Martin D Brand

List of Publications by Year
in descending order

295 papers	34,003 citations	3731 89 h-index	4015 176 g-index
310 all docs	310 docs citations	310 times ranked	27733 citing authors

#	Article	IF	Citations
1	Effects of sugars, fatty acids and amino acids on cytosolic and mitochondrial hydrogen peroxide release from liver cells. Free Radical Biology and Medicine, 2022, 188, 92-102.	2.9	10
2	Cardiolipin deficiency in Barth syndrome is not associated with increasedÂsuperoxide/H 2 O 2 production in heart and skeletal muscle mitochondria. FEBS Letters, 2021, 595, 415-432.	2.8	14
3	Superoxide produced by mitochondrial site IQ inactivates cardiac succinate dehydrogenase and induces hepatic steatosis in Sod2 knockout mice. Free Radical Biology and Medicine, 2021, 164, 223-232.	2.9	14
4	S3QELs protect against dietâ€induced intestinal barrier dysfunction. Aging Cell, 2021, 20, e13476.	6.7	9
5	Controlled power: how biology manages succinate-driven energy release. Biochemical Society Transactions, 2021, 49, 2929-2939.	3.4	10
6	The use of site-specific suppressors to measure the relative contributions of different mitochondrial sites to skeletal muscle superoxide and hydrogen peroxide production. Redox Biology, 2020, 28, 101341.	9.0	44
7	Production of superoxide and hydrogen peroxide in the mitochondrial matrix is dominated by site IQ of complex I in diverse cell lines. Redox Biology, 2020, 37, 101722.	9.0	26
8	Riding the tiger â€“ physiological and pathological effects of superoxide and hydrogen peroxide generated in the mitochondrial matrix. Critical Reviews in Biochemistry and Molecular Biology, 2020, 55, 592-661.	5.2	56
9	S1QELs suppress mitochondrial superoxide/hydrogen peroxide production from site IQ without inhibiting reverse electron flow through Complex I. Free Radical Biology and Medicine, 2019, 143, 545-559.	2.9	30
10	The Whys and Hows of Calculating Total Cellular ATP Production Rate. Trends in Endocrinology and Metabolism, 2019, 30, 412-416.	7.1	6
11	Mitochondrial and cytosolic sources of hydrogen peroxide in resting C2C12 myoblasts. Free Radical Biology and Medicine, 2019, 130, 140-150.	2.9	75
12	Use of S1QELs and S3QELs to link mitochondrial sites of superoxide and hydrogen peroxide generation to physiological and pathological outcomes. Biochemical Society Transactions, 2019, 47, 1461-1469.	3.4	21
13	Osteoblast-like MC3T3-E1 Cells Prefer Glycolysis for ATP Production but Adipocyte-like 3T3-L1 Cells Prefer Oxidative Phosphorylation. Journal of Bone and Mineral Research, 2018, 33, 1052-1065.	2.8	71
14	Generation of superoxide and hydrogen peroxide by side reactions of mitochondrial 2-oxoacid dehydrogenase complexes in isolation and in cells. Biological Chemistry, 2018, 399, 407-420.	2.5	21
15	Measurement of Proton Leak in Isolated Mitochondria. Methods in Molecular Biology, 2018, 1782, 157-170.	0.9	8
16	Plate-Based Measurement of Superoxide and Hydrogen Peroxide Production by Isolated Mitochondria. Methods in Molecular Biology, 2018, 1782, 287-299.	0.9	4
17	Plate-Based Measurement of Respiration by Isolated Mitochondria. Methods in Molecular Biology, 2018, 1782, 301-313.	0.9	5
18	Quantifying intracellular rates of glycolytic and oxidative ATP production and consumption using extracellular flux measurements. Journal of Biological Chemistry, 2017, 292, 7189-7207.	3.4	343

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19	Production of superoxide and hydrogen peroxide from specific mitochondrial sites under different bioenergetic conditions. Journal of Biological Chemistry, 2017, 292, 16804-16809.	3.4	336
20	Positive Feedback Amplifies the Response of Mitochondrial Membrane Potential to Glucose Concentration in Clonal Pancreatic Beta Cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 1054-1065.	3.8	15
21	Tunicamycin Exposure Triggers Apoptosis by Superoxide Formation from Site III Qo of Mitochondrial Complex III. Free Radical Biology and Medicine, 2017, 112, 172.	2.9	1
