Martin D Brand

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	Assessing mitochondrial dysfunction in cells. Biochemical Journal, 2011, 435, 297-312.	3.7	1,949
2	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
3	Superoxide activates mitochondrial uncoupling proteins. Nature, 2002, 415, 96-99.	27.8	1,236
4	The sites and topology of mitochondrial superoxide production. Experimental Gerontology, 2010, 45, 466-472.	2.8	954
5	Mitochondrial superoxide: production, biological effects, and activation of uncoupling proteins. Free Radical Biology and Medicine, 2004, 37, 755-767.	2.9	900
6	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
7	Mitofusin-2 Determines Mitochondrial Network Architecture and Mitochondrial Metabolism. Journal of Biological Chemistry, 2003, 278, 17190-17197.	3.4	740
8	Physiological functions of the mitochondrial uncoupling proteins UCP2 and UCP3. Cell Metabolism, 2005, 2, 85-93.	16.2	700
9	Uncoupling to survive? The role of mitochondrial inefficiency in ageing. Experimental Gerontology, 2000, 35, 811-820.	2.8	688
10	Mitochondrial proton and electron leaks. Essays in Biochemistry, 2010, 47, 53-67.	4.7	601
11	Mice overexpressing human uncoupling protein-3 in skeletal muscle are hyperphagic and lean. Nature, 2000, 406, 415-418.	27.8	560
12	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
13	A signalling role for 4-hydroxy-2-nonenal in regulation of mitochondrial uncoupling. EMBO Journal, 2003, 22, 4103-4110.	7.8	519
14	Uncoupled and surviving: individual mice with high metabolism have greater mitochondrial uncoupling and live longer. Aging Cell, 2004, 3, 87-95.	6.7	505
15	Sites of reactive oxygen species generation by mitochondria oxidizing different substrates. Redox Biology, 2013, 1, 304-312.	9.0	476
16	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
17	The causes and functions of mitochondrial proton leak. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1187, 132-139.	1.0	415
18	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

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19	Prevention of Mitochondrial Oxidative Damage as a Therapeutic Strategy in Diabetes. Diabetes, 2004, 53, S110-S118.	0.6	401
20	High Throughput Microplate Respiratory Measurements Using Minimal Quantities Of Isolated Mitochondria. PLoS ONE, 2011, 6, e21746.	2.5	398
21	Superoxide Activates Mitochondrial Uncoupling Protein 2 from the Matrix Side. Journal of Biological Chemistry, 2002, 277, 47129-47135.	3.4	355
22	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
23	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
24	The Regulation and Physiology of Mitochondrial Proton Leak. Physiology, 2011, 26, 192-205.	3.1	335
25	The basal proton conductance of mitochondria depends on adenine nucleotide translocase content. Biochemical Journal, 2005, 392, 353-362.	3.7	321
26	Quantitative Microplate-Based Respirometry with Correction for Oxygen Diffusion. Analytical Chemistry, 2009, 81, 6868-6878.	6.5	290
27	Superoxide Activates Uncoupling Proteins by Generating Carbon-centered Radicals and Initiating Lipid Peroxidation. Journal of Biological Chemistry, 2003, 278, 48534-48545.	3.4	283
28	Reactive Oxygen Species Production by Mitochondria. Methods in Molecular Biology, 2009, 554, 165-181.	0.9	282
29	Superoxide and hydrogen peroxide production by Drosophila mitochondria. Free Radical Biology and Medicine, 2003, 35, 938-948.	2.9	279
30	The contributions of respiration and glycolysis to extracellular acid production. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 171-181.	1.0	264
31	The efficiency and plasticity of mitochondrial energy transduction. Biochemical Society Transactions, 2005, 33, 897.	3.4	262
32	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
33	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
34	Mitochondrial matrix reactive oxygen species production is very sensitive to mild uncoupling. Biochemical Society Transactions, 2003, 31, 1300-1301.	3.4	255
35	Analysis of the control of respiration rate, phosphorylation rate, proton leak rate and protonmotive force in isolated mitochondria using the 'top-down' approach of metabolic control theory. FEBS Journal, 1990, 188, 313-319.	0.2	253
36	Body mass dependence of H+ leak in mitochondria and its relevance to metabolic rate. Nature, 1993, 362, 628-630.	27.8	241

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37	Bioenergetics of immune functions: fundamental and therapeutic aspects. Trends in Immunology, 2000, 21, 194-199.	7.5	239
38	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
39	Contribution of mitochondrial proton leak to respiration rate in working skeletal muscle and liver and to SMR. American Journal of Physiology - Cell Physiology, 1999, 276, C692-C699.	4.6	237
40	CONTROL OF ELECTRON FLUX THROUGH THE RESPIRATORY CHAIN IN MITOCHONDRIA AND CELLS. Biological Reviews, 1987, 62, 141-193.	10.4	233
41	The proton leak across the mitochondrial inner membrane. Biochimica Et Biophysica Acta - Bioenergetics, 1990, 1018, 128-133.	1.0	228
42	Characteristics of mitochondrial proton leak and control of oxidative phosphorylation in the major oxygen-consuming tissues of the rat. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1188, 405-416.	1.0	226
43	The Role of Mitochondrially Derived ATP in Synaptic Vesicle Recycling. Journal of Biological Chemistry, 2015, 290, 22325-22336.	3.4	219
44	Mitochondrial uncoupling as a target for drug development for the treatment of obesity. Obesity Reviews, 2001, 2, 255-265.	6.5	216
45	The Physiological Significance of Mitochondrial Proton Leak in Animal Cells and Tissues. Bioscience Reports, 1997, 17, 9-16.	2.4	213
46	The Proton Permeability of the Inner Membrane of Liver Mitochondria from Ectothermic and Endothermic Vertebrates and from Obese Rats: Correlations with Standard Metabolic Rate and Phospholipid Fatty Acid Composition. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1998, 119, 325-334.	1.6	207
47	UCP2 and UCP3 rise in starved rat skeletal muscle but mitochondrial proton conductance is unchanged. FEBS Letters, 1999, 462, 