

# Marisa Brini

## List of Publications by Year in descending order

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122  
papers

15,033  
citations

36271

51  
h-index

22808

112  
g-index

126  
all docs

126  
docs citations

126  
times ranked

23589  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	Rapid changes of mitochondrial Ca <sup>2+</sup> revealed by specifically targeted recombinant aequorin. <i>Nature</i> , 1992, 358, 325-327.	13.7	902
3	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, 725-734.	0.2	628
4	Calcium Pumps in Health and Disease. <i>Physiological Reviews</i> , 2009, 89, 1341-1378.	13.1	553
5	Neuronal calcium signaling: function and dysfunction. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 2787-2814.	2.4	501
6	Chimeric green fluorescent protein as a tool for visualizing subcellular organelles in living cells. <i>Current Biology</i> , 1995, 5, 635-642.	1.8	492
7	Generation, Control, and Processing of Cellular Calcium Signals. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2001, 36, 107-260.	2.3	459
8	Transfected Aequorin in the Measurement of Cytosolic Ca <sup>2+</sup> Concentration ([Ca <sup>2+</sup> ] <sub>c</sub> ). <i>Journal of Biological Chemistry</i> , 1995, 270, 9896-9903.	1.6	342
9	Î±-Synuclein Controls Mitochondrial Calcium Homeostasis by Enhancing Endoplasmic Reticulum-Mitochondria Interactions. <i>Journal of Biological Chemistry</i> , 2012, 287, 17914-17929.	1.6	256
10	Mitochondria, calcium and cell death: A deadly triad in neurodegeneration. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 335-344.	0.5	254
11	The Plasma Membrane Ca <sup>2+</sup> 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, a004168-a004168.	2.3	237
12	Double labelling of subcellular structures with organelle-targeted GFP mutants in vivo. <i>Current Biology</i> , 1996, 6, 183-188.	1.8	225
13	Enhanced parkin levels favor ER-mitochondria crosstalk and guarantee Ca <sup>2+</sup> transfer to sustain cell bioenergetics. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013, 1832, 495-508.	1.8	185
14	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, 2152-2168.	1.4	177
15	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.	5.0	174
16	Calcium Homeostasis and Mitochondrial Dysfunction in Striatal Neurons of Huntington Disease. <i>Journal of Biological Chemistry</i> , 2008, 283, 5780-5789.	1.6	168
17	Mitochondria as biosensors of calcium microdomains. <i>Cell Calcium</i> , 1999, 26, 193-200.	1.1	164
18	A calcium signaling defect in the pathogenesis of a mitochondrial DNA inherited oxidative phosphorylation deficiency. <i>Nature Medicine</i> , 1999, 5, 951-954.	15.2	154