22	Comparison of Mitochondrial Reactive Oxygen Species Production of Ectothermic and Endothermic Fish Muscle. Frontiers in Physiology, 2017, 8, 704.	2.8	21
23	Mitochondrial generation of superoxide and hydrogen peroxide as the source of mitochondrial redox signaling. Free Radical Biology and Medicine, 2016, 100, 14-31.	2.9	753
24	Stable nuclear expression of<i>ATP8</i>and<i>ATP6</i>genes rescues a mtDNA Complex V<i>null</i>mutant. Nucleic Acids Research, 2016, 44, gkw756.	14.5	35
25	Suppressors of Superoxide-H 2 O 2 Production at Site I Q of Mitochondrial Complex I Protect against Stem Cell Hyperplasia and Ischemia-Reperfusion Injury. Cell Metabolism, 2016, 24, 582-592.	16.2	162
26	Exploiting Mitochondria InÂVivo as Chemical Reaction Chambers Dependent on Membrane Potential. Molecular Cell, 2016, 61, 642-643.	9.7	9
27	Production of superoxide/hydrogen peroxide by the mitochondrial 2-oxoadipate dehydrogenase complex. Free Radical Biology and Medicine, 2016, 91, 247-255.	2.9	56
28	Determining Maximum Glycolytic Capacity Using Extracellular Flux Measurements. PLoS ONE, 2016, 11, e0152016.	2.5	121
29	Measurement of the Absolute Magnitude and Time Courses of Mitochondrial Membrane Potential in Primary and Clonal Pancreatic Beta-Cells. PLoS ONE, 2016, 11, e0159199.	2.5	24
30	Measurement and Analysis of Extracellular Acid Production to Determine Glycolytic Rate. Journal of Visualized Experiments, 2015, , e53464.	0.3	66
31	Dependence of Brown Adipose Tissue Function on CD36-Mediated Coenzyme Q Uptake. Cell Reports, 2015, 10, 505-515.	6.4	67
32	The Role of Mitochondrially Derived ATP in Synaptic Vesicle Recycling. Journal of Biological Chemistry, 2015, 290, 22325-22336.	3.4	219
33	Suppressors of superoxide production from mitochondrial complex III. Nature Chemical Biology, 2015, 11, 834-836.	8.0	157
34	Sites of Superoxide and Hydrogen Peroxide Production by Muscle Mitochondria Assessed ex Vivo under Conditions Mimicking Rest and Exercise. Journal of Biological Chemistry, 2015, 290, 209-227.	3.4	261
35	The contributions of respiration and glycolysis to extracellular acid production. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 171-181.	1.0	264
36	Mitochondrial bioenergetics and neuronal survival modelled in primary neuronal culture and isolated nerve terminals. Journal of Bioenergetics and Biomembranes, 2015, 47, 63-74.	2.3	31

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37	Specific inhibition by synthetic analogs of pyruvate reveals that the pyruvate dehydrogenase reaction is essential for metabolism and viability of glioblastoma cells. Oncotarget, 2015, 6, 40036-40052.	1.8	22
38	Novel Inhibitors of Mitochondrial sn-Glycerol 3-phosphate Dehydrogenase. PLoS ONE, 2014, 9, e89938.	2.5	46
39	Sources of superoxide/H2O2 during mitochondrial proline oxidation. Redox Biology, 2014, 2, 901-909.	9.0	62
40	The 2-Oxoacid Dehydrogenase Complexes in Mitochondria Can Produce Superoxide/Hydrogen Peroxide at Much Higher Rates Than Complex I. Journal of Biological Chemistry, 2014, 289, 8312-8325.	3.4	257
41	Production of superoxide/H2O2 by dihydroorotate dehydrogenase in rat skeletal muscle mitochondria. Free Radical Biology and Medicine, 2014, 72, 149-155.	2.9	64
42	Sites of superoxide and hydrogen peroxide production during fatty acid oxidation in rat skeletal muscle mitochondria. Free Radical Biology and Medicine, 2013, 61, 298-309.	2.9	103
43	The Determination and Analysis of Site-Specific Rates of Mitochondrial Reactive Oxygen Species Production. Methods in Enzymology, 2013, 526, 189-217.	1.0	76
44	Inhibitors of ROS production by the ubiquinone-binding site of mitochondrial complex I identified by chemical screening. Free Radical Biology and Medicine, 2013, 65, 1047-1059.	2.9	65
45	The role of mitochondrial function and cellular bioenergetics in ageing and disease. British Journal of Dermatology, 2013, 169, 1-8.	1.5	154
46	Sites of reactive oxygen species generation by mitochondria oxidizing different substrates. Redox Biology, 2013, 1, 304-312.	9.0	476
