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## Approaches to studying the mechanisms of ATP synthesis in sarcoplasmic reticulum

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#	Paper	IF	Citations
69	Effect of ADP on the rate of acetyl phosphate hydrolysis by the Ca <sup>2+</sup> -ATPase of sarcoplasmic reticulum. <i>FEBS Journal</i> , <b>1989</b> , 186, 339-42		1
68	K(+)- and Mg <sup>2+</sup> -dependent hydrolysis of acetyl phosphate catalyzed by the (Ca <sup>2+</sup> + Mg <sup>2+</sup> )-ATPase of sarcoplasmic reticulum. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1990</b> , 1030, 152-6	3.8	1
67	Similarities between the effects of dimethyl sulfoxide and calmodulin on the red blood cell Ca <sup>2+</sup> -ATPase. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1990</b> , 1026, 87-92	3.8	15
66	Infrared spectroscopic signals arising from ligand binding and conformational changes in the catalytic cycle of sarcoplasmic reticulum calcium ATPase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1991</b> , 1057, 115-23	4.6	64
65	Effects of a Ca <sup>2+</sup> gradient and water activity on the phosphorylation of Ca(2+)-ATPase by Pi. <i>FEBS Letters</i> , <b>1991</b> , 288, 10-2	3.8	1
64	Correlation between Ca <sup>2+</sup> uptake, Ca <sup>2+</sup> efflux and phosphoenzyme level in sarcoplasmic-reticulum vesicles. <i>Biochemical Journal</i> , <b>1991</b> , 274 ( Pt 2), 427-32	3.8	12
63	Calcium-pumping ATPases in vesicles from carrot cells : stimulation by calmodulin or phosphatidylserine, and formation of a 120 kilodalton phosphoenzyme. <i>Plant Physiology</i> , <b>1991</b> , 97, 1535-44	6.6	67
62	The Maxwell demon in biological systems. Use of glucose 6-phosphate and hexokinase as an ATP regenerating system by the Ca(2+)-ATPase of sarcoplasmic reticulum and submitochondrial particles. <i>Annals of the New York Academy of Sciences</i> , <b>1992</b> , 671, 19-30; discussion 30-1	6.5	5
61	Functional evidence of a transmembrane channel within the Ca <sup>2+</sup> transport ATPase of sarcoplasmic reticulum. <i>FEBS Letters</i> , <b>1992</b> , 299, 33-5	3.8	50
60	Reversal of oxidative phosphorylation in submitochondrial particles using glucose 6-phosphate and hexokinase as an ATP regenerating system. <i>FEBS Letters</i> , <b>1992</b> , 308, 197-201	3.8	4
59	Effect of dimethyl sulfoxide on phosphoryl transfer catalyzed by yeast hexokinase. <i>BBA - Proteins and Proteomics</i> , <b>1992</b> , 1120, 305-7		3
58	Species-dependent effects of increasing hypoxia on functions and energy balance in isolated atria. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , <b>1993</b> , 105, 21-7		7
57	The Ca(2+)-transporting ATPases of rabbit and trout exhibit different pH- and temperature-dependences. <i>Biochemical Journal</i> , <b>1993</b> , 293 ( Pt 2), 469-73	3.8	13
56	Reversal of the Ca <sup>2+</sup> pump of blood platelets. <i>Biochemical Journal</i> , <b>1995</b> , 306 ( Pt 1), 35-8	3.8	17
55	Different properties of the mitochondrial and cytosolic hexokinases in maize roots. <i>Biochemical Journal</i> , <b>1995</b> , 309 ( Pt 1), 105-12	3.8	46
54	Ethanol has different effects on Ca(2+)-transport ATPases of muscle, brain and blood platelets. <i>Biochemical Journal</i> , <b>1995</b> , 312 ( Pt 3), 733-7	3.8	20