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19	Regulation of ER-mitochondria contacts by Parkin via Mfn2. <i>Pharmacological Research</i> , 2018, 138, 43-56.	3.1	152
20	Calcium pumps: structural basis for and mechanism of calcium transmembrane transport. <i>Current Opinion in Chemical Biology</i> , 2000, 4, 152-161.	2.8	147
21	The plasma membrane calcium pump in health and disease. <i>FEBS Journal</i> , 2013, 280, 5385-5397.	2.2	139
22	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, 1516-1521.	3.3	116
23	Intracellular Calcium Homeostasis and Signaling. <i>Metal Ions in Life Sciences</i> , 2013, 12, 119-168.	2.8	116
24	Mutation of plasma membrane Ca <sup>2+</sup> ATPase isoform 3 in a family with X-linked congenital cerebellar ataxia impairs Ca <sup>2+</sup> homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14514-14519.	3.3	113
25	Mitochondrial Ca <sup>2+</sup> and neurodegeneration. <i>Cell Calcium</i> , 2012, 52, 73-85.	1.1	110
26	PINK1/Parkin Mediated Mitophagy, Ca <sup>2+</sup> Signalling, and ER-Mitochondria Contacts in Parkinson's Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1772.	1.8	105
27	Calcium in Health and Disease. <i>Metal Ions in Life Sciences</i> , 2013, 13, 81-137.	2.8	105
28	Mitochondria, calcium, and endoplasmic reticulum stress in Parkinson's disease. <i>BioFactors</i> , 2011, 37, 228-240.	2.6	101
29	Calcium signaling in Parkinson's disease. <i>Cell and Tissue Research</i> , 2014, 357, 439-454.	1.5	100
30	The Close Encounter Between Alpha-Synuclein and Mitochondria. <i>Frontiers in Neuroscience</i> , 2018, 12, 388.	1.4	99
31	Ca <sup>2+</sup> signalling in mitochondria: mechanism and role in physiology and pathology. <i>Cell Calcium</i> , 2003, 34, 399-405.	1.1	95
32	A Comparative Functional Analysis of Plasma Membrane Ca <sup>2+</sup> Pump Isoforms in Intact Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 24500-24508.	1.6	90
33	Nuclear targeting of aequorin. <i>Cell Calcium</i> , 1994, 16, 259-268.	1.1	88
34	Alpha-synuclein aggregates activate calcium pump SERCA leading to calcium dysregulation. <i>EMBO Reports</i> , 2018, 19, .	2.0	88
35	Tau localises within mitochondrial sub-compartments and its caspase cleavage affects ER-mitochondria interactions and cellular Ca <sup>2+</sup> handling. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3247-3256.	1.8	88
36	Serca1 Truncated Proteins Unable to Pump Calcium Reduce the Endoplasmic Reticulum Calcium Concentration and Induce Apoptosis. <i>Journal of Cell Biology</i> , 2001, 153, 1301-1314.	2.3	87

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37	Targeted recombinant aequorins: Tools for monitoring [Ca <sup>2+</sup> ] in the various compartments of a living cell. , 1999, 46, 380-389.		81
38	[30] Photoprotein-mediated measurement of calcium ion concentration in mitochondria of living cells. <i>Methods in Enzymology</i> , 1995, 260, 417-428.	0.4	77
39	Plasma membrane Ca <sup>2+</sup> -ATPase: from a housekeeping function to a versatile signaling role. <i>Pflugers Archiv European Journal of Physiology</i> , 2009, 457, 657-664.	1.3	73
40	The role of calcium in oligogalacturonide-activated signalling in soybean cells. <i>Planta</i> , 2002, 215, 596-605.	1.6	69
41	Targeting Recombinant Aequorin to Specific Intracellular Organelles. <i>Methods in Cell Biology</i> , 1994, 40, 339-358.	0.5	68
42	Inhibitory Interaction of the 14-3-3 $\mu$ Protein with Isoform 4 of the Plasma Membrane Ca <sup>2+</sup> -ATPase Pump. <i>Journal of Biological Chemistry</i> , 2005, 280, 37195-37203.	1.6	67
43	Double-stranded DNA can be translocated across a planar membrane containing purified mitochondrial porin. <i>FASEB Journal</i> , 1998, 12, 495-502.	0.2	62
44	Targeting aequorin and green fluorescent protein to intracellular organelles. <i>Gene</i> , 1996, 173, 113-117.	1.0	61
45	Ryanodine receptor defects in muscle genetic diseases. <i>Biochemical and Biophysical Research Communications</i> , 2004, 322, 1245-1255.	1.0	60
46	DNA Translocation Across Planar Bilayers Containing <i>Bacillus subtilis</i> Ion Channels. <i>Journal of Biological Chemistry</i> , 1997, 272, 25275-25282.	1.6	58
47	Ca <sup>2+</sup> 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, 15380-15389.	1.6	58
48	Expression, partial purification and functional properties of the muscle-specific calpain isoform p94. <i>FEBS Journal</i> , 1999, 265, 839-846.	0.2	56
49	Calcium-sensitive photoproteins. <i>Methods</i> , 2008, 46, 160-166.	1.9	56
50	The Novel Mouse Mutation Oblivion Inactivates the PMCA2 Pump and Causes Progressive Hearing Loss. <i>PLoS Genetics</i> , 2008, 4, e1000238.	1.5	56
51	Impaired Mitochondrial ATP Production Downregulates Wnt Signaling via ER Stress Induction. <i>Cell Reports</i> , 2019, 28, 1949-1960.e6.	2.9	56
52	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, 37693-37703.	1.6	53
53	Calcium and Endoplasmic Reticulum-Mitochondria Tethering in Neurodegeneration. <i>DNA and Cell Biology</i> , 2013, 32, 140-146.	0.9	53
54	Reduced mitochondrial Ca <sup>2+</sup> 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.	5.0	51

