

# Ana M Mata

## List of Publications by Year in descending order

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67  
papers

1,753  
citations

304743

22  
h-index

289244

40  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1451  
citing authors

#	ARTICLE	IF	CITATIONS
1	Distribution of two distinct Ca <sup>2+</sup> -ATPase-like proteins and their relationships to the agonist-sensitive calcium store in adrenal chromaffin cells. <i>Nature</i> , 1989, 342, 72-74.	27.8	205
2	Reversible inactivation of <i>Saccharomyces cerevisiae</i> glutathione reductase under reducing conditions. <i>Archives of Biochemistry and Biophysics</i> , 1984, 228, 1-12.	3.0	136
3	Glycogen Synthase Kinase-3 Plays a Crucial Role in Tau Exon 10 Splicing and Intranuclear Distribution of SC35. <i>Journal of Biological Chemistry</i> , 2004, 279, 3801-3806.	3.4	122
4	The Plasma Membrane Ca <sup>2+</sup> -ATPase Isoform 4 Is Localized in Lipid Rafts of Cerebellum Synaptic Plasma Membranes. <i>Journal of Biological Chemistry</i> , 2006, 281, 447-453.	3.4	90
5	The position of the ATP binding site on the (Ca <sup>2+</sup> + Mg <sup>2+</sup> )-ATPase. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1987, 897, 207-216.	2.6	68
6	Ca <sup>2+</sup> Transport by Reconstituted Synaptosomal ATPase Is Associated with H <sup>+</sup> Countertransport and Net Charge Displacement. <i>Journal of Biological Chemistry</i> , 1998, 273, 18230-18234.	3.4	65
7	Altered Ca <sup>2+</sup> dependence of synaptosomal plasma membrane Ca <sup>2+</sup> -ATPase in human brain affected by Alzheimer's disease. <i>FASEB Journal</i> , 2009, 23, 1826-1834.	0.5	63
8	Silencing the SPCA1 (Secretory Pathway Ca <sup>2+</sup> -ATPase Isoform 1) Impairs Ca <sup>2+</sup> Homeostasis in the Golgi and Disturbs Neural Polarity. <i>Journal of Neuroscience</i> , 2009, 29, 12174-12182.	3.6	57
9	STIM1 deficiency is linked to Alzheimer's disease and triggers cell death in SH-SY5Y cells by upregulation of L-type voltage-operated Ca <sup>2+</sup> entry. <i>Journal of Molecular Medicine</i> , 2018, 96, 1061-1079.	3.9	54
10	Evidence for the cytoplasmic location of the N- and C-terminal segments of sarcoplasmic reticulum (Ca <sup>2+</sup> -Mg <sup>2+</sup> )-ATPase. <i>Biochemical and Biophysical Research Communications</i> , 1989, 161, 683-688.	2.1	46
11	Evaluation of manganese uptake and toxicity in mouse brain during continuous MnCl <sub>2</sub> administration using osmotic pumps. <i>Contrast Media and Molecular Imaging</i> , 2012, 7, 426-434.	0.8	44
12	Purification of the synaptosomal plasma membrane (Ca <sup>2+</sup> + Mg <sup>2+</sup> )-ATPase from pig brain. <i>Biochemical Journal</i> , 1996, 315, 183-187.	3.7	42
13	Calcium pumps in the central nervous system. <i>Brain Research Reviews</i> , 2005, 49, 398-405.	9.0	41
14	Calmodulin antagonizes amyloid- $\beta^2$ peptides-mediated inhibition of brain plasma membrane Ca <sup>2+</sup> -ATPase. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2012, 1822, 961-969.	3.8	40
15	High affinity binding of amyloid $\beta^2$ -peptide to calmodulin: Structural and functional implications. <i>Biochemical and Biophysical Research Communications</i> , 2017, 486, 992-997.	2.1	37
16	Functional and immunocytochemical evidence for the expression and localization of the secretory pathway Ca <sup>2+</sup> -ATPase isoform 1 (SPCA1) in cerebellum relative to other Ca <sup>2+</sup> pumps. <i>Journal of Neurochemistry</i> , 2007, 103, 1009-1018.	3.9	31
17	Inhibition of PMCA activity by tau as a function of aging and Alzheimer's neuropathology. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 1465-1476.	3.8	30
18	Activity and localization of the Secretory Pathway Ca <sup>2+</sup> -ATPase isoform 1 (SPCA1) in different areas of the mouse brain during postnatal development. <i>Molecular and Cellular Neurosciences</i> , 2008, 38, 461-473.	2.2	29

