffin cells. European Journal of Pharmacology, 2003, 481, 41-50.	1.7	3
100	A Comparison Between Acetylcholine-Like Action Potentials and Square Depolarizing Pulses in Triggering Calcium Entry and Exocytosis in Bovine Chromaffin Cells. Journal of Molecular Neuroscience, 2006, 30, 57-58.	1.1	3
101	Computational analysis of the binding ability of heterocyclic and conformationally constrained epibatidine analogs in the neuronal nicotinic acetylcholine receptor. Molecular Diversity, 2010, 14, 201-211.	2.1	3
102	Calcium Channels for Exocytosis and Endocytosis: Pharmacological Modulation. , 2014, , 1091-1138.		3
103	(+)â€Isradipine but not (â^')â€Bayâ€Kâ€8644 exhibits voltageâ€dependent effects on cat adrenal catecholamine release. British Journal of Pharmacology, 1991, 102, 289-296.	2.7	2
104	Modulation of Exocytosis by the Na⁺/Ca²⁺ Exchanger of Chromaffin Cells. Annals of the New York Academy of Sciences, 2002, 971, 174-177.	1.8	2
105	Response to Letter to the Editor from Westerink and Hondebrink. Toxicology and Applied Pharmacology, 2010, 249, 249-250.	1.3	2
106	Novel synthetic sulfoglycolipid <scp>IG</scp>20 facilitates exocytosis in chromaffin cells through the regulation of sodium channels. Journal of Neurochemistry, 2015, 135, 880-896.	2.1	2
107	Enhancement of Secretion by Threshold Nicotinic Stimulation in Bovine Chromaffin Cells. Journal of Molecular Neuroscience, 2006, 30, 81-82.	1.1	1
108	Use of transgenic (knockout) mice reveals a site distinct from the Î±2A-adrenoceptors for agmatine in the vas deferens. Pharmacological Reports, 2009, 61, 325-329.	1.5	1

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109	Novel sulfoglycolipid IG20 causes neuroprotection by activating the phase II antioxidant response in rat hippocampal slices. Neuropharmacology, 2017, 116, 110-121.	2.0	1
110	<i>In vitro</i> and <i>in silico</i> studies for barbinervic acid, a triterpene isolated from <i>Eugenia punicifolia</i> that inhibits vasopressor tone. Natural Product Research, 2021, 35, 4870-4875.	1.0	0
111	Calcium Channels for Exocytosis and Endocytosis. , 2014, , 1091-1138.		0
112	Alterations of the Sympathoadrenal Axis Related to the Development of Alzheimerâ€™s Disease in the 3xTg Mouse Model. Biology, 2022, 11, 511.	1.3	0
113	Novel Purine Derivative ITH15004 Facilitates Exocytosis through a Mitochondrial Calcium-Mediated Mechanism. International Journal of Molecular Sciences, 2022, 23, 440.	1.8	0