47	A Prototypical Smallâ€Molecule Modulator Uncouples Mitochondria in Response to Endogenous Hydrogen Peroxide Production. ChemBioChem, 2013, 14, 993-1000.	2.6	23
48	Measuring Mitochondrial Uncoupling Protein-2 Level and Activity in Insulinoma Cells. Methods in Enzymology, 2013, 528, 257-267.	1.0	3
49	Metabolic Downregulation and Inhibition of Carbohydrate Catabolism during Diapause in Embryos of<i>Artemia franciscana</i>. Physiological and Biochemical Zoology, 2013, 86, 106-118.	1.5	29
50	A Refined Analysis of Superoxide Production by Mitochondrial sn-Glycerol 3-Phosphate Dehydrogenase. Journal of Biological Chemistry, 2012, 287, 42921-42935.	3.4	144
51	Fatty Acids Change the Conformation of Uncoupling Protein 1 (UCP1). Journal of Biological Chemistry, 2012, 287, 36845-36853.	3.4	47
52	Mitochondrial Complex II Can Generate Reactive Oxygen Species at High Rates in Both the Forward and Reverse Reactions. Journal of Biological Chemistry, 2012, 287, 27255-27264.	3.4	540
53	Plasma Membrane Potential Oscillations in Insulin Secreting Ins-1 832/13 Cells Do Not Require Glycolysis and Are Not Initiated by Fluctuations in Mitochondrial Bioenergetics. Journal of Biological Chemistry, 2012, 287, 15706-15717.	3.4	35
54	Native rates of superoxide production from multiple sites in isolated mitochondria measured using endogenous reporters. Free Radical Biology and Medicine, 2012, 53, 1807-1817.	2.9	133

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55	No Consistent Bioenergetic Defects in Presynaptic Nerve Terminals Isolated from Mouse Models of Alzheimer's Disease. Journal of Neuroscience, 2012, 32, 16775-16784.	3.6	27
56	Native Rates of Mitochondrial Superoxide Production: A Novel Method Utilizing Endogenous Reporters. Free Radical Biology and Medicine, 2012, 53, S27.	2.9	0
57	Quantitative measurement of mitochondrial membrane potential in cultured cells: calciumâ€induced deâ€ and hyperpolarization of neuronal mitochondria. Journal of Physiology, 2012, 590, 2845-2871.	2.9	172
58	Measurement of Proton Leak and Electron Leak in Isolated Mitochondria. Methods in Molecular Biology, 2012, 810, 165-182.	0.9	72
59	Compromised Mitochondrial Fatty Acid Synthesis in Transgenic Mice Results in Defective Protein Lipoylation and Energy Disequilibrium. PLoS ONE, 2012, 7, e47196.	2.5	44
60	Time Lapse Measurement of Mitochondrial Membrane Potential in Absolute Millivolts in Single Intact Cells. FASEB Journal, 2012, 26, 887.11.	0.5	0
61	Assessing mitochondrial dysfunction in cells. Biochemical Journal, 2011, 435, 297-312.	3.7	1,949
62	Mechanisms of Mitochondrial Free Radical Production and their Relationship to the Aging Process. , 2011, , 47-61.		10
63	A reduction in ATP demand and mitochondrial activity with neural differentiation of human embryonic stem cells. Journal of Cell Science, 2011, 124, 348-358.	2.0	151
64	High Throughput Microplate Respiratory Measurements Using Minimal Quantities Of Isolated Mitochondria. PLoS ONE, 2011, 6, e21746.	2.5	398
65	Walking the Oxidative Stress Tightrope: A Perspective from the Naked Mole-Rat, the Longest-Living Rodent. Current Pharmaceutical Design, 2011, 17, 2290-2307.	1.9	44
66	Uncoupling protein-2 attenuates glucose-stimulated insulin secretion in INS-1E insulinoma cells by lowering mitochondrial reactive oxygen species. Free Radical Biology and Medicine, 2011, 50, 609-616.	2.9	76
67	A Refined Analysis of ROS Production from Mitochondrial sn-Glycerol-3-Phosphate Dehydrogenase (mGPDH). Free Radical Biology and Medicine, 2011, 51, S137-S138.	2.9	0
68	Sites of Mitochondrial ROS Production during Long-Chain Fatty Acid Oxidation. Free Radical Biology and Medicine, 2011, 51, S138.	2.9	0
69	Characteristics of the turnover of uncoupling protein 3 by the ubiquitin proteasome system in isolated mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1474-1481.	1.0	14
70	The Mechanism of Superoxide Production by the Antimycin-inhibited Mitochondrial Q-cycle. Journal of Biological Chemistry, 2011, 286, 31361-31372.	3.4	158
71	The Regulation and Physiology of Mitochondrial Proton Leak. Physiology, 2011, 26, 192-205.	3.1	335
