

Marisa Brini

List of Publications by Citations

Source: <https://exaly.com/author-pdf/67492/marisa-brini-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

12,246
citations

48
h-index

110
g-index

126
ext. papers

13,785
ext. citations

6.6
avg, IF

6.09
L-index

#	Paper	IF	Citations
119	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
118	Rapid changes of mitochondrial Ca ²⁺ revealed by specifically targeted recombinant aequorin. <i>Nature</i> , 1992 , 358, 325-7	50.4	839
117	Transient and long-lasting openings of the mitochondrial permeability transition pore can be monitored directly in intact cells by changes in mitochondrial calcein fluorescence. <i>Biophysical Journal</i> , 1999 , 76, 725-34	2.9	584
116	Calcium pumps in health and disease. <i>Physiological Reviews</i> , 2009 , 89, 1341-78	47.9	458
115	Chimeric green fluorescent protein as a tool for visualizing subcellular organelles in living cells. <i>Current Biology</i> , 1995 , 5, 635-42	6.3	439
114	Generation, control, and processing of cellular calcium signals. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2001 , 36, 107-260	8.7	392
113	Transfected aequorin in the measurement of cytosolic Ca ²⁺ concentration ([Ca ²⁺] _c). A critical evaluation. <i>Journal of Biological Chemistry</i> , 1995 , 270, 9896-903	5.4	313
112	Neuronal calcium signaling: function and dysfunction. <i>Cellular and Molecular Life Sciences</i> , 2014 , 71, 2787-814	18.14	298
111	Double labelling of subcellular structures with organelle-targeted GFP mutants in vivo. <i>Current Biology</i> , 1996 , 6, 183-8	6.3	214
110	βSynuclein controls mitochondrial calcium homeostasis by enhancing endoplasmic reticulum-mitochondria interactions. <i>Journal of Biological Chemistry</i> , 2012 , 287, 17914-29	5.4	210
109	Mitochondria, calcium and cell death: a deadly triad in neurodegeneration. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009 , 1787, 335-44	4.6	206
108	The plasma membrane Ca ²⁺ -ATPase and the plasma membrane sodium calcium exchanger cooperate in the regulation of cell calcium. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011 , 3,	10.2	167
107	Enhanced parkin levels favor ER-mitochondria crosstalk and guarantee Ca ²⁺ transfer to sustain cell bioenergetics. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013 , 1832, 495-508	6.9	155
106	Mitochondria as biosensors of calcium microdomains. <i>Cell Calcium</i> , 1999 , 26, 193-9	4	151
105	The Parkinson disease-related protein DJ-1 counteracts mitochondrial impairment induced by the tumour suppressor protein p53 by enhancing endoplasmic reticulum-mitochondria tethering. <i>Human Molecular Genetics</i> , 2013 , 22, 2152-68	5.6	149
104	Calcium homeostasis and mitochondrial dysfunction in striatal neurons of Huntington disease. <i>Journal of Biological Chemistry</i> , 2008 , 283, 5780-9	5.4	144
103	A calcium signaling defect in the pathogenesis of a mitochondrial DNA inherited oxidative phosphorylation deficiency. <i>Nature Medicine</i> , 1999 , 5, 951-4	50.5	135

102	Calcium pumps: structural basis for and mechanism of calcium transmembrane transport. <i>Current Opinion in Chemical Biology</i> , 2000 , 4, 152-61	9.7	130
101	SPLICS: a split green fluorescent protein-based contact site sensor for narrow and wide heterotypic organelle juxtaposition. <i>Cell Death and Differentiation</i> , 2018 , 25, 1131-1145	12.7	108
100	The plasma membrane calcium pump in health and disease. <i>FEBS Journal</i> , 2013 , 280, 5385-97	5.7	107
99	A functional study of plasma-membrane calcium-pump isoform 2 mutants causing digenic deafness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 1516-21	11.5	104
98	Regulation of ER-mitochondria contacts by Parkin via Mfn2. <i>Pharmacological Research</i> , 2018 , 138, 43-56	10.2	97
97	Mutation of plasma membrane Ca ²⁺ ATPase isoform 3 in a family with X-linked congenital cerebellar ataxia impairs Ca ²⁺ homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 14514-9	11.5	93
96	Mitochondrial Ca(2+) and neurodegeneration. <i>Cell Calcium</i> , 2012 , 52, 73-85	4	92
95	Mitochondria, calcium, and endoplasmic reticulum stress in Parkinson disease. <i>BioFactors</i> , 2011 , 37, 228-40	6.1	87
94	Ca(2+) signalling in mitochondria: mechanism and role in physiology and pathology. <i>Cell Calcium</i> , 2003 , 34, 399-405	4	86
93	A comparative functional analysis of plasma membrane Ca ²⁺ pump isoforms in intact cells. <i>Journal of Biological Chemistry</i> , 2003 , 278, 24500-8	5.4	86
92	Nuclear targeting of aequorin. A new approach for measuring nuclear Ca ²⁺ concentration in intact cells. <i>Cell Calcium</i> , 1994 , 16, 259-68	4	86
91	SERCA1 truncated proteins unable to pump calcium reduce the endoplasmic reticulum calcium concentration and induce apoptosis. <i>Journal of Cell Biology</i> , 2001 , 153, 1301-14	7.3	76
90	Calcium signaling in Parkinson disease. <i>Cell and Tissue Research</i> , 2014 , 357, 439-54	4.2	75
89	Calcium in health and disease. <i>Metal Ions in Life Sciences</i> , 2013 , 13, 81-137	2.6	75
88	Intracellular calcium homeostasis and signaling. <i>Metal Ions in Life Sciences</i> , 2013 , 12, 119-68	2.6	73
87	Photoprotein-mediated measurement of calcium ion concentration in mitochondria of living cells. <i>Methods in Enzymology</i> , 1995 , 260, 417-28	1.7	73
86	Targeted recombinant aequorins: tools for monitoring [Ca ²⁺] in the various compartments of a living cell. <i>Microscopy Research and Technique</i> , 1999 , 46, 380-9	2.8	66
85	The Close Encounter Between Alpha-Synuclein and Mitochondria. <i>Frontiers in Neuroscience</i> , 2018 , 12, 388	5.1	64

