Javier Garcia-Sancho

List of Publications by Year
in descending order

108	6,564	81839 39	64755 79
papers	citations	h-index	g-index

109	109	109	6658
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Treatment of Knee Osteoarthritis With Allogeneic Bone Marrow Mesenchymal Stem Cells. Transplantation, 2015, 99, 1681-1690.	0.5	459
2	Experimental and Clinical Regenerative Capability of Human Bone Marrow Cells After Myocardial Infarction. Circulation Research, 2004, 95, 742-748.	2.0	449
3	Chromaffin-cell stimulation triggers fast millimolar mitochondrial Ca2+ transients that modulate secretion. Nature Cell Biology, 2000, 2, 57-61.	4.6	444
4	Intervertebral Disc Repair by Autologous Mesenchymal Bone Marrow Cells: A Pilot Study. Transplantation, 2011, 92, 822-828.	0.5	393
5	Treatment of Knee Osteoarthritis With Autologous Mesenchymal Stem Cells. Transplantation, 2013, 95, 1535-1541.	0.5	385
6	Widespread synchronous [Ca2+]i oscillations due to bursting electrical activity in single pancreatic islets. Pflugers Archiv European Journal of Physiology, 1991, 418, 417-422.	1.3	329
7	Calcium Signaling and Exocytosis in Adrenal Chromaffin Cells. Physiological Reviews, 2006, 86, 1093-1131.	13.1	309
8	Intervertebral Disc Repair by Allogeneic Mesenchymal Bone Marrow Cells. Transplantation, 2017, 101, 1945-1951.	0.5	171
9	Ca2+-induced Ca2+ Release in Chromaffin Cells Seen from inside the ER with Targeted Aequorin. Journal of Cell Biology, 1999, 144, 241-254.	2.3	170
10	Treatment of Knee Osteoarthritis With Autologous Mesenchymal Stem Cells. Transplantation, 2014, 97, e66-e68.	0.5	128
11	Cytochrome P450 may regulate plasma membrane Ca 2+ permeability according to the filling state of the intracellular Ca 2+ stores. FASEB Journal, 1992, 6, 786-792.	0.2	122
12	Redistribution of Ca2+among cytosol and organella during stimulation of bovine chromaffin cells. FASEB Journal, 2002, 16, 343-353.	0.2	114
13	Irreversible ATP depletion caused by low concentrations of formaldehyde and of calcium-chelator esters in intact human red cells. Biochimica Et Biophysica Acta - Biomembranes, 1984, 773, 143-156.	1.4	110
14	Calcium Influx through Receptor-operated Channel Induces Mitochondria-triggered Paraptotic Cell Death. Journal of Biological Chemistry, 2003, 278, 14134-14145.	1.6	109
15	Systematic Identification of MCU Modulators by Orthogonal Interspecies Chemical Screening. Molecular Cell, 2017, 67, 711-723.e7.	4.5	99
16	Inhibition of voltageâ€gated Ca 2+ entry into GH 3 and chromaffin cells by imidazole antimycotics and other cytochrome P450 blockers. FASEB Journal, 1992, 6, 2742-2747.	0.2	93
17	Calcium microdomains in mitochondria and nucleus. Cell Calcium, 2006, 40, 513-525.	1.1	92
18	The sarco/endoplasmic reticulum Ca2+ ATPase (SERCA) is the third element in capacitative calcium entry. Cell Calcium, 2010, 47, 412-418.	1.1	87

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19	The Eutherian Armcx genes regulate mitochondrial trafficking in neurons and interact with Miro and Trak2. Nature Communications, 2012, 3, 814.	5.8	84
20	A proof-of-concept clinical trial using mesenchymal stem cells for the treatment of corneal epithelial stem cell deficiency. Translational Research, 2019, 206, 18-40.	2.2	81
21	The Endoplasmic Reticulum of Dorsal Root Ganglion Neurons Contains Functional TRPV1 Channels. Journal of Biological Chemistry, 2009, 284, 32591-32601.	1.6	76
