

Tito CalÃ¡n

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

4,650
citations

109321

35
h-index

106344

65
g-index

85
all docs

85
docs citations

85
times ranked

8821
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuronal calcium signaling: function and dysfunction. Cellular and Molecular Life Sciences, 2014, 71, 2787-2814.	5.4	501
2	Coronaviruses Hijack the LC3-I-Positive EDEMosomes, ER-Derived Vesicles Exporting Short-Lived ERAD Regulators, for Replication. Cell Host and Microbe, 2010, 7, 500-508.	11.0	332
3	Î±-Synuclein Controls Mitochondrial Calcium Homeostasis by Enhancing Endoplasmic Reticulum-Mitochondria Interactions. Journal of Biological Chemistry, 2012, 287, 17914-17929.	3.4	256
4	Enhanced parkin levels favor ER-mitochondria crosstalk and guarantee Ca ²⁺ transfer to sustain cell bioenergetics. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 495-508.	3.8	185
5	The Parkinson disease-related protein DJ-1 counteracts mitochondrial impairment induced by the tumour suppressor protein p53 by enhancing endoplasmic reticulum-mitochondria tethering. Human Molecular Genetics, 2013, 22, 2152-2168.	2.9	177
6	SPLICS: a split green fluorescent protein-based contact site sensor for narrow and wide heterotypic organelle juxtaposition. Cell Death and Differentiation, 2018, 25, 1131-1145.	11.2	174
7	EDEM1 regulates ER-associated degradation by accelerating de-mannosylation of folding-defective polypeptides and by inhibiting their covalent aggregation. Biochemical and Biophysical Research Communications, 2006, 349, 1278-1284.	2.1	154
8	The plasma membrane calcium pump in health and disease. FEBS Journal, 2013, 280, 5385-5397.	4.7	139
9	Intracellular Calcium Homeostasis and Signaling. Metal Ions in Life Sciences, 2013, 12, 119-168.	2.8	116
10	Mutation of plasma membrane Ca ²⁺ ATPase isoform 3 in a family with X-linked congenital cerebellar ataxia impairs Ca ²⁺ homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14514-14519.	7.1	113
11	Segregation and rapid turnover of EDEM1 by an autophagy-like mechanism modulates standard ERAD and folding activities. Biochemical and Biophysical Research Communications, 2008, 371, 405-410.	2.1	111
12	Mitochondrial Ca ²⁺ and neurodegeneration. Cell Calcium, 2012, 52, 73-85.	2.4	110
13	TOM70 Sustains Cell Bioenergetics by Promoting IP3R3-Mediated ER to Mitochondria Ca ²⁺ Transfer. Current Biology, 2018, 28, 369-382.e6.	3.9	109
14	PINK1/Parkin Mediated Mitophagy, Ca ²⁺ Signalling, and ER-Mitochondria Contacts in Parkinson's Disease. International Journal of Molecular Sciences, 2020, 21, 1772.	4.1	105
15	Calcium in Health and Disease. Metal Ions in Life Sciences, 2013, 13, 81-137.	2.8	105
16	Mitochondria, calcium, and endoplasmic reticulum stress in Parkinson's disease. BioFactors, 2011, 37, 228-240.	5.4	101
17	Calcium signaling in Parkinson's disease. Cell and Tissue Research, 2014, 357, 439-454.	2.9	100
18	The Close Encounter Between Alpha-Synuclein and Mitochondria. Frontiers in Neuroscience, 2018, 12, 388.	2.8	99