53	The Ca(2+)-ATPase isoforms of platelets are located in distinct functional Ca <sup>2+</sup> pools and are uncoupled by a mechanism different from that of skeletal muscle Ca(2+)-ATPase. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 21050-5	5.4	34

52	Self-association accompanies inhibition of Ca-ATPase by thapsigargin. <i>Biophysical Journal</i> , <b>1995</b> , 68, 208-15	2.0	
51	Manganese as a cosubstrate for the phosphorylation of the sarcoplasmic reticulum Ca-dependent adenosine triphosphatase with orthophosphate. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1996</b> , 1276, 188-94	4.6	6
50	Regulation of plasma membrane H <sup>+</sup> -ATPase from corn-root by Mg <sup>2+</sup> and pH. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1996</b> , 1279, 214-8	3.8	5
49	Modulation of maize roots H <sup>(+)</sup> -ATPase by sulfated polysaccharides. <i>Bioscience Reports</i> , <b>1996</b> , 16, 439-51	4.1	5
48	Sarco/endoplasmic reticulum Ca <sup>2+</sup> -ATPase isoforms: diverse responses to acidosis. <i>Biochemical Journal</i> , <b>1997</b> , 321 ( Pt 2), 545-50	3.8	49
47	Uncoupling of Ca <sup>2+</sup> transport ATPase in muscle and blood platelets by diacylglycerol analogues and cyclosporin A antagonism. <i>Biochemical Journal</i> , <b>1997</b> , 327 ( Pt 3), 795-801	3.8	12
46	Control of energy fluxes by the sarcoplasmic reticulum Ca <sup>2+</sup> -ATPase: ATP hydrolysis, ATP synthesis and heat production. <i>FEBS Letters</i> , <b>1997</b> , 406, 201-4	3.8	44
45	ECA1 complements yeast mutants defective in Ca <sup>2+</sup> pumps and encodes an endoplasmic reticulum-type Ca <sup>2+</sup> -ATPase in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1997</b> , 94, 8579-84	11.5	135
44	Separation of radiolabeled orthophosphate and adenosine 5-triphosphate by 20% polyacrylamide gel electrophoresis: an assay for brain microsomal Mg <sup>2+</sup> /Ca <sup>2+</sup> ATPase activity. <i>Analytical Biochemistry</i> , <b>1998</b> , 264, 74-81	3.1	3
43	Control of heat produced during ATP hydrolysis by the sarcoplasmic reticulum Ca <sup>(2+)</sup> -ATPase in the absence of a Ca <sup>2+</sup> gradient. <i>Biochemical and Biophysical Research Communications</i> , <b>1998</b> , 243, 598-600	3.4	18
42	Modification of the pH dependence of animal and plant transport ATPases by sulfated polysaccharides. <i>Biochemical and Biophysical Research Communications</i> , <b>1998</b> , 244, 720-3	3.4	6
41	Reversibility of H <sup>+</sup> -ATPase and H <sup>+</sup> -pyrophosphatase in tonoplast vesicles from maize coleoptiles and seeds. <i>Plant Physiology</i> , <b>1998</b> , 116, 1487-95	6.6	84
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39	Ca <sup>(2+)</sup> release and heat production by the endoplasmic reticulum Ca <sup>(2+)</sup> -ATPase of blood platelets. Effect of the platelet activating factor. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 28344-50	5.4	27
38	Glucose 6-phosphate and fructose 1,6-bisphosphate can be used as ATP-regenerating systems by cerebellum Ca <sup>2+</sup> -transport ATPase. <i>Journal of Neurochemistry</i> , <b>1999</b> , 72, 81-6	6	14
37	Calcium efflux from platelet vesicles of the dense tubular system. Analysis of the possible contribution of the Ca <sup>2+</sup> pump. <i>Molecular and Cellular Biochemistry</i> , <b>1999</b> , 199, 7-14	4.2	5
36	Modulation of the low affinity Ca <sup>2+</sup> -binding sites of skeletal muscle and blood platelets Ca <sup>2+</sup> -ATPase by nordihydroguaiaretic acid. <i>Molecular and Cellular Biochemistry</i> , <b>1999</b> , 195, 227-33	4.2	6