72	A Model of the Proton Translocation Mechanism of Complex I. Journal of Biological Chemistry, 2011, 286, 17579-17584.	3.4	37

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73	Intrinsic Bioenergetic Properties and Stress Sensitivity of Dopaminergic Synaptosomes. Journal of Neuroscience, 2011, 31, 4524-4534.	3.6	46
74	Evidence for Two Sites of Superoxide Production by Mitochondrial NADH-Ubiquinone Oxidoreductase (Complex I). Journal of Biological Chemistry, 2011, 286, 27103-27110.	3.4	168
75	Abstract 3797: Wildtype p53 upregulation induces contrasting bioenergetic and metabolic responses in malignant and non-malignant mammary epithelial cells. , 2011, , .		0
76	Rapid turnover of mitochondrial uncoupling protein 3. Biochemical Journal, 2010, 426, 13-17.	3.7	53
77	Caged mitochondrial uncouplers that are released in response to hydrogen peroxide. Tetrahedron, 2010, 66, 2384-2389.	1.9	17
78	Mitochondrial uncoupling and lifespan. Mechanisms of Ageing and Development, 2010, 131, 463-472.	4.6	136
79	The on-off switches of the mitochondrial uncoupling proteins. Trends in Biochemical Sciences, 2010, 35, 298-307.	7.5	202
80	The sites and topology of mitochondrial superoxide production. Experimental Gerontology, 2010, 45, 466-472.	2.8	954
81	The regulation and turnover of mitochondrial uncoupling proteins. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 785-791.	1.0	122
82	The regulation and turnover of mitochondrial uncoupling proteins. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 84.	1.0	0
83	Are the novel uncoupling proteins acutely regulated by fatty acids and nucleotides?. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 86.	1.0	0
84	Uncoupling protein-3 lowers reactive oxygen species production in isolated mitochondria. Free Radical Biology and Medicine, 2010, 49, 606-611.	2.9	105
85	Low complex I content explains the low hydrogen peroxide production rate of heart mitochondria from the longâ€lived pigeon,<i>Columba livia</i>. Aging Cell, 2010, 9, 78-91.	6.7	66
86	Biomarkers of aging in <i>Drosophila</i>. Aging Cell, 2010, 9, 466-477.	6.7	76
87	Hydrogen peroxide efflux from muscle mitochondria underestimates matrix superoxide production â€" a correction using glutathione depletion. FEBS Journal, 2010, 277, 2766-2778.	4.7	78
88	Mitochondrial uncoupling protein 2 in pancreatic <i>Î²</i>â€cells. Diabetes, Obesity and Metabolism, 2010, 12, 134-140.	4.4	22
89	Degradation of an intramitochondrial protein by the cytosolic proteasome. Journal of Cell Science, 2010, 123, 3616-3616.	2.0	3
90	Degradation of an intramitochondrial protein by the cytosolic proteasome. Journal of Cell Science, 2010, 123, 578-585.	2.0	111

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91	Not all mitochondrial carrier proteins support permeability transition pore formation: no involvement of uncoupling protein 1. Bioscience Reports, 2010, 30, 187-192.	2.4	11
92	Plasticity of Oxidative Metabolism in Variable Climates: Molecular Mechanisms. Physiological and Biochemical Zoology, 2010, 83, 721-732.	1.5	105
93	Mitochondrial proton and electron leaks. Essays in Biochemistry, 2010, 47, 53-67.	4.7	601
94	Chapter 23 Measuring Mitochondrial Bioenergetics in INS-1E Insulinoma Cells. Methods in Enzymology, 2009, 457, 405-424.	1.0	44
95	Leptin-mediated changes in hepatic mitochondrial metabolism, structure, and protein levels. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13100-13105.	7.1	54
96	Dysregulation of glucose homeostasis in nicotinamide nucleotide transhydrogenase knockout mice is independent of uncoupling protein 2. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 1451-1457.	1.0	17
97	Expression of human uncoupling protein-3 in Drosophila insulin-producing cells increases insulin-like peptide (DILP) levels and shortens lifespan. Experimental Gerontology, 2009, 44, 316-327.	2.8	23
98	Uncoupling protein-1 (UCP1) contributes to the basal proton conductance of brown adipose tissue mitochondria. Journal of Bioenergetics and Biomembranes, 2009, 41, 335-342.	2.3	55
