Mayte Montero

List of Publications by Year
in descending order

60 papers	2,829 citations	218381 26 h-index	174990 52 g-index
64 all docs	64 docs citations	64 times ranked	2585 citing authors

#	Article	IF	Citations
1	The Mitochondrial Na+/Ca2+ Exchanger Inhibitor CGP37157 Preserves Muscle Structure and Function to Increase Lifespan and Healthspan in Caenorhabditis elegans. Frontiers in Pharmacology, 2021, 12, 695687.	1.6	4
2	Mechanism of the lifespan extension induced by submaximal SERCA inhibition in C. elegans. Mechanisms of Ageing and Development, 2021, 196, 111474.	2.2	5
3	Mitochondrial Ca2+ Dynamics in MCU Knockout C. elegans Worms. International Journal of Molecular Sciences, 2020, 21, 8622.	1.8	15
4	The Role of Ca2+ Signaling in Aging and Neurodegeneration: Insights from Caenorhabditis elegans Models. Cells, 2020, 9, 204.	1.8	33
5	Regulation of inositol 1,4,5-trisphosphate-induced Ca2+ release from the endoplasmic reticulum by AMP-activated kinase modulators. Cell Calcium, 2019, 77, 68-76.	1.1	9
6	Inhibition of Sarco-Endoplasmic Reticulum Ca2+ ATPase Extends the Lifespan in C. elegans Worms. Frontiers in Pharmacology, 2018, 9, 669.	1.6	18
7	The Neuroprotector Benzothiazepine CGP37157 Extends Lifespan in C. elegans Worms. Frontiers in Aging Neuroscience, 2018, 10, 440.	1.7	9
8	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
9	Pharynx mitochondrial [Ca2+] dynamics in live <i>C. elegans</i> worms during aging. Oncotarget, 2017, 8, 55889-55900.	0.8	11
10	Functional Characterization of Three Concomitant MtDNA LHON Mutations Shows No Synergistic Effect on Mitochondrial Activity. PLoS ONE, 2016, 11, e0146816.	1.1	17
11	Modulation of Calcium Entry by Mitochondria. Advances in Experimental Medicine and Biology, 2016, 898, 405-421.	0.8	18
12	Functional roles of MICU1 and MICU2 in mitochondrial Ca 2+ uptake. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1110-1117.	1.4	46
13	Long-term monitoring of Ca2+ dynamics in <i>C. elegans</i> pharynx: an <i>in vivo</i> energy balance sensor. Oncotarget, 2016, 7, 67732-67747.	0.8	13
14	Dynamics of mitochondrial Ca2+ uptake in MICU1-knockdown cells. Biochemical Journal, 2014, 458, 33-40.	1.7	35
15	Effects of Long-Term Feeding of the Polyphenols Resveratrol and Kaempferol in Obese Mice. PLoS ONE, 2014, 9, e112825.	1.1	16
16	Ca2+ homeostasis in the endoplasmic reticulum measured with a new low-Ca2+-affinity targeted aequorin. Cell Calcium, 2013, 54, 37-45.	1.1	41
17	Mitochondrial free [Ca2+] dynamics measured with a novel low-Ca2+ affinity aequorin probe. Biochemical Journal, 2012, 445, 371-376.	1.7	45
18	Dynamics of mitochondrial [Ca2+] measured with the low-Ca2+-affinity dye rhod-5N. Cell Calcium, 2012, 51, 65-71.	1.1	14