22	Cell proliferation depends on mitochondrial Ca2+uptake: inhibition by salicylate. Journal of Physiology, 2006, 571, 57-73.	1.3	74
23	Functional measurements of [Ca2+] in the endoplasmic reticulum using a herpes virus to deliver targeted aequorin. Cell Calcium, 1998, 24, 87-96.	1.1	73
24	Functional glutamate receptors in a subpopulation of anterior pituitary cells. FASEB Journal, 1996, 10, 654-660.	0.2	68
25	Cytosolic phospholipase A2 is coupled to muscarinic receptors in the human astrocytoma cell line 1321N1: characterization of the transducing mechanism. Biochemical Journal, 1997, 323, 281-287.	1.7	64
26	GAP, an aequorin-based fluorescent indicator for imaging Ca ²⁺ in organelles. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2584-2589.	3.3	64
27	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
28	Nuclear Ca2+ signalling. Cell Calcium, 2011, 49, 280-289.	1.1	56
29	Capacitative Ca2+ entry contributes to the Ca2+ influx induced by thyrotropin-releasing hormone (TRH) in GH3 pituitary cells. Pflugers Archiv European Journal of Physiology, 1995, 430, 923-935.	1.3	54
30	Red and green aequorins for simultaneous monitoring of Ca2+ signals from two different organelles. Pflugers Archiv European Journal of Physiology, 2008, 455, 961-970.	1.3	54
31	Stem Cell Therapy for Corneal Epithelium Regeneration following Good Manufacturing and Clinical Procedures. BioMed Research International, 2015, 2015, 1-19.	0.9	54
32	All-or-none response of the Ca2+-dependent K+ channel in inside-out vesicles. Nature, 1982, 296, 744-746.	13.7	50
33	Leiurus quinquestriatus venom inhibits different kinds of Ca2+-dependent K+ channels. Biochimica Et Biophysica Acta - Biomembranes, 1986, 856, 403-407.	1.4	48
34	Calcium homoeostasis modulator 1 (CALHM1) reduces the calcium content of the endoplasmic reticulum (ER) and triggers ER stress. Biochemical Journal, 2011, 437, 469-475.	1.7	46
35	Privileged coupling between Ca2+ entry through plasma membrane store-operated Ca2+ channels and the endoplasmic reticulum Ca2+ pump. Molecular and Cellular Endocrinology, 2012, 353, 37-44.	1.6	46
36	Influence of HLA Matching on the Efficacy of Allogeneic Mesenchymal Stromal Cell Therapies for Osteoarthritis and Degenerative Disc Disease. Transplantation Direct, 2017, 3, e205.	0.8	45

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37	Effects of extremely-law-frequency electromagnetic fields on ion transport in several mammalian cells. Bioelectromagnetics, 1994, 15, 579-588.	0.9	43
38	Bioluminescence imaging of mitochondrial Ca2+dynamics in soma and neurites of individual adult mouse sympathetic neurons. Journal of Physiology, 2007, 580, 385-395.	1.3	42
39	Mechanisms for Synchronous Calcium Oscillations in Cultured Rat Cerebellar Neurons. European Journal of Neuroscience, 1996, 8, 192-201.	1.2	41
40	Multifunctional Cells of Mouse Anterior Pituitary Reveal a Striking Sexual Dimorphism. Journal of Physiology, 2003, 549, 835-843.	1.3	41
41	Anterior pituitary thyrotropes are multifunctional cells. American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E1166-E1170.	1.8	39
42	The coupling of plasma membrane calcium entry to calcium uptake by endoplasmic reticulum and mitochondria. Journal of Physiology, 2014, 592, 261-268.	1.3	39
43	Calcium entry-calcium refilling (CECR) coupling between store-operated Ca2+ entry and sarco/endoplasmic reticulum Ca2+-ATPase. Cell Calcium, 2011, 49, 153-161.	1.1	38