99	Quantitative Microplate-Based Respirometry with Correction for Oxygen Diffusion. Analytical Chemistry, 2009, 81, 6868-6878.	6.5	290
100	Reactive Oxygen Species Production by Mitochondria. Methods in Molecular Biology, 2009, 554, 165-181.	0.9	282
101	UCPs â€” unlikely calcium porters. Nature Cell Biology, 2008, 10, 1235-1237.	10.3	88
102	Dissociation of superoxide production by mitochondrial complex I from NAD(P)H redox state. FEBS Letters, 2008, 582, 1711-1714.	2.8	35
103	Diphenyleneiodonium acutely inhibits reactive oxygen species production by mitochondrial complex I during reverse, but not forward electron transport. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 397-403.	1.0	96
104	On the role of uncoupling protein-2 in pancreatic beta cells. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 973-979.	1.0	62
105	S3.10 A role for uncoupling protein 1 in the formation of the mitochondrial permeability transition pore?. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, S27.	1.0	0
106	S12.9 Dynamic regulation of UCP2 concentration in INS-1E pancreatic beta-cells. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, S77.	1.0	0
107	Dynamic regulation of uncoupling protein 2 content in INS-1E insulinoma cells. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 1378-1383.	1.0	40
108	Experimental assessment of bioenergetic differences caused by the common European mitochondrial DNA haplogroups H and T. Gene, 2008, 411, 69-76.	2.2	64

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109	The Efficiency of Cellular Energy Transduction and Its Implications for Obesity. Annual Review of Nutrition, 2008, 28, 13-33.	10.1	109
110	Stimulation of mitochondrial proton conductance by hydroxynonenal requires a high membrane potential. Bioscience Reports, 2008, 28, 83-88.	2.4	69
111	Energization-dependent endogenous activation of proton conductance in skeletal muscle mitochondria. Biochemical Journal, 2008, 412, 131-139.	3.7	64
112	Uncoupling protein-2 contributes significantly to high mitochondrial proton leak in INS-1E insulinoma cells and attenuates glucose-stimulated insulin secretion. Biochemical Journal, 2008, 409, 199-204.	3.7	80
113	High membrane potential promotes alkenal-induced mitochondrial uncoupling and influences adenine nucleotide translocase conformation. Biochemical Journal, 2008, 413, 323-332.	3.7	49
114	Cold-induced alterations of phospholipid fatty acyl composition in brown adipose tissue mitochondria are independent of uncoupling protein-1. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R1086-R1093.	1.8	27
115	4-Hydroxy-2-nonenal and uncoupling proteins: an approach for regulation of mitochondrial ROS production. Redox Report, 2007, 12, 26-29.	4.5	49
116	Were inefficient mitochondrial haplogroups selected during migrations of modern humans? A test using modular kinetic analysis of coupling in mitochondria from cybrid cell lines. Biochemical Journal, 2007, 404, 345-351.	3.7	61
117	Low rates of hydrogen peroxide production by isolated heart mitochondria associate with long maximum lifespan in vertebrate homeotherms. Aging Cell, 2007, 6, 607-618.	6.7	238
118	Mitochondrial uncouplers with an extraordinary dynamic range. Biochemical Journal, 2007, 407, 129-140.	3.7	120
119	Research on mitochondria and aging, 2006â€“2007. Aging Cell, 2007, 6, 417-420.	6.7	36
120	25.1. Mitochondria and Reactive Oxygen Species. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 148, S112.	1.8	0
121	Functional characterisation of UCP1 in the common carp: uncoupling activity in liver mitochondria and cold-induced expression in the brain. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2007, 177, 743-752.	1.5	73
122	Novel uncoupling proteins. Novartis Foundation Symposium, 2007, 287, 70-80; discussion 80-91.	1.1	19
123	Synergy of fatty acid and reactive alkenal activation of proton conductance through uncoupling protein 1 in mitochondria. Biochemical Journal, 2006, 395, 619-628.	3.7	36
