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Effects of magnesium and nucleotides on the proton conductance of rat skeletal-muscle mitochondria

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#	Paper	IF	Citations
48	AMP decreases the efficiency of skeletal-muscle mitochondria. <i>Biochemical Journal</i> , <b>2000</b> , 351, 307	3.8	14
47	AMP decreases the efficiency of skeletal-muscle mitochondria. <i>Biochemical Journal</i> , <b>2000</b> , 351, 307-311	3.8	41
46	Nucleotide effects on liver and muscle mitochondrial non-phosphorylating respiration and membrane potential. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2001</b> , 1503, 314-28	4.6	2
45	Mitochondrial proton leak and the uncoupling protein 1 homologues. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2001</b> , 1504, 144-58	4.6	127
44	Reduced mitochondrial adenosine triphosphate synthesis in skeletal muscle in patients with Child-Pugh class B and C cirrhosis. <i>Hepatology</i> , <b>2001</b> , 34, 7-12	11.2	36
43	Physiological levels of mammalian uncoupling protein 2 do not uncouple yeast mitochondria. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 18633-9	5.4	73
42	The basal proton conductance of skeletal muscle mitochondria from transgenic mice overexpressing or lacking uncoupling protein-3. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 2773-8	5.4	163
41	Artifactual uncoupling by uncoupling protein 3 in yeast mitochondria at the concentrations found in mouse and rat skeletal-muscle mitochondria. <i>Biochemical Journal</i> , <b>2002</b> , 361, 49-56	3.8	61
40	Artifactual uncoupling by uncoupling protein 3 in yeast mitochondria at the concentrations found in mouse and rat skeletal-muscle mitochondria. <i>Biochemical Journal</i> , <b>2002</b> , 361, 49-56	3.8	103
39	Fasting, lipid metabolism, and triiodothyronine in rat gastrocnemius muscle: interrelated roles of uncoupling protein 3, mitochondrial thioesterase, and coenzyme Q. <i>FASEB Journal</i> , <b>2003</b> , 17, 1112-4	0.9	32
38	Tissue-specific depression of mitochondrial proton leak and substrate oxidation in hibernating arctic ground squirrels. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2003</b> , 284, R1306-13	3.2	54
37	Voltage-gated proton channels and other proton transfer pathways. <i>Physiological Reviews</i> , <b>2003</b> , 83, 475-579	47.9	544
36	Uncoupled and surviving: individual mice with high metabolism have greater mitochondrial uncoupling and live longer. <i>Aging Cell</i> , <b>2004</b> , 3, 87-95	9.9	443
35	Regulation by magnesium of potato tuber mitochondrial respiratory activities. <i>Journal of Bioenergetics and Biomembranes</i> , <b>2004</b> , 36, 525-31	3.7	3
34	Opposing effect of angiotensin-1 on VEGF-mediated disruption of endothelial cell-cell interactions requires activation of PKC beta. <i>Journal of Cellular Physiology</i> , <b>2004</b> , 198, 53-61	7	47
33	Production of endogenous matrix superoxide from mitochondrial complex I leads to activation of uncoupling protein 3. <i>FEBS Letters</i> , <b>2004</b> , 556, 111-5	3.8	106
32	K <sup>+</sup> -dependent regulation of matrix volume improves mitochondrial function under conditions mimicking ischemia-reperfusion. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2005</b> , 289, H66-77	5.2	27