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19	Alpha-synuclein aggregates activate calcium pump SERCA leading to calcium dysregulation. <i>EMBO Reports</i> , 2018, 19, .	4.5	88
20	Tau localises within mitochondrial sub-compartments and its caspase cleavage affects ER-mitochondria interactions and cellular Ca ²⁺ handling. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3247-3256.	3.8	88
21	The VAPB-PTPIP51 endoplasmic reticulum-mitochondria tethering proteins are present in neuronal synapses and regulate synaptic activity. <i>Acta Neuropathologica Communications</i> , 2019, 7, 35.	5.2	88
22	Mitochondrial fission links ECM mechanotransduction to metabolic redox homeostasis and metastatic chemotherapy resistance. <i>Nature Cell Biology</i> , 2022, 24, 168-180.	10.3	68
23	Mitochondria Associated Membranes (MAMs): Architecture and physiopathological role. <i>Cell Calcium</i> , 2021, 94, 102343.	2.4	64
24	Impaired Mitochondrial ATP Production Downregulates Wnt Signaling via ER Stress Induction. <i>Cell Reports</i> , 2019, 28, 1949-1960.e6.	6.4	56
25	A chloroplast-localized mitochondrial calcium uniporter transduces osmotic stress in Arabidopsis. <i>Nature Plants</i> , 2019, 5, 581-588.	9.3	56
26	Calcium and Endoplasmic Reticulum-Mitochondria Tethering in Neurodegeneration. <i>DNA and Cell Biology</i> , 2013, 32, 140-146.	1.9	53
27	Reduced mitochondrial Ca ²⁺ transients stimulate autophagy in human fibroblasts carrying the 13514A>G mutation of the ND5 subunit of NADH dehydrogenase. <i>Cell Death and Differentiation</i> , 2016, 23, 231-241.	11.2	51
28	Alpha-synuclein at the intracellular and the extracellular side: functional and dysfunctional implications. <i>Biological Chemistry</i> , 2017, 398, 77-100.	2.5	50
29	Regulation of Cell Calcium and Role of Plasma Membrane Calcium ATPases. <i>International Review of Cell and Molecular Biology</i> , 2017, 332, 259-296.	3.2	49
30	Ca ²⁺ handling at the mitochondria-ER contact sites in neurodegeneration. <i>Cell Calcium</i> , 2021, 98, 102453.	2.4	49
31	Mitochondrial Thioredoxin System as a Modulator of Cyclophilin D Redox State. <i>Scientific Reports</i> , 2016, 6, 23071.	3.3	46
32	The plasma membrane calcium pumps: focus on the role in (neuro)pathology. <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 1116-1124.	2.1	44
33	An expanded palette of improved SPLICS reporters detects multiple organelle contacts in vitro and in vivo. <i>Nature Communications</i> , 2020, 11, 6069.	12.8	43
34	Emerging (and converging) pathways in Parkinson's disease: keeping mitochondrial wellness. <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 1020-1030.	2.1	42
35	A Novel Mutation in Isoform 3 of the Plasma Membrane Ca ²⁺ Pump Impairs Cellular Ca ²⁺ Homeostasis in a Patient with Cerebellar Ataxia and Laminin Subunit 11± Mutations. <i>Journal of Biological Chemistry</i> , 2015, 290, 16132-16141.	3.4	41
36	A new split-GFP-based probe reveals DJ-1 translocation into the mitochondrial matrix to sustain ATP synthesis upon nutrient deprivation. <i>Human Molecular Genetics</i> , 2015, 24, 1045-1060.	2.9	38

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37	Mitochondrial Ca ²⁺ as a Key Regulator of Mitochondrial Activities. <i>Advances in Experimental Medicine and Biology</i> , 2012, 942, 53-73.	1.6	36
38	Methods to Measure Intracellular Ca ²⁺ Fluxes with Organelle-Targeted Aequorin-Based Probes. <i>Methods in Enzymology</i> , 2014, 543, 21-45.	1.0	35
39	Calcium Pumps: Why So Many?. , 2012, 2, 1045-1060.		34
40	splitGFP Technology Reveals Dose-Dependent ER-Mitochondria Interface Modulation by Î±-Synuclein A53T and A30P Mutants. <i>Cells</i> , 2019, 8, 1072.	4.1	34
41	Architecture of the human erythrocyte ankyrin-1 complex. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 706-718.	8.2	33
42	Phosphorylation of nuclear Tau is modulated by distinct cellular pathways. <i>Scientific Reports</i> , 2018, 8, 17702.	3.3	31
43	Parkin-dependent regulation of the MCU complex component MICU1. <i>Scientific Reports</i> , 2018, 8, 14199.	3.3	31
44	ER-Mitochondria Contact Sites Reporters: Strengths and Weaknesses of the Available Approaches. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8157.	4.1	30
45	Quantification of organelle contact sites by split-GFP-based contact site sensors (SPLICS) in living cells. <i>Nature Protocols</i> , 2021, 16, 5287-5308.	12.0	30
46	Calcium, Dopamine and Neuronal Calcium Sensor 1: Their Contribution to Parkinson's Disease. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 55.	2.9	29
47	Sorcin is an early marker of neurodegeneration, Ca ²⁺ dysregulation and endoplasmic reticulum stress associated to neurodegenerative diseases. <i>Cell Death and Disease</i> , 2020, 11, 861.	6.3	29
48	ER-Mitochondria Calcium Transfer, Organelle Contacts and Neurodegenerative Diseases. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1131, 719-746.	1.6	29
49	The ataxia related G1107D mutation of the plasma membrane Ca ²⁺ ATPase isoform 3 affects its interplay with calmodulin and the autoinhibition process. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 165-173.	3.8	25
50	The PMCA pumps in genetically determined neuronal pathologies. <i>Neuroscience Letters</i> , 2018, 663, 2-11.	2.1	21
51	The Endoplasmic Reticulum: Crossroads for Newly Synthesized Polypeptide Chains. <i>Progress in Molecular Biology and Translational Science</i> , 2008, 83, 135-179.	1.7	18
52	Inadequately Written Prescriptions. <i>JAMA - Journal of the American Medical Association</i> , 1973, 226, 999.	7.4	17
53	Spontaneous shaker rat mutant "a" a new model for X-linked tremor-ataxia. <i>DMM Disease Models and Mechanisms</i> , 2016, 9, 553-62.	2.4	17
54	A novel PMCA3 mutation in an ataxic patient with hypomorphic phosphomannomutase 2 (PMM2) heterozygote mutations: Biochemical characterization of the pump defect. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 3303-3312.	3.8	17