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55	NAD <sup>+</sup> Levels Control Ca <sup>2+</sup> Store Replenishment and Mitogen-induced Increase of Cytosolic Ca <sup>2+</sup> by Cyclic ADP-ribose-dependent TRPM2 Channel Gating in Human T Lymphocytes. <i>Journal of Biological Chemistry</i> , 2012, 287, 21067-21081.	1.6	50
56	Alpha-synuclein at the intracellular and the extracellular side: functional and dysfunctional implications. <i>Biological Chemistry</i> , 2017, 398, 77-100.	1.2	50
57	Regulation of Cell Calcium and Role of Plasma Membrane Calcium ATPases. <i>International Review of Cell and Molecular Biology</i> , 2017, 332, 259-296.	1.6	49
58	Ca <sup>2+</sup> handling at the mitochondria-ER contact sites in neurodegeneration. <i>Cell Calcium</i> , 2021, 98, 102453.	1.1	49
59	The plasma membrane calcium pumps: focus on the role in (neuro)pathology. <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 1116-1124.	1.0	44
60	New light on mitochondrial calcium. <i>BioFactors</i> , 1998, 8, 243-253.	2.6	43
61	An expanded palette of improved SPLICS reporters detects multiple organelle contacts in vitro and in vivo. <i>Nature Communications</i> , 2020, 11, 6069.	5.8	43
62	Chapter 5: Targeting GFP to Organelles. <i>Methods in Cell Biology</i> , 1998, 58, 75-85.	0.5	42
63	Emerging (and converging) pathways in Parkinson's disease: keeping mitochondrial wellness. <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 1020-1030.	1.0	42
64	A Novel Mutation in Isoform 3 of the Plasma Membrane Ca <sup>2+</sup> Pump Impairs Cellular Ca <sup>2+</sup> Homeostasis in a Patient with Cerebellar Ataxia and Laminin Subunit 11± Mutations. <i>Journal of Biological Chemistry</i> , 2015, 290, 16132-16141.	1.6	41
65	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.	1.4	38
66	Mitochondrial Ca <sup>2+</sup> as a Key Regulator of Mitochondrial Activities. <i>Advances in Experimental Medicine and Biology</i> , 2012, 942, 53-73.	0.8	36
67	Methods to Measure Intracellular Ca <sup>2+</sup> Fluxes with Organelle-Targeted Aequorin-Based Probes. <i>Methods in Enzymology</i> , 2014, 543, 21-45.	0.4	35
68	Inhibitory interaction of the 14-3-3 proteins with ubiquitous (PMCA1) and tissue-specific (PMCA3) isoforms of the plasma membrane Ca <sup>2+</sup> pump. <i>Cell Calcium</i> , 2008, 43, 550-561.	1.1	34
69	Calcium Pumps: Why So Many?. , 2012, 2, 1045-1060.		34
70	splitGFP Technology Reveals Dose-Dependent ER-Mitochondria Interface Modulation by Î±-Synuclein A53T and A30P Mutants. <i>Cells</i> , 2019, 8, 1072.	1.8	34
71	Gene transfer into satellite cell from regenerating muscle: Bupivacaine allows Î²-gal transfection and expression in vitro and in vivo. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 1994, 30, 131-133.	0.7	33
72	Plasma Membrane Ca <sup>2+</sup> -ATPase Overexpression Depletes Both Mitochondrial and Endoplasmic Reticulum Ca <sup>2+</sup> Stores and Triggers Apoptosis in Insulin-secreting BRIN-BD11 Cells. <i>Journal of Biological Chemistry</i> , 2010, 285, 30634-30643.	1.6	33