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19	Localization of endoplasmic reticulum and plasma membrane Ca <sup>2+</sup> -ATPases in subcellular fractions and sections of pig cerebellum. <i>European Journal of Neuroscience</i> , 2004, 19, 542-551.	2.6	28
20	Presynaptic Control of Glycine Transporter 2 (GlyT2) by Physical and Functional Association with Plasma Membrane Ca <sup>2+</sup> -ATPase (PMCA) and Na <sup>+</sup> -Ca <sup>2+</sup> Exchanger (NCX). <i>Journal of Biological Chemistry</i> , 2014, 289, 34308-34324.	3.4	26
21	The interaction of ethanol with reconstituted synaptosomal plasma membrane Ca <sup>2+</sup> -ATPase. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004, 1665, 75-80.	2.6	25
22	Ontogeny of ATP hydrolysis and isoform expression of the Plasma Membrane Ca <sup>2+</sup> -ATPase in mouse brain. <i>BMC Neuroscience</i> , 2009, 10, 112.	1.9	24
23	Impairment of the activity of the plasma membrane Ca <sup>2+</sup> -ATPase in Alzheimer's disease. <i>Biochemical Society Transactions</i> , 2011, 39, 819-822.	3.4	23
24	The Modulation of Ca <sup>2+</sup> Binding to Sarcoplasmic Reticulum ATPase by ATP Analogues Is pH-dependent. <i>Journal of Biological Chemistry</i> , 1995, 270, 27160-27164.	3.4	22
25	Characterization of the Intracellular and the Plasma Membrane Ca <sup>2+</sup> -ATPases in Fractionated Pig Brain Membranes Using Calcium Pump Inhibitors. <i>Archives of Biochemistry and Biophysics</i> , 1998, 351, 272-278.	3.0	22
26	The redox interconversion mechanism of <i>Saccharomyces cerevisiae</i> glutathione reductase. <i>FEBS Journal</i> , 1985, 151, 275-281.	0.2	21
27	Labeling the calcium-magnesium-ATPase of sarcoplasmic reticulum at Glu-439 with 5-(bromomethyl)fluorescein. <i>Biochemistry</i> , 1993, 32, 6095-6103.	2.5	21
28	A developmental profile of the levels of calcium pumps in chick cerebellum. <i>Journal of Neurochemistry</i> , 2005, 95, 673-683.	3.9	21
29	Functional interplay between plasma membrane Ca <sup>2+</sup> -ATPase, amyloid $\beta$ -peptide and tau. <i>Neuroscience Letters</i> , 2018, 663, 55-59.	2.1	20
30	Plasma membrane Ca <sup>2+</sup> -ATPases in the nervous system during development and ageing. <i>World Journal of Biological Chemistry</i> , 2010, 1, 229.	4.3	20
31	Ca <sup>2+</sup> Transport by the Synaptosomal Plasma Membrane Ca <sup>2+</sup> -ATPase and the Effect of Thioridazine. <i>Biochemistry</i> , 2004, 43, 2353-2358.	2.5	19
32	Developmental distribution of plasma membrane Ca <sup>2+</sup> -ATPase isoforms in chick cerebellum. <i>Developmental Dynamics</i> , 2007, 236, 1227-1236.	1.8	19
33	Localization of Cys-344 on the (Ca <sup>2+</sup> -Mg <sup>2+</sup> )-ATPase of sarcoplasmic reticulum using resonance energy transfer. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1993, 1147, 6-12.	2.6	18
34	Reactivity of lysyl residues on the (calcium-magnesium)-ATPase to 7-amino-4-methylcoumarin-3-acetic acid succinimidyl ester. <i>Biochemistry</i> , 1993, 32, 356-362.	2.5	17
35	High levels of $M^{2+}$ inhibit secretory pathway $C^{2+}$ / $M^{2+}$ -ATPase ( $SPCA$ ) activity and cause Golgi fragmentation in neurons and glia. <i>Journal of Neurochemistry</i> , 2012, 123, 824-836.	3.9	16
36	Phospholipids and calmodulin modulate the inhibition of PMCA activity by tau. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 1028-1035.	4.1	16