35	Molecular characterisation of a NADH ubiquinone oxidoreductase subunit 5 from <i>Schistosoma mansoni</i> and inhibition of mitochondrial respiratory chain function by testosterone. <i>Molecular and Cellular Biochemistry</i> , <b>1999</b> , 202, 149-58	4.2	15

34	Hexokinase activity alters sugar-nucleotide formation in maize root homogenates. <i>Phytochemistry</i> , <b>2000</b> , 53, 29-37	4	25
33	Energy interconversion by the sarcoplasmic reticulum Ca <sup>2+</sup> -ATPase: ATP hydrolysis, Ca <sup>2+</sup> transport, ATP synthesis and heat production. <i>Anais Da Academia Brasileira De Ciencias</i> , <b>2000</b> , 72, 365-79	1.4	9
32	ATP synthesis and heat production during Ca(2+) efflux by sarcoplasmic reticulum Ca(2+)-ATPase. <i>Biochemical and Biophysical Research Communications</i> , <b>2000</b> , 276, 35-9	3.4	13
31	Effects of ADP on sarcoplasmic reticulum function in mechanically skinned skeletal muscle fibres of the rat. <i>Journal of Physiology</i> , <b>2001</b> , 532, 499-508	3.9	56
30	Correlation between uncoupled ATP hydrolysis and heat production by the sarcoplasmic reticulum Ca <sup>2+</sup> -ATPase: coupling effect of fluoride. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 42793-800	5.4	23
29	TcSCA complements yeast mutants defective in Ca <sup>2+</sup> pumps and encodes a Ca <sup>2+</sup> -ATPase that localizes to the endoplasmic reticulum of <i>Trypanosoma cruzi</i> . <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 32437-45	5.4	34
28	Uncoupled ATPase activity and heat production by the sarcoplasmic reticulum Ca <sup>2+</sup> -ATPase. Regulation by ADP. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 25078-87	5.4	84
27	Inhibition of phosphate uptake in corn roots by aluminum-fluoride complexes. <i>Plant Physiology</i> , <b>2002</b> , 129, 1763-72	6.6	30
26	Uncoupled ATP hydrolysis and thermogenic activity of the sarcoplasmic reticulum Ca <sup>2+</sup> -ATPase: coupling effects of dimethyl sulfoxide and low temperature. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 16868-72	5.4	22
25	Inhibition of sarcoplasmic reticulum Ca <sup>2+</sup> -ATPase by miconazole. <i>American Journal of Physiology - Cell Physiology</i> , <b>2002</b> , 283, C85-92	5.4	10
24	Brown adipose tissue Ca <sup>2+</sup> -ATPase: uncoupled ATP hydrolysis and thermogenic activity. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 41856-61	5.4	37
23	Hyperthyroidism increases the uncoupled ATPase activity and heat production by the sarcoplasmic reticulum Ca <sup>2+</sup> -ATPase. <i>Biochemical Journal</i> , <b>2003</b> , 375, 753-60	3.8	35
22	The Sarcoplasmic Reticulum Ca <sup>2+</sup> -ATPase and the Processes of Energy Transduction in Biological Systems. <i>Comprehensive Chemical Kinetics</i> , <b>2003</b> , 42, 591-642	0.7	
21	Effects of ADP on action potential-induced force responses in mechanically skinned rat fast-twitch fibres. <i>Journal of Physiology</i> , <b>2004</b> , 559, 433-47	3.9	10
20	Status epilepticus induced by pilocarpine and Ca <sup>2+</sup> transport by microsome in the hippocampus of rats. <i>Neuroscience Letters</i> , <b>2004</b> , 366, 292-6	3.3	2
19	Functional effect of hydrogen peroxide on the sarcoplasmic reticulum membrane: uncoupling and irreversible inhibition of the Ca <sup>2+</sup> -ATPase protein. <i>Archives of Biochemistry and Biophysics</i> , <b>2004</b> , 431, 245-51	4.1	4