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73	Mutations in PMCA2 and hereditary deafness: A molecular analysis of the pump defect. <i>Cell Calcium</i> , 2011, 50, 569-576.	1.1	31
74	Parkin-dependent regulation of the MCU complex component MICU1. <i>Scientific Reports</i> , 2018, 8, 14199.	1.6	31
75	ER-Mitochondria Contact Sites Reporters: Strengths and Weaknesses of the Available Approaches. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8157.	1.8	30
76	Quantification of organelle contact sites by split-GFP-based contact site sensors (SPLICS) in living cells. <i>Nature Protocols</i> , 2021, 16, 5287-5308.	5.5	30
77	Calcium, Dopamine and Neuronal Calcium Sensor 1: Their Contribution to Parkinson's Disease. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 55.	1.4	29
78	ER-Mitochondria Calcium Transfer, Organelle Contacts and Neurodegenerative Diseases. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1131, 719-746.	0.8	29
79	The Prion Protein and Its Parologue Doppel Affect Calcium Signaling in Chinese Hamster Ovary Cells. <i>Molecular Biology of the Cell</i> , 2005, 16, 2799-2808.	0.9	28
80	Functional Specificity of PMCA Isoforms?. <i>Annals of the New York Academy of Sciences</i> , 2007, 1099, 237-246.	1.8	28
81	Mitochondrial calcium signalling in cell death. <i>FEBS Journal</i> , 2005, 272, 4013-4022.	2.2	25
82	The ataxia related G1107D mutation of the plasma membrane Ca <sup>2+</sup> 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.	1.8	25
83	Inhibitory Interaction of the Plasma Membrane Na <sup>+</sup> /Ca <sup>2+</sup> Exchangers with the 14-3-3 Proteins. <i>Journal of Biological Chemistry</i> , 2006, 281, 19645-19654.	1.6	24
84	Intracellular targeting of the photoprotein aequorin: A new approach for measuring, in living cells, Ca <sup>2+</sup> concentrations in defined cellular compartments. <i>Cytotechnology</i> , 1993, 11, S44-S46.	0.7	23
85	Interplay of the Ca <sup>2+</sup> -binding Protein DREAM with Presenilin in Neuronal Ca <sup>2+</sup> Signaling. <i>Journal of Biological Chemistry</i> , 2008, 283, 27494-27503.	1.6	23
86	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, 100-104.	2.4	22
87	Deletions and Mutations in the Acidic Lipid-binding Region of the Plasma Membrane Ca <sup>2+</sup> Pump. <i>Journal of Biological Chemistry</i> , 2010, 285, 30779-30791.	1.6	22
88	The PMCA pumps in genetically determined neuronal pathologies. <i>Neuroscience Letters</i> , 2018, 663, 2-11.	1.0	21
89	Hair cells, plasma membrane Ca <sup>2+</sup> ATPase and deafness. <i>International Journal of Biochemistry and Cell Biology</i> , 2012, 44, 679-683.	1.2	20
90	TAT-Mediated Aequorin Transduction: An Alternative Approach for Effective Calcium Measurements in Plant Cells. <i>Plant and Cell Physiology</i> , 2011, 52, 2225-2235.	1.5	17