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37	Methylene blue activates the PMCA activity and cross-interacts with amyloid $\beta$ -peptide, blocking $\text{A}\beta$ -mediated PMCA inhibition. <i>Neuropharmacology</i> , 2018, 139, 163-172.	4.1	15
38	Dependence of the fluorescence of fluorescein labelled $(\text{Ca}^{2+}, \text{Mg}^{2+})$ -ATPase upon the lipid to protein ratio in sarcoplasmic reticulum reconstituted systems. <i>Biochemical and Biophysical Research Communications</i> , 1985, 133, 176-182.	2.1	14
39	Binding of Amyloid $\beta$ (1-42)-Calmodulin Complexes to Plasma Membrane Lipid Rafts in Cerebellar Granule Neurons Alters Resting Cytosolic Calcium Homeostasis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1984.	4.1	14
40	Chemical crosslinking and enzyme kinetics provide no evidence for a regulatory role for the 53 kDa glycoprotein of sarcoplasmic reticulum in calcium transport. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1991, 1064, 139-147.	2.6	13
41	Heterologous Microarray Analysis of Transcriptome Alterations in <i>Mus spretus</i> Mice Living in an Industrial Settlement. <i>Environmental Science &amp; Technology</i> , 2014, 48, 2183-2192.	10.0	13
42	The Relevance of Amyloid $\beta$ -Calmodulin Complexation in Neurons and Brain Degeneration in Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4976.	4.1	13
43	Methylene Blue Blocks and Reverses the Inhibitory Effect of Tau on PMCA Function. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3521.	4.1	12
44	Probing the nucleotide-binding site of sarcoplasmic reticulum $(\text{Ca}^{2+} - \text{Mg}^{2+})$ -ATPase with anti-fluorescein antibodies. <i>FEBS Letters</i> , 1989, 253, 273-275.	2.8	11
45	Mapping epitopes on the $(\text{Ca}^{2+}\text{Mg}^{2+})$ -ATPase of sarcoplasmic reticulum using fusion proteins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1991, 1073, 585-592.	2.4	11
46	Effect of spermine on the activity of synaptosomal plasma membrane $\text{Ca}^{2+}$ -ATPase reconstituted in neutral or acidic phospholipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003, 1611, 197-203.	2.6	10
47	The endoplasmic reticulum $\text{Ca}^{2+}$ -ATPase SERCA2b is upregulated in activated microglia and its inhibition causes opposite effects on migration and phagocytosis. <i>Glia</i> , 2021, 69, 842-857.	4.9	10
48	Sorcini Activates the Brain PMCA and Blocks the Inhibitory Effects of Molecular Markers of Alzheimer's Disease on the Pump Activity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6055.	4.1	9
49	Gold Compounds Inhibit the $\text{Ca}^{2+}$ -ATPase Activity of Brain PMCA and Human Neuroblastoma SH-SY5Y Cells and Decrease Cell Viability. <i>Metals</i> , 2021, 11, 1934.	2.3	7
50	Design and Experimental Evaluation of a Peptide Antagonist against Amyloid $\beta$ (1-42) Interactions with Calmodulin and Calbindin-D28k. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2289.	4.1	4
51	Use of anti-peptide antibodies to study the transmembranous topography and structure-activity relationships of $(\text{Ca}^{2+}\text{Mg}^{2+})$ -ATPase. <i>Biochemical Society Transactions</i> , 1989, 17, 708-709.	3.4	3
52	Studies of the structure and function of sarcoplasmic reticulum $(\text{Ca}^{2+}\text{Mg}^{2+})$ -ATPase using immunological approaches. <i>Biochemical Society Transactions</i> , 1992, 20, 550-554.	3.4	3
53	The Plasma Membrane $\text{Ca}^{2+}$ -ATPase, a Molecular Target for Tau-induced Cytosolic Calcium Dysregulation. <i>Neuroscience</i> , 2022, , .	2.3	3
54	Effect of the detergent C12E8 on the binding of monoclonal antibodies to the $(\text{Ca}^{2+}\text{Mg}^{2+})$ -ATPase of rabbit skeletal sarcoplasmic reticulum. <i>Biochemical Society Transactions</i> , 1990, 18, 603-603.	3.4	2