31	The basal proton conductance of mitochondria depends on adenine nucleotide translocase content. <i>Biochemical Journal</i> , <b>2005</b> , 392, 353-62	3.8	275
30	Uncoupling protein 3 protects aconitase against inactivation in isolated skeletal muscle mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2005</b> , 1709, 150-6	4.6	48
29	Regulation of UCP1 and UCP3 in arctic ground squirrels and relation with mitochondrial proton leak. <i>Journal of Applied Physiology</i> , <b>2006</b> , 101, 339-47	3.7	38
28	Mitochondrial UCP4 mediates an adaptive shift in energy metabolism and increases the resistance of neurons to metabolic and oxidative stress. <i>NeuroMolecular Medicine</i> , <b>2006</b> , 8, 389-414	4.6	141
27	UCP1 and defense against oxidative stress. 4-Hydroxy-2-nonenal effects on brown fat mitochondria are uncoupling protein 1-independent. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 13882-93	5.4	72
26	Ca <sup>2+</sup> -dependent interaction of S100A1 with F1-ATPase leads to an increased ATP content in cardiomyocytes. <i>Molecular and Cellular Biology</i> , <b>2007</b> , 27, 4365-73	4.8	78
25	Sympatric <i>Drosophila simulans</i> flies with distinct mtDNA show difference in mitochondrial respiration and electron transport. <i>Insect Biochemistry and Molecular Biology</i> , <b>2007</b> , 37, 213-22	4.5	32
24	Mitochondrial uncouplers with an extraordinary dynamic range. <i>Biochemical Journal</i> , <b>2007</b> , 407, 129-40	3.8	102
23	Interactions of rotor subunits in the chloroplast ATP synthase modulated by nucleotides and by Mg <sup>2+</sup> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2007</b> , 1774, 566-74	4	10
22	Sex differences in survival and mitochondrial bioenergetics during aging in <i>Drosophila</i> . <i>Aging Cell</i> , <b>2007</b> , 6, 699-708	9.9	39
21	Preface: cardiac control pathways: signaling and transport phenomena. <i>Annals of the New York Academy of Sciences</i> , <b>2008</b> , 1123, xx-xli	6.5	2
20	The effects of fasting and cold exposure on metabolic rate and mitochondrial proton leak in liver and skeletal muscle of an amphibian, the cane toad <i>Bufo marinus</i> . <i>Journal of Experimental Biology</i> , <b>2008</b> , 211, 1911-8	3	49
19	From protons to OXPHOS supercomplexes and Alzheimer's disease: structure-dynamics-function relationships of energy-transducing membranes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2009</b> , 1787, 657-71	4.6	43
18	Technical note: assessing the functional capacity of mitochondria isolated from lactating mammary tissue: choose your chelating agent wisely. <i>Journal of Dairy Science</i> , <b>2009</b> , 92, 2038-45	4	3
17	UCP1 ectopically expressed in murine muscle displays native function and mitigates mitochondrial superoxide production. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2010</b> , 1797, 324-30	4.6	30
16	Absence of uncoupling protein-3 leads to greater activation of an adenine nucleotide translocase-mediated proton conductance in skeletal muscle mitochondria from calorie restricted mice. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2010</b> , 1797, 1389-97	4.6	18
15	Cold tolerance of UCP1-ablated mice: a skeletal muscle mitochondria switch toward lipid oxidation with marked UCP3 up-regulation not associated with increased basal, fatty acid- or ROS-induced uncoupling or enhanced GDP effects. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2010</b> , 1797, 968-80	4.6	73
14	GDP and carboxyatractylate inhibit 4-hydroxynonenal-activated proton conductance to differing degrees in mitochondria from skeletal muscle and heart. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2010</b> , 1797, 1716-26	4.6	31

13	Application of modular kinetic analysis to mitochondrial oxidative phosphorylation in skeletal muscle of birds exposed to acute heat stress. <i>FEBS Letters</i> , <b>2010</b> , 584, 3143-8	3.8	20
12	Functional evidence for nitric oxide production by skeletal-muscle mitochondria from lipopolysaccharide-treated mice. <i>Mitochondrion</i> , <b>2012</b> , 12, 126-31	4.9	14
11	Protective effects of magnesium supplementation on metabolic energy derangements in lipopolysaccharide-induced cardiotoxicity in mice. <i>European Journal of Pharmacology</i> , <b>2012</b> , 694, 75-81	5.3	7
10	Metabolic downregulation and inhibition of carbohydrate catabolism during diapause in embryos of <i>Artemia franciscana</i> . <i>Physiological and Biochemical Zoology</i> , <b>2013</b> , 86, 106-18	2	21
9	Brown fat in a protoendothermic mammal fuels eutherian evolution. <i>Nature Communications</i> , <b>2013</b> , 4, 2140	17.4	63
8	Different effects of guanine nucleotides (GDP and GTP) on protein-mediated mitochondrial proton leak. <i>PLoS ONE</i> , <b>2014</b> , 9, e98969	3.7	18
7	Fatty acids in energy metabolism of the central nervous system. <i>BioMed Research International</i> , <b>2014</b> , 2014, 472459	3	95
6	Physiological strategies during animal diapause: lessons from brine shrimp and annual killifish. <i>Journal of Experimental Biology</i> , <b>2015</b> , 218, 1897-906	3	46
5	Temperature controls oxidative phosphorylation and reactive oxygen species production through uncoupling in rat skeletal muscle mitochondria. <i>Free Radical Biology and Medicine</i> , <b>2015</b> , 83, 12-20	7.8	47
4	Mitochondrial Proton Leak Compensates for Reduced Oxidative Power during Frequent Hypothermic Events in a Protoendothermic Mammal. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 909	4.6	5
3	Magnesium-sensitive upstream ORF controls PRL phosphatase expression to mediate energy metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 2925-2934	11.5	24
2	PRL2 links magnesium flux and sex-dependent circadian metabolic rhythms. <i>JCI Insight</i> , <b>2017</b> , 2,	9.9	14
1	Effects of Aerobic Exercise on PGC-1 $\beta$ /AMPK and SOD Expression of Skeletal Muscle in 2Type Diabetic Rats. <b>2015</b> , 24, 297-303		1