124	Flight Activity, Mortality Rates, and Lipoxidative Damage in Drosophila. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2006, 61, 136-145.	3.6	76
125	The Effect of Dietary Restriction on Mitochondrial Protein Density and Flight Muscle Mitochondrial Morphology in Drosophila. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2006, 61, 36-47.	3.6	35
126	Targeting Dinitrophenol to Mitochondria: Limitations to the Development of a Self-limiting Mitochondrial Protonophore. Bioscience Reports, 2006, 26, 231-243.	2.4	63

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127	Stronger control of ATP/ADP by proton leak in pancreatic Î²-cells than skeletal muscle mitochondria. Biochemical Journal, 2006, 393, 151-159.	3.7	55
128	The efficiency and plasticity of mitochondrial energy transduction. Biochemical Society Transactions, 2005, 33, 897.	3.4	262
129	Hydroxynonenal and uncoupling proteins: A model for protection against oxidative damage. BioFactors, 2005, 24, 119-130.	5.4	59
130	Special issue on dietary restriction: Dietary restriction, longevity and ageingâ€"the current state of our knowledge and ignorance. Mechanisms of Ageing and Development, 2005, 126, 911-912.	4.6	22
131	The basal proton conductance of mitochondria depends on adenine nucleotide translocase content. Biochemical Journal, 2005, 392, 353-362.	3.7	321
132	Transcript and metabolite analysis of the effects of tamoxifen in rat liver reveals inhibition of fatty acid synthesis in the presence of hepatic steatosis. FASEB Journal, 2005, 19, 1108-1119.	0.5	87
133	Physiological functions of the mitochondrial uncoupling proteins UCP2 and UCP3. Cell Metabolism, 2005, 2, 85-93.	16.2	700
134	The reactions catalysed by the mitochondrial uncoupling proteins UCP2 and UCP3. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1709, 35-44.	1.0	125
135	Uncoupling protein 3 protects aconitase against inactivation in isolated skeletal muscle mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1709, 150-156.	1.0	51
136	The topology of superoxide production by complex III and glycerol 3-phosphate dehydrogenase in Drosophila mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1709, 214-219.	1.0	98
137	Analysing microarray data using modular regulation analysis. Bioinformatics, 2004, 20, 1272-1284.	4.1	5
138	Inhibitors of the Quinone-binding Site Allow Rapid Superoxide Production from Mitochondrial NADH:Ubiquinone Oxidoreductase (Complex I). Journal of Biological Chemistry, 2004, 279, 39414-39420.	3.4	415
139	Uncoupled and surviving: individual mice with high metabolism have greater mitochondrial uncoupling and live longer. Aging Cell, 2004, 3, 87-95.	6.7	505
140	Uncoupling protein and ATP/ADP carrier increase mitochondrial proton conductance after cold adaptation of king penguins. Journal of Physiology, 2004, 558, 123-135.	2.9	107
141	Mitochondrial superoxide: production, biological effects, and activation of uncoupling proteins. Free Radical Biology and Medicine, 2004, 37, 755-767.	2.9	900
142	Lack of Correlation between Mitochondrial Reactive Oxygen Species Production and Life Span inDrosophila. Annals of the New York Academy of Sciences, 2004, 1019, 388-391.	3.8	83
143	Prevention of Mitochondrial Oxidative Damage as a Therapeutic Strategy in Diabetes. Diabetes, 2004, 53, S110-S118.	0.6	401
144	Production of endogenous matrix superoxide from mitochondrial complex I leads to activation of uncoupling protein 3. FEBS Letters, 2004, 556, 111-115.	2.8	116

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145	Superoxide production by NADH:ubiquinone oxidoreductase (complex I) depends on the pH gradient across the mitochondrial inner membrane. Biochemical Journal, 2004, 382, 511-517.	3.7	433
146	Ubiquinone is not required for proton conductance by uncoupling protein 1 in yeast mitochondria. Biochemical Journal, 2004, 379, 309-315.	3.7	51
147	Mitochondrial superoxide and aging: uncoupling-protein activity and superoxide production. Biochemical Society Symposia, 2004, 71, 203-213.	2.7	151
148	Molecular properties of purified human uncoupling protein 2 refolded from bacterial inclusion bodies. Journal of Bioenergetics and Biomembranes, 2003, 35, 409-418.	2.3	10