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19	Calcium signalling mediated through Î±7 and nonâ€Î±7 nAChR stimulation is differentially regulated in bovine chromaffin cells to induce catecholamine release. British Journal of Pharmacology, 2011, 162, 94-110.	2.7	27
20	Ca2+ Dynamics in the Secretory Vesicles of Neurosecretory PC12 and INS1 Cells. Cellular and Molecular Neurobiology, 2010, 30, 1267-1274.	1.7	7
21	The dynamics of mitochondrial Ca2+ fluxes. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1727-1735.	0.5	12
22	Monitoring mitochondrial [Ca2+] dynamics with rhod-2, ratiometric pericam and aequorin. Cell Calcium, 2010, 48, 61-69.	1.1	65
23	A confocal study on the visualization of chromaffin cell secretory vesicles with fluorescent targeted probes and acidic dyes. Journal of Structural Biology, 2010, 172, 261-269.	1.3	10
24	Mitochondrial free [Ca2+] levels and the permeability transition. Cell Calcium, 2009, 45, 243-250.	1.1	24
25	Calcium dynamics in bovine adrenal medulla chromaffin cell secretory granules. European Journal of Neuroscience, 2008, 28, 1265-1274.	1.2	46
26	Modulation of Ca2+release and Ca2+oscillations in HeLa cells and fibroblasts by mitochondrial Ca2+uniporter stimulation. Journal of Physiology, 2007, 580, 39-49.	1.3	48
27	The plasma membrane Na+ /Ca2+ exchange inhibitor KB-R7943 is also a potent inhibitor of the mitochondrial Ca2+ uniporter. British Journal of Pharmacology, 2007, 151, 647-654.	2.7	82
28	The mitochondrial Na+/Ca2+ exchanger plays a key role in the control of cytosolic Ca2+ oscillations. Cell Calcium, 2006, 40, 53-61.	1.1	59
29	Modulation of mitochondrial Ca2+ uptake by estrogen receptor agonists and antagonists. British Journal of Pharmacology, 2005, 145, 862-871.	2.7	46
30	Calcium dynamics in catecholamine-containing secretory vesicles. Cell Calcium, 2005, 37, 555-564.	1.1	38
31	Calcineurin-independent inhibition of mitochondrial Ca2+ uptake by cyclosporin A. British Journal of Pharmacology, 2004, 141, 263-268.	2.7	24
32	Direct activation of the mitochondrial calcium uniporter by natural plant flavonoids. Biochemical Journal, 2004, 384, 19-24.	1.7	128
33	Modulation of Histamine-induced Ca2+ Release by Protein Kinase C. Journal of Biological Chemistry, 2003, 278, 49972-49979.	1.6	27
34	A novel regulatory mechanism of the mitochondrial Ca 2+ uniporter revealed by the p38 mitogenâ€activated protein kinase inhibitor sb202190. FASEB Journal, 2002, 16, 1955-1957.	0.2	77
35	Redistribution of Ca2+among cytosol and organella during stimulation of bovine chromaffin cells. FASEB Journal, 2002, 16, 343-353.	0.2	114
36	Effect of inositol 1,4,5-trisphosphate receptor stimulation on mitochondrial [Ca2+] and secretion in chromaffin cells. Biochemical Journal, 2002, 365, 451-459.	1.7	20

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37	Measuring [Ca2+] in the endoplasmic reticulum with aequorin. Cell Calcium, 2002, 32, 251-260.	1.1	102
38	Modulation of secretion by the endoplasmic reticulum in mouse chromaffin cells. European Journal of Neuroscience, 2002, 16, 1690-1696.	1.2	23
39	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
40	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
41	Stimulation by thimerosal of histamine-induced Ca2+release in intact HeLa cells seen with aequorin targeted to the endoplasmic reticulum. Cell Calcium, 2001, 30, 181-190.	1.1	20
42	Mitochondrial Ca²⁺-induced Ca²⁺Release Mediated by the Ca²⁺Uniporter. Molecular Biology of the Cell, 2001, 12, 63-71.	0.9	84
43	Chromaffin-cell stimulation triggers fast millimolar mitochondrial Ca2+ transients that modulate secretion. Nature Cell Biology, 2000, 2, 57-61.	4.6	444
44	Subcellular Ca²⁺ Dynamics. Physiology, 1999, 14, 161-168.	1.6	8
45	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
46	Novel antimigraineur dotarizine releases Ca2+ from caffeine-sensitive Ca2+ stores of chromaffin cells. British Journal of Pharmacology, 1999, 128, 621-626.	2.7	6
47	Secretory Phospholipase A2 Induces Phospholipase CÎ³-1 Activation and Ca2+ Mobilization in the Human Astrocytoma Cell Line 1321N1 by a Mechanism Independent of Its Catalytic Activity. Biochemical and Biophysical Research Communications, 1999, 260, 99-104.	1.0	23
48	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
49	Dynamics of [Ca2+] in the Endoplasmic Reticulum and Cytoplasm of Intact HeLa Cells. Journal of Biological Chemistry, 1997, 272, 27694-27699.	1.6	136
50	Ca2+ Homeostasis in the Endoplasmic Reticulum: Coexistence of High and Low [Ca2+] Subcompartments in Intact HeLa Cells. Journal of Cell Biology, 1997, 139, 601-611.	2.3	110
51	[Ca ²⁺] Microdomains control agonistâ€induced Ca ²⁺ release in intact HeLa cells. FASEB Journal, 1997, 11, 881-885.	0.2	79
52	Targeting aequorin and green fluorescent protein to intracellular organelles. Gene, 1996, 173, 113-117.	1.0	61
53	Effects of extremely-law-frequency electromagnetic fields on ion transport in several mammalian cells. Bioelectromagnetics, 1994, 15, 579-588.	0.9	43
54	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

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55	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
56	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
57	Agonist-evoked Ca2+ entry in human platelets: a reply. Biochemical Journal, 1992, 285, 343-344.	1.7	4
58	Ca2+ influx following receptor activation. Trends in Pharmacological Sciences, 1992, 13, 12-13.	4.0	10
59	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
60	Measurement of â€˜in situâ€™ mitochondrial membrane potential in Ehrlich ascites tumor cells during aerobic glycolysis. Biochimica Et Biophysica Acta - Bioenergetics, 1988, 935, 322-332.	0.5	11