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91	Spontaneous shaker rat mutant "a new model for X-linked tremor-ataxia. <i>DMM Disease Models and Mechanisms</i> , 2016, 9, 553-62.	1.2	17
92	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.	1.8	17
93	Reduced Mid1 Expression and Delayed Neuromotor Development in daDREAM Transgenic Mice. <i>Frontiers in Molecular Neuroscience</i> , 2012, 5, 58.	1.4	15
94	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.	2.1	15
95	Recombinant Expression of the Plasma Membrane Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger Affects Local and Global Ca <sup>2+</sup> Homeostasis in Chinese Hamster Ovary Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 38693-38699.	1.6	14
96	Inhibition of Ubiquitin Proteasome System Rescues the Defective Sarco(endo)plasmic Reticulum Ca <sup>2+</sup> -ATPase (SERCA1) Protein Causing Chianina Cattle Pseudomyotonia. <i>Journal of Biological Chemistry</i> , 2014, 289, 33073-33082.	1.6	14
97	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.	2.7	14
98	Measurements of Ca <sup>2+</sup> Concentration with Recombinant Targeted Luminescent Probes. <i>Methods in Molecular Biology</i> , 2013, 937, 273-291.	0.4	13
99	Ca <sup>2+</sup> -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.	1.6	12
100	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.	1.8	11
101	Plasma-membrane calcium pumps and hereditary deafness. <i>Biochemical Society Transactions</i> , 2007, 35, 913-918.	1.6	10
102	Calcium Handling by Endoplasmic Reticulum and Mitochondria in a Cell Model of Huntington's Disease. <i>PLOS Currents</i> , 2016, 8, .	1.4	10
103	Cytosolic free calcium concentration in the mitogenic stimulation of T lymphocytes by anti-CD3 monoclonal antibodies. <i>Cell Calcium</i> , 1994, 16, 167-180.	1.1	9
104	Translocation of signalling proteins to the plasma membrane revealed by a new bioluminescent procedure. <i>BMC Cell Biology</i> , 2011, 12, 27.	3.0	9
105	Lipid-Mediated Modulation of Intracellular Ion Channels and Redox State: Physiopathological Implications. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 949-972.	2.5	8
106	Monitoring calcium handling by the plant endoplasmic reticulum with a low-Ca <sup>2+</sup> affinity targeted aequorin reporter. <i>Plant Journal</i> , 2022, 109, 1014-1027.	2.8	5
107	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, 376-381.	1.8	4
108	Structure of the promoter region of the gene encoding cytochrome c oxidase subunit V in <i>Dictyostelium</i> . <i>FEBS Journal</i> , 1993, 211, 411-414.	0.2	3

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109	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.	1.8	3
110	Bioluminescent Ca <sup>2+</sup> Indicators. <i>Neuromethods</i> , 2010, , 81-100.	0.2	2
111	Mammalian Calcium Pumps in Health and Disease. , 2014, , 43-53.		2
112	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.	0.4	2
113	The PLEKHA7-PDZD11 complex regulates the localization of the calcium pump PMCA and calcium handling in cultured cells. <i>Journal of Biological Chemistry</i> , 2022, 298, 102138.	1.6	2
114	Calcium Pumps. , 2010, , 943-947.		1
115	Mitochondrial Calcium Homeostasis and Implications for Human Health. <i>Food and Nutritional Components in Focus</i> , 2015, , 448-467.	0.1	1
116	Editorial. <i>Neuroscience Letters</i> , 2018, 663, 1.	1.0	0
117	Mammalian Calcium Pumps in Health and Disease. , 2018, , 49-59.		0
118	<i>Call for Papers:</i> Special Issue on Mitochondrial DNA in Health and Disease. <i>DNA and Cell Biology</i> , 2019, 38, 1167-1168.	0.9	0
119	Play Around with mtDNA. <i>DNA and Cell Biology</i> , 2020, 39, 1369-1369.	0.9	0
120	Membrane Transport   Plasma Membrane Calcium Pump: Structure and Function. , 2021, , 1063-1069.		0
121	Measuring Ca <sup>2+</sup> in the Nucleoplasm of Intact Cells. , 2001, , 105-130.		0
122	The Plasma Membrane Ca <sup>2+</sup> ATPases: Isoform Specificity and Functional Versatility. , 2016, , 13-26.		0