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55	Apoptotic signals at the endoplasmic reticulum-mitochondria interface. <i>Advances in Protein Chemistry and Structural Biology</i> , 2021, 126, 307-343.	2.3	16
56	A V1143F mutation in the neuronal-enriched isoform 2 of the PMCA pump is linked with ataxia. <i>Neurobiology of Disease</i> , 2018, 115, 157-166.	4.4	15
57	Inhibition of Ubiquitin Proteasome System Rescues the Defective Sarco(endo)plasmic Reticulum Ca ²⁺ -ATPase (SERCA1) Protein Causing Chianina Cattle Pseudomyotonia. <i>Journal of Biological Chemistry</i> , 2014, 289, 33073-33082.	3.4	14
58	A split-GFP tool reveals differences in the sub-mitochondrial distribution of wt and mutant alpha-synuclein. <i>Cell Death and Disease</i> , 2019, 10, 857.	6.3	14
59	Measurements of Ca ²⁺ Concentration with Recombinant Targeted Luminescent Probes. <i>Methods in Molecular Biology</i> , 2013, 937, 273-291.	0.9	13
60	Ca ²⁺ -activated Nucleotidase 1, a Novel Target Gene for the Transcriptional Repressor DREAM (Downstream Regulatory Element Antagonist Modulator), Is Involved in Protein Folding and Degradation. <i>Journal of Biological Chemistry</i> , 2012, 287, 18478-18491.	3.4	12
61	Angiotensin II Promotes SARS-CoV-2 Infection via Upregulation of ACE2 in Human Bronchial Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5125.	4.1	11
62	Organelles: The Emerging Signalling Chart of Mitochondrial Dynamics. <i>Current Biology</i> , 2018, 28, R73-R75.	3.9	10
63	Calcium Signaling and Mitochondrial Function in Presenilin 2 Knock-Out Mice: Looking for Any Loss-of-Function Phenotype Related to Alzheimer's Disease. <i>Cells</i> , 2021, 10, 204.	4.1	10
64	Calcium Handling by Endoplasmic Reticulum and Mitochondria in a Cell Model of Huntington's Disease. <i>PLOS Currents</i> , 2016, 8, .	1.4	10
65	Regulation of Endoplasmic Reticulum-Mitochondria Tethering and Ca ²⁺ Fluxes by TDP-43 via GSK3 ^β . <i>International Journal of Molecular Sciences</i> , 2021, 22, 11853.	4.1	9
66	Measuring Ca ²⁺ Levels in Subcellular Compartments with Genetically Encoded GFP-Based Indicators. <i>Methods in Molecular Biology</i> , 2019, 1925, 31-42.	0.9	3
67	Physiological cyanide concentrations do not stimulate mitochondrial cytochrome c oxidase activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2112373118.	7.1	3
68	Stable Integration of Inducible SPLICS Reporters Enables Spatio-Temporal Analysis of Multiple Organelle Contact Sites upon Modulation of Cholesterol Traffic. <i>Cells</i> , 2022, 11, 1643.	4.1	3
69	Split Green Fluorescent Protein-Based Contact Site Sensor (SPLICS) for Heterotypic Organelle Juxtaposition as Applied to ER-Mitochondria Proximities. <i>Methods in Molecular Biology</i> , 2021, 2275, 363-378.	0.9	2
70	Monostotic (craniofacial) fibrous dysplasia. <i>Oral Surgery, Oral Medicine, and Oral Pathology</i> , 1978, 45, 156.	0.6	1
71	Etiology and pathogenesis of Parkinson's disease: role of mitochondrial pathology. <i>Research and Reports in Biochemistry</i> , 0, , 55.	1.6	1
72	Mitochondrial Calcium Homeostasis and Implications for Human Health. <i>Food and Nutritional Components in Focus</i> , 2015, , 448-467.	0.1	1

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73	Editorial. Neuroscience Letters, 2018, 663, 1.	2.1	0
74	<i>Call for Papers:</i> Special Issue on Mitochondrial DNA in Health and Disease. DNA and Cell Biology, 2019, 38, 1167-1168.	1.9	0
75	<i>Call for Papers:</i> Special Issue on Mitochondrial DNA in Health and Disease. DNA and Cell Biology, 2019, 38, 1023-1024.	1.9	0
76	EMBO Workshop: Membrane Contact Sites in Health and Disease. Contact (Thousand Oaks (Ventura) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.9	0
77	<i>Call for Papers:</i> Special Issue on Mitochondrial DNA in Health and Disease. DNA and Cell Biology, 2019, 38, 1411-1412.	1.9	0
78	Play Around with mtDNA. DNA and Cell Biology, 2020, 39, 1369-1369.	1.9	0
79	The Plasma Membrane Ca ²⁺ ATPases: Isoform Specificity and Functional Versatility. , 2016, , 13-26.		0
80	A22â€¦Sorcin rescues ca (II) dysregulation and endoplasmic reticulum stress in huntingtonâ€™s disease. , 2018, , .		0