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55	Identification of two types of Ca <sup>2+</sup> transport ATPases in pig brain by specific antibodies. <i>Biochemical Society Transactions</i> , 1995, 23, 571S-571S.	3.4	2
56	Localization of intracellular and plasma membrane Ca <sup>2+</sup> -ATPases in the cerebellum. <i>Cerebellum</i> , 2005, 4, 82-89.	2.5	2
57	An improved method for expression and purification of functional human Ca <sup>2+</sup> transporter PMCA4b in <i>Saccharomyces cerevisiae</i> . <i>Protein Expression and Purification</i> , 2016, 120, 51-58.	1.3	2
58	Effect of monoclonal antibodies raised against Ca <sup>2+</sup> ,Mg <sup>2+</sup> -ATPase from rabbit skeletal muscle sarcoplasmic reticulum on ATPase activity and its correlation with epitope location. <i>Biochemical Society Transactions</i> , 1988, 16, 771-772.	3.4	0
59	Use of antibodies to detect chemically cross-linked products from sarcoplasmic reticulum. <i>Biochemical Society Transactions</i> , 1989, 17, 1103-1104.	3.4	0
60	Probing the nucleotide binding site of sarcoplasmic reticulum (Ca <sup>2+</sup> -Mg <sup>2+</sup> )-ATPase with anti-fluorescein antibodies. <i>Biochemical Society Transactions</i> , 1989, 17, 1105-1106.	3.4	0
61	The effect of a monoclonal antibody on specific steps of the reaction sequence of the (Ca <sup>2+</sup> +Mg <sup>2+</sup> )-ATPase from sarcoplasmic reticulum. <i>Biochemical Society Transactions</i> , 1991, 19, 205S-205S.	3.4	0
62	An examination of the transmembranous organisation of the sarcoplasmic reticulum (Ca <sup>2+</sup> +Mg <sup>2+</sup> )-ATPase using antipeptide antibodies. <i>Biochemical Society Transactions</i> , 1992, 20, 308S-308S.	3.4	0
63	Evidence for the luminal location of the 53 kDa glycoprotein of sarcoplasmic reticulum. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1993, 1146, 265-274.	2.6	0
64	EVIDENCE THAT AN ANTI-SERCA1 MONOCLONAL ANTIBODY RECOGNIZES THE SERCA2b CALCIUM PUMP IN PIG BRAIN. <i>Biochemical Society Transactions</i> , 1997, 25, 169S-169S.	3.4	0
65	Impairment of PMCA Activity by Amyloid $\beta$ -Peptide in Membranes from Alzheimer's Disease-Affected Brain and from Other Model Systems. <i>Biophysical Journal</i> , 2010, 98, 170a.	0.5	0
66	Calmodulin Prevents the Inhibitory Effect of Neurotoxic $\beta$ -Amyloid Peptide on Synaptosomal Plasma Membrane Ca <sup>2+</sup> -ATPase. <i>Biophysical Journal</i> , 2012, 102, 508a.	0.5	0
67	Special Issue "Molecular and Cellular Mechanisms of Action of Markers of Tissue Degeneration" <i>International Journal of Molecular Sciences</i> , 2022, 23, 6358.	4.1	0