44	Stimulation of monovalent cation fluxes by electron donors in the human red cell membrane. Biochimica Et Biophysica Acta - Biomembranes, 1979, 556, 118-130.	1.4	36
45	Use of the ionophore A23187 to measure and control cytoplasmic Ca2+ levels in intact red cells. Cell Calcium, 1985, 6, 15-23.	1.1	36
46	The role of the inwardly rectifying K+ current in resting potential and thyrotropin-releasing-hormone-induced changes in cell excitability of GH3 rat anterior pituitary cells. Pflugers Archiv European Journal of Physiology, 1994, 426, 221-230.	1.3	35
47	Repair of maxillary cystic bone defects with mesenchymal stem cells seeded on a cross-linked serum scaffold. Journal of Cranio-Maxillo-Facial Surgery, 2018, 46, 222-229.	0.7	35
48	Functional ATP receptors in rat anterior pituitary cells. American Journal of Physiology - Cell Physiology, 1997, 273, C1963-C1971.	2.1	34
49	Generation of inner ear sensory cells from bone marrow-derived human mesenchymal stem cells. Regenerative Medicine, 2012, 7, 769-783.	0.8	34
50	The distribution of mitochondria and endoplasmic reticulum in relation with secretory sites in chromaffin cells. Journal of Cell Science, 2014, 127, 5105-14.	1.2	34
51	Pyruvate prevents the ATP depletion caused by formaldehyde or calcium-chelator esters in the human red cell. Biochimica Et Biophysica Acta - Biomembranes, 1985, 813, 148-150.	1.4	33
52	Comparative effects of cytochrome P-450 inhibitors on Ca2+ and Mn2+ entry induced by agonists or by emptying the Ca2+ stores of human neutrophils. Biochimica Et Biophysica Acta - Molecular Cell Research, 1993, 1177, 127-133.	1.9	33
53	Intracellular Ca2+ potentiates Na+ /H+ exchange and cell differentiation induced by phorbol ester in U937 cells. FEBS Journal, 1989, 183, 709-714.	0.2	31
54	Dampening of Cytosolic Ca2+ Oscillations on Propagation to Nucleus. Journal of Biological Chemistry, 2002, 277, 50226-50229.	1.6	31

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55	Fura-2 antagonises calcium-induced calcium release. Cell Calcium, 2003, 33, 27-35.	1.1	30
56	Effect of cytosolic Mg2+ on mitochondrial Ca2+ signaling. Pflugers Archiv European Journal of Physiology, 2009, 457, 941-954.	1.3	30
57	GFP-Aequorin Protein Sensor for ExÂVivo and InÂVivo Imaging of Ca 2+ Dynamics in High-Ca 2+ Organelles. Cell Chemical Biology, 2016, 23, 738-745.	2.5	30
58	Mechanisms for stimulation of rat anterior pituitary cells by arginine and other amino acids. Journal of Physiology, 1997, 502, 421-431.	1.3	28
59	Nuclear calcium signaling by inositol trisphosphate in GH3 pituitary cells. Cell Calcium, 2008, 43, 205-214.	1.1	28
60	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
61	Transcription factor induced conversion of human fibroblasts towards the hair cell lineage. PLoS ONE, 2018, 13, e0200210.	1.1	26
62	Receptor-operated calcium channels in human platelets. Biochemical Society Transactions, 1989, 17, 980-982.	1.6	24
63	Glucose induces synchronous mitochondrial calcium oscillations in intact pancreatic islets. Cell Calcium, 2008, 43, 39-47.	1.1	24
64	An estimate of the number of Ca2+-dependent K+ channels in the human red cell. Biochimica Et Biophysica Acta - Biomembranes, 1987, 903, 543-546.	1.4	23
65	Mitochondria and chromaffin cell function. Pflugers Archiv European Journal of Physiology, 2012, 464, 33-41.	1.3	23
66	Cytosolic organelles shape calcium signals and exoâ€“endocytotic responses of chromaffin cells. Cell Calcium, 2012, 51, 309-320.	1.1	22