84	The role of calcium in oligogalacturonide-activated signalling in soybean cells. <i>Planta</i> , 2002 , 215, 596-605	4.7	64
83	Targeting recombinant aequorin to specific intracellular organelles. <i>Methods in Cell Biology</i> , 1994 , 40, 339-58	1.8	63
82	Plasma membrane Ca(2+)-ATPase: from a housekeeping function to a versatile signaling role. <i>Pflugers Archiv European Journal of Physiology</i> , 2009 , 457, 657-64	4.6	59
81	Double-stranded DNA can be translocated across a planar membrane containing purified mitochondrial porin. <i>FASEB Journal</i> , 1998 , 12, 495-502	0.9	59
80	Tau localises within mitochondrial sub-compartments and its caspase cleavage affects ER-mitochondria interactions and cellular Ca handling. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018 , 1864, 3247-3256	6.9	58
79	Inhibitory interaction of the 14-3-3{epsilon} protein with isoform 4 of the plasma membrane Ca(2+)-ATPase pump. <i>Journal of Biological Chemistry</i> , 2005 , 280, 37195-203	5.4	58
78	DNA translocation across planar bilayers containing Bacillus subtilis ion channels. <i>Journal of Biological Chemistry</i> , 1997 , 272, 25275-82	5.4	55
77	Targeting aequorin and green fluorescent protein to intracellular organelles. <i>Gene</i> , 1996 , 173, 113-7	3.8	54
76	The novel mouse mutation Oblivion inactivates the PMCA2 pump and causes progressive hearing loss. <i>PLoS Genetics</i> , 2008 , 4, e1000238	6	53
75	Expression, partial purification and functional properties of the muscle-specific calpain isoform p94. <i>FEBS Journal</i> , 1999 , 265, 839-46		52
74	The novel PMCA2 pump mutation Tommy impairs cytosolic calcium clearance in hair cells and links to deafness in mice. <i>Journal of Biological Chemistry</i> , 2010 , 285, 37693-703	5.4	51
73	Ryanodine receptor defects in muscle genetic diseases. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 322, 1245-55	3.4	51
72	Calcium-sensitive photoproteins. <i>Methods</i> , 2008 , 46, 160-6	4.6	49
71	Alpha-synuclein aggregates activate calcium pump SERCA leading to calcium dysregulation. <i>EMBO Reports</i> , 2018 , 19,	6.5	48
70	New light on mitochondrial calcium. <i>BioFactors</i> , 1998 , 8, 243-53	6.1	41
69	Calcium and endoplasmic reticulum-mitochondria tethering in neurodegeneration. <i>DNA and Cell Biology</i> , 2013 , 32, 140-6	3.6	40
68	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, 231-41	12.7	39
67	NAD+ levels control Ca2+ store replenishment and mitogen-induced increase of cytosolic Ca2+ by Cyclic ADP-ribose-dependent TRPM2 channel gating in human T lymphocytes. <i>Journal of Biological Chemistry</i> , 2012 , 287, 21067-81	5.4	39