18	The thermogenic activity of rat brown adipose tissue and rabbit white muscle Ca <sup>2+</sup> -ATPase. <i>IUBMB Life</i> , <b>2005</b> , 57, 337-45	4.7	20
17	Confocal imaging of [Ca <sup>2+</sup> ] in cellular organelles by SEER, shifted excitation and emission ratioing of fluorescence. <i>Journal of Physiology</i> , <b>2005</b> , 567, 523-43	3.9	57

16	ATP synthesis catalyzed by a V-ATPase: an alternative pathway for energy conservation operating in plant vacuoles?. <i>Physiology and Molecular Biology of Plants</i> , <b>2008</b> , 14, 195-203	2.8	1
15	Heat production by skeletal muscles of rats and rabbits and utilization of glucose 6-phosphate as ATP regenerative system by rats and rabbits heart Ca <sup>2+</sup> -ATPase. <i>Biochemical and Biophysical Research Communications</i> , <b>2008</b> , 369, 265-9	3.4	4
14	Thermogenic activity of the Ca <sup>2+</sup> -ATPase from blue marlin heater organ: regulation by KCl and temperature. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2009</b> , 297, R1460-8	3.2	10
13	Fusion of the endoplasmic reticulum and mitochondrial outer membrane in rats brown adipose tissue: activation of thermogenesis by Ca <sup>2+</sup> . <i>PLoS ONE</i> , <b>2010</b> , 5, e9439	3.7	24
12	Brown adipose tissue mitochondria: modulation by GDP and fatty acids depends on the respiratory substrates. <i>Bioscience Reports</i> , <b>2012</b> , 32, 53-9	4.1	11
11	1,2-Dichlorobenzene affects the formation of the phosphoenzyme stage during the catalytic cycle of the Ca(2+)-ATPase from sarcoplasmic reticulum. <i>BMC Biochemistry</i> , <b>2016</b> , 17, 5	4.8	3
10	Functional interactions of catalytic site and transmembrane channel in the sarcoplasmic reticulum ATPase.. <i>Journal of Biological Chemistry</i> , <b>1990</b> , 265, 18848-18851	5.4	23
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7	Local anesthetics induce fast Ca <sup>2+</sup> efflux through a nonenergized state of the sarcoplasmic reticulum Ca(2+)-ATPase.. <i>Journal of Biological Chemistry</i> , <b>1992</b> , 267, 5785-5789	5.4	16
6	Glucose 6-phosphate and hexokinase can be used as an ATP-regenerating system by the Ca(2+)-ATPase of sarcoplasmic reticulum.. <i>Journal of Biological Chemistry</i> , <b>1992</b> , 267, 1829-1833	5.4	13
5	Ca <sup>2+</sup> translocation and catalytic activity of the sarcoplasmic reticulum ATPase. Modulation by ATP, Ca <sup>2+</sup> , and Pi.. <i>Journal of Biological Chemistry</i> , <b>1991</b> , 266, 17978-17982	5.4	18
4	Activation of Ca <sup>2+</sup> uptake and inhibition of reversal of the sarcoplasmic reticulum Ca <sup>2+</sup> pump by aromatic compounds. <i>Journal of Biological Chemistry</i> , <b>1989</b> , 264, 20339-20343	5.4	12
3	Fast efflux of Ca <sup>2+</sup> mediated by the sarcoplasmic reticulum Ca(2+)-ATPase.. <i>Journal of Biological Chemistry</i> , <b>1991</b> , 266, 5736-5742	5.4	58
2	Phosphorylation and reaction intermediates of the prokaryotic Ca(2+)-ATPase.. <i>Journal of Biological Chemistry</i> , <b>1993</b> , 268, 20590-20597	5.4	2
1	Catalytic activity and heat production by the Ca(2+)-ATPase from sea cucumber ( <i>Ludwigothurea grisea</i> ) longitudinal smooth muscle: modulation by monovalent cations. <i>Journal of Experimental Biology</i> , <b>2000</b> , 203, 3613-3619	3	6