149	Superoxide and hydrogen peroxide production by Drosophila mitochondria. Free Radical Biology and Medicine, 2003, 35, 938-948.	2.9	279
150	Approximate yield of ATP from glucose, designed by donald nicholson: Commentary. Biochemistry and Molecular Biology Education, 2003, 31, 2-4.	1.2	9
151	Nonsteroidal antiinflammatory drugs and a selective cyclooxygenase 2 inhibitor uncouple mitochondria in intact cells. Arthritis and Rheumatism, 2003, 48, 1438-1444.	6.7	69
152	A signalling role for 4-hydroxy-2-nonenal in regulation of mitochondrial uncoupling. EMBO Journal, 2003, 22, 4103-4110.	7.8	519
153	Mitofusin-2 Determines Mitochondrial Network Architecture and Mitochondrial Metabolism. Journal of Biological Chemistry, 2003, 278, 17190-17197.	3.4	740
154	Superoxide activates a GDP-sensitive proton conductance in skeletal muscle mitochondria from king penguin (Aptenodytes patagonicus). Biochemical and Biophysical Research Communications, 2003, 312, 983-988.	2.1	49
155	Superoxide Activates Uncoupling Proteins by Generating Carbon-centered Radicals and Initiating Lipid Peroxidation. Journal of Biological Chemistry, 2003, 278, 48534-48545.	3.4	283
156	Superoxide Stimulates a Proton Leak in Potato Mitochondria That Is Related to the Activity of Uncoupling Protein. Journal of Biological Chemistry, 2003, 278, 22298-22302.	3.4	123
157	Tissue-specific depression of mitochondrial proton leak and substrate oxidation in hibernating arctic ground squirrels. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 284, R1306-R1313.	1.8	68
158	Characterization of the human, mouse and rat PGC1beta (peroxisome-proliferator-activated) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 T	3.7	185
159	Proton conductance and fatty acyl composition of liver mitochondria correlates with body mass in birds. Biochemical Journal, 2003, 376, 741-748.	3.7	134
160	Mitochondrial matrix reactive oxygen species production is very sensitive to mild uncoupling. Biochemical Society Transactions, 2003, 31, 1300-1301.	3.4	255
161	Structure and Function of Mitochondria in Hepatopancreas Cells from Metabolically Depressed Snails. Physiological and Biochemical Zoology, 2002, 75, 134-144.	1.5	14
162	The Basal Proton Conductance of Skeletal Muscle Mitochondria from Transgenic Mice Overexpressing or Lacking Uncoupling Protein-3. Journal of Biological Chemistry, 2002, 277, 2773-2778.	3.4	180

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163	Superoxide Activates Mitochondrial Uncoupling Protein 2 from the Matrix Side. Journal of Biological Chemistry, 2002, 277, 47129-47135.	3.4	355
164	Artifactual uncoupling by uncoupling protein 3 in yeast mitochondria at the concentrations found in mouse and rat skeletal-muscle mitochondria. Biochemical Journal, 2002, 361, 49.	3.7	73
165	Nucleotide binding to human uncoupling protein-2 refolded from bacterial inclusion bodies. Biochemical Journal, 2002, 366, 565-571.	3.7	28
166	Oxidative damage and phospholipid fatty acyl composition in skeletal muscle mitochondria from mice underexpressing or overexpressing uncoupling protein 3. Biochemical Journal, 2002, 368, 597-603.	3.7	168
167	Artifactual uncoupling by uncoupling protein 3 in yeast mitochondria at the concentrations found in mouse and rat skeletal-muscle mitochondria. Biochemical Journal, 2002, 361, 49-56.	3.7	107
168	Simplifying metabolic complexity. Biochemical Society Transactions, 2002, 30, A5-A5.	3.4	1
169	Control analysis of gene expression. Biochemical Society Transactions, 2002, 30, A8-A8.	3.4	0
170	Control analysis of gene expression. Biochemical Society Transactions, 2002, 30, A32-A32.	3.4	0
171	Control Analysis of Metabolic Depression. Cell and Molecular Response To Stress, 2002, , 283-296.	0.4	1
172	Topology of Superoxide Production from Different Sites in the Mitochondrial Electron Transport Chain. Journal of Biological Chemistry, 2002, 277, 44784-44790.	3.4	1,316
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