66	PINK1/Parkin Mediated Mitophagy, Ca Signalling, and ER-Mitochondria Contacts in Parkinson Disease. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	38
65	Impaired Mitochondrial ATP Production Downregulates Wnt Signaling via ER Stress Induction. <i>Cell Reports</i> , 2019 , 28, 1949-1960.e6	10.6	38
64	Targeting GFP to organelles. <i>Methods in Cell Biology</i> , 1999 , 58, 75-85	1.8	38
63	Alpha-synuclein at the intracellular and the extracellular side: functional and dysfunctional implications. <i>Biological Chemistry</i> , 2017 , 398, 77-100	4.5	37
62	Ca ²⁺ signaling in HEK-293 and skeletal muscle cells expressing recombinant ryanodine receptors harboring malignant hyperthermia and central core disease mutations. <i>Journal of Biological Chemistry</i> , 2005 , 280, 15380-9	5.4	37
61	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 1 Mutations. <i>Journal of Biological Chemistry</i> , 2015 , 290, 16132-41	5.4	35
60	The plasma membrane calcium pumps: focus on the role in (neuro)pathology. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 483, 1116-1124	3.4	35
59	Emerging (and converging) pathways in Parkinson disease: keeping mitochondrial wellness. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 483, 1020-1030	3.4	33
58	Regulation of Cell Calcium and Role of Plasma Membrane Calcium ATPases. <i>International Review of Cell and Molecular Biology</i> , 2017 , 332, 259-296	6	32
57	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, 1045-60	5.6	31
56	Inhibitory interaction of the 14-3-3 proteins with ubiquitous (PMCA1) and tissue-specific (PMCA3) isoforms of the plasma membrane Ca ²⁺ pump. <i>Cell Calcium</i> , 2008 , 43, 550-61	4	30
55	Gene transfer into satellite cell from regenerating muscle: bupivacaine allows beta-Gal transfection and expression in vitro and in vivo. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 1994 , 30A, 131-3	2.6	30
54	Calcium pumps: why so many?. <i>Comprehensive Physiology</i> , 2012 , 2, 1045-60	7.7	28
53	Plasma membrane Ca ²⁺ -ATPase overexpression depletes both mitochondrial and endoplasmic reticulum Ca ²⁺ stores and triggers apoptosis in insulin-secreting BRIN-BD11 cells. <i>Journal of Biological Chemistry</i> , 2010 , 285, 30634-43	5.4	27
52	The prion protein and its paralogue Doppel affect calcium signaling in Chinese hamster ovary cells. <i>Molecular Biology of the Cell</i> , 2005 , 16, 2799-808	3.5	27
51	Mitochondrial Ca(2+) as a key regulator of mitochondrial activities. <i>Advances in Experimental Medicine and Biology</i> , 2012 , 942, 53-73	3.6	26
50	Mutations in PMCA2 and hereditary deafness: a molecular analysis of the pump defect. <i>Cell Calcium</i> , 2011 , 50, 569-76	4	25
49	Functional specificity of PMCA isoforms?. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1099, 237-46.5		25

48	Methods to measure intracellular Ca(2+) fluxes with organelle-targeted aequorin-based probes. <i>Methods in Enzymology</i> , 2014 , 543, 21-45	1.7	24
47	splitGFP Technology Reveals Dose-Dependent ER-Mitochondria Interface Modulation by β Synuclein A53T and A30P Mutants. <i>Cells</i> , 2019 , 8,	7.9	23
46	Mitochondrial calcium signalling in cell death. <i>FEBS Journal</i> , 2005 , 272, 4013-22	5.7	23
45	Interplay of the Ca ²⁺ -binding protein DREAM with presenilin in neuronal Ca ²⁺ signaling. <i>Journal of Biological Chemistry</i> , 2008 , 283, 27494-27503	5.4	21
44	Inhibitory interaction of the plasma membrane Na ⁺ /Ca ²⁺ exchangers with the 14-3-3 proteins. <i>Journal of Biological Chemistry</i> , 2006 , 281, 19645-54	5.4	21
43	Hair cells, plasma membrane Ca ²⁺ ATPase and deafness. <i>International Journal of Biochemistry and Cell Biology</i> , 2012 , 44, 679-83	5.6	20
42	Intracellular targeting of the photoprotein aequorin: A new approach for measuring, in living cells, Ca(2+) concentrations in defined cellular compartments. <i>Cytotechnology</i> , 1993 , 11, S44-6	2.2	20
41	Deletions and mutations in the acidic lipid-binding region of the plasma membrane Ca ²⁺ pump: a study on different splicing variants of isoform 2. <i>Journal of Biological Chemistry</i> , 2010 , 285, 30779-91	5.4	19
40	The most conserved nuclear-encoded polypeptide of cytochrome c oxidase is the putative zinc-binding subunit: primary structure of subunit V from the slime mold <i>Dictyostelium discoideum</i> . <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1991 , 1129, 100-4		17
39	ER-Mitochondria Calcium Transfer, Organelle Contacts and Neurodegenerative Diseases. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1131, 719-746	3.6	17
38	Parkin-dependent regulation of the MCU complex component MICU1. <i>Scientific Reports</i> , 2018 , 8, 14199	4.9	17
37	The ataxia related G1107D mutation of the plasma membrane Ca 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	6.9	16
36	Calcium, Dopamine and Neuronal Calcium Sensor 1: Their Contribution to Parkinson's Disease. <i>Frontiers in Molecular Neuroscience</i> , 2019 , 12, 55	6.1	14
35	TAT-mediated aequorin transduction: an alternative approach for effective calcium measurements in plant cells. <i>Plant and Cell Physiology</i> , 2011 , 52, 2225-35	4.9	14
34	Spontaneous shaker rat mutant - a new model for X-linked tremor/ataxia. <i>DMM Disease Models and Mechanisms</i> , 2016 , 9, 553-62	4.1	14
33	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	6.9	13
32	Recombinant expression of the plasma membrane Na(+)/Ca(2+) exchanger affects local and global Ca(2+) homeostasis in Chinese hamster ovary cells. <i>Journal of Biological Chemistry</i> , 2002 , 277, 38693-9	5.4	13
31	An expanded palette of improved SPLICS reporters detects multiple organelle contacts in vitro and in vivo. <i>Nature Communications</i> , 2020 , 11, 6069	17.4	13