67	Differential calcium handling by the cis and trans regions of the Golgi apparatus. Biochemical Journal, 2015, 466, 455-465.	1.7	22
68	Control of secretion by mitochondria depends on the size of the local [Ca2+] after chromaffin cell stimulation. European Journal of Neuroscience, 2001, 13, 2247-2254.	1.2	21
69	Changes in Expression of Hypothalamic Releasing Hormone Receptors in Individual Rat Anterior Pituitary Cells during Maturation, Puberty and Senescence. Endocrinology, 2005, 146, 4627-4634.	1.4	21
70	Effects of electron donors on Ca2+-dependent K+ transport in one-step inside-out vesicles from the human erythrocyte membrane. Biochimica Et Biophysica Acta - Biomembranes, 1984, 771, 23-27.	1.4	20
71	[6] Measurement and control of intracellular calcium in intact red cells. Methods in Enzymology, 1989, 173, 100-112.	0.4	20
72	Two distinct calcium pools in the endoplasmic reticulum of HEK-293T cells. Biochemical Journal, 2011, 435, 227-235.	1.7	20

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73	Using aequorin probes to measure Ca2+ in intracellular organelles. Cell Calcium, 2017, 64, 3-11.	1.1	20
74	Differential calcium responses to the pituitary adenylate cyclase-activating polypeptide (PACAP) in the five main cell types of rat anterior pituitary. Pflugers Archiv European Journal of Physiology, 2000, 440, 685-691.	1.3	19
75	Bioluminescence imaging of nuclear calcium oscillations in intact pancreatic islets of Langerhans from the mouse. Cell Calcium, 2005, 38, 131-139.	1.1	19
76	Caffeine-induced oscillations of cytosolic Ca2+ in GH3 pituitary cells are not due to Ca2+ release from intracellular stores but to enhanced Ca2+ influx through voltage-gated Ca2+ channels. Pflugers Archiv European Journal of Physiology, 1996, 431, 371-378.	1.3	17
77	A new low-Ca2+ affinity GAP indicator to monitor high Ca2+ in organelles by luminescence. Cell Calcium, 2015, 58, 558-564.	1.1	17
78	Agonist-induced Ca2+ influx in human neutrophils is not mediated by production of inositol polyphosphates but by emptying of the intracellular Ca2+ stores. Biochemical Society Transactions, 1994, 22, 809-813.	1.6	14
79	Bioluminescence Imaging of Calcium Oscillations Inside Intracellular Organelles. Methods in Molecular Biology, 2009, 574, 203-214.	0.4	14
80	The role of calmodulin on Ca2+-dependent K+ transport regulation in the human red cell. Biochimica Et Biophysica Acta - Biomembranes, 1986, 860, 25-34.	1.4	13
81	Rapid Changes in Anterior Pituitary Cell Phenotypes in Male and Female Mice after Acute Cold Stress. Endocrinology, 2008, 149, 2159-2167.	1.4	13
82	Direct monitoring of ER Ca2+ dynamics reveals that Ca2+ entry induces ER-Ca2+ release in astrocytes. Pflugers Archiv European Journal of Physiology, 2020, 472, 439-448.	1.3	12
83	Treatment of Degenerative Disc Disease With Allogeneic Mesenchymal Stem Cells: Long-term Follow-up Results. Transplantation, 2021, 105, e25-e27.	0.5	12
84	Subcellular Ca(2+) Dynamics. News in Physiological Sciences: an International Journal of Physiology Produced Jointly By the International Union of Physiological Sciences and the American Physiological Society, 1999, 14, 161-168.	1.0	12
85	Phenotypic characterization of multi-functional somatotropes, mammotropes and gonadotropes of the mouse anterior pituitary. Pflugers Archiv European Journal of Physiology, 2004, 449, 257-64.	1.3	11
86	Measuring Ca 2+ inside intracellular organelles with luminescent and fluorescent aequorin-based sensors. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 894-899.	1.9	11
87	Sarcoplasmic reticulum Ca2+ decreases with age and correlates with the decline in muscle function in Drosophila. Journal of Cell Science, 2020, 133, .	1.2	10
88	Activation by calcium of AMP deaminase from the human red cell. FEBS Letters, 1989, 244, 417-420.	1.3	9
89	The pathway for refilling intracellular Ca2+ stores passes through the cytosol in human leukaemia cells. Pflugers Archiv European Journal of Physiology, 1993, 424, 465-469.	1.3	9
90	Caffeine chelates calcium in the lumen of the endoplasmic reticulum. Biochemical Journal, 2018, 475, 3639-3649.	1.7	9

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91	Subcellular Ca²⁺ Dynamics. Physiology, 1999, 14, 161-168.	1.6	8
92	Direct actions of adrenergic agents on rat anterior pituitary cells. Pflugers Archiv European Journal of Physiology, 2001, 442, 834-841.	1.3	8
93	Long-term efficacy of autologous bone marrow mesenchymal stromal cells for treatment of knee osteoarthritis. Journal of Translational Medicine, 2021, 19, 506.	1.8	7
94	Effects of redox agents on the Ca2+-activated K+ channel. Cell Calcium, 1983, 4, 493-497.	1.1	6
95	Analysis of the all or nothing behaviour of Ca-dependent K channels in one-step inside-out vesicles from human red cell membranes. Biochimica Et Biophysica Acta - Biomembranes, 1986, 859, 56-60.	1.4	6
96	Inhibition of Ca2+-dependent K+ channels by lead in one-step inside-out vesicles from human red cell membranes. Biochimica Et Biophysica Acta - Biomembranes, 1986, 857, 291-294.	1.4	6
97	[22] Preparation and properties of one-step inside-out vesicles from red cell membranes. Methods in Enzymology, 1989, 173, 368-376.	0.4	5
98	Subcellular Ca²⁺ Dynamics Measured with Targeted Aequorin in Chromaffin Cells. Annals of the New York Academy of Sciences, 2002, 971, 634-640.	1.8	5
99	Single-Cell Phenotypic Characterization of Human Pituitary GHomas and Non-Functioning Adenomas Based on Hormone Content and Calcium Responses to Hypothalamic Releasing Hormones. Frontiers in Oncology, 2015, 5, 124.	1.3	5
100	An extracellular sulfhydryl group modulates background Na+ conductance and cytosolic Ca2+ in pituitary cells. American Journal of Physiology - Cell Physiology, 2002, 282, C864-C872.	2.1	3
101	Imaging of Endoplasmic Reticulum Ca2+ in the Intact Pituitary Gland of Transgenic Mice Expressing a Low Affinity Ca2+ Indicator. Frontiers in Endocrinology, 2020, 11, 615777.	1.5	3
102	A Microplate-Based Bioluminescence Assay of Mitochondrial Calcium Uptake. Methods in Molecular Biology, 2017, 1567, 245-253.	0.4	2
103	Bone regeneration with autologous adipose-derived mesenchymal stem cells: A reliable experimental model in rats. MethodsX, 2020, 7, 101137.	0.7	2
104	MANDIBULAR BONE REGENERATION WITH AUTOLOGOUS ADIPOSE-DERIVED MESENCHYMAL STEM CELLS AND CORALLINE HYDROXYAPATITE: EXPERIMENTAL STUDY IN RATS. British Journal of Oral and Maxillofacial Surgery, 2021, , .	0.4	2
105	Ca2+-Activated Potassium Channels. , 1989, , 201-231.		1
106	Ca2+ Imaging of Intracellular Organelles: Mitochondria. Neuromethods, 2010, , 169-188.	0.2	0
107	Response to â€œOverenthusiastic Interpretations of a Nonetheless Promising Studyâ€• Transplantation, 2012, 93, e7-e9.	0.5	0
108	New Aspects of the Contribution of ER to SOCE Regulation. , 2012, , 153-162.		0