30	The PMCA pumps in genetically determined neuronal pathologies. <i>Neuroscience Letters</i> , 2018 , 663, 2-11	3.3	12
29	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, 33073-82	5.4	12
28	Measurements of Ca ²⁺ concentration with recombinant targeted luminescent probes. <i>Methods in Molecular Biology</i> , 2013 , 937, 273-91	1.4	12
27	ER-Mitochondria Contact Sites Reporters: Strengths and Weaknesses of the Available Approaches. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	10
26	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	7.5	10
25	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, 18478-91	5.4	10
24	Translocation of signalling proteins to the plasma membrane revealed by a new bioluminescent procedure. <i>BMC Cell Biology</i> , 2011 , 12, 27		9
23	Plasma-membrane calcium pumps and hereditary deafness. <i>Biochemical Society Transactions</i> , 2007 , 35, 913-8	5.1	9
22	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	9.8	8
21	Cytosolic free calcium concentration in the mitogenic stimulation of T lymphocytes by anti-CD3 monoclonal antibodies. <i>Cell Calcium</i> , 1994 , 16, 167-80	4	8
20	Ca handling at the mitochondria-ER contact sites in neurodegeneration. <i>Cell Calcium</i> , 2021 , 98, 102453	4	8
19	Lipid-Mediated Modulation of Intracellular Ion Channels and Redox State: Physiopathological Implications. <i>Antioxidants and Redox Signaling</i> , 2018 , 28, 949-972	8.4	7
18	Reduced Mid1 Expression and Delayed Neuromotor Development in daDREAM Transgenic Mice. <i>Frontiers in Molecular Neuroscience</i> , 2012 , 5, 58	6.1	7
17	Calcium Handling by Endoplasmic Reticulum and Mitochondria in a Cell Model of Huntington's Disease. <i>PLOS Currents</i> , 2016 , 8,		7
16	Quantification of organelle contact sites by split-GFP-based contact site sensors (SPLICS) in living cells. <i>Nature Protocols</i> , 2021 , 16, 5287-5308	18.8	5
15	A study of the activity of the plasma membrane Na/Ca exchanger in the cellular environment. <i>Annals of the New York Academy of Sciences</i> , 2002 , 976, 376-81	6.5	4
14	Structure of the promoter region of the gene encoding cytochrome c oxidase subunit V in Dictyostelium. <i>FEBS Journal</i> , 1993 , 211, 411-4		3
13	Mammalian Calcium Pumps in Health and Disease 2014 , 43-53		2

12	Bioluminescent Ca ²⁺ Indicators. <i>Neuromethods</i> , 2010 , 81-100	0.4	2
11	Calcium Pumps 2010 , 943-947		1
10	Plasma Membrane Calcium Pumps 2004 , 211-233		1
9	CHAPTER 27. Mitochondrial Calcium Homeostasis and Implications for Human Health. <i>Food and Nutritional Components in Focus</i> , 448-467		1
8	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	1.4	1
7	Calcium Signaling1		1
6	Special Issue on Mitochondrial DNA in Health and Disease. <i>DNA and Cell Biology</i> , 2019 , 38, 1167-1168	3.6	
5	Measuring Ca ²⁺ in the Nucleoplasm of Intact Cells 2001 , 105-130		
4	The Plasma Membrane Ca ²⁺ ATPases: Isoform Specificity and Functional Versatility 2016 , 13-26		
3	Membrane Transport Plasma Membrane Calcium Pump: Structure and Function 2021 , 1063-1069		
2	Mammalian Calcium Pumps in Health and Disease 2018 , 49-59		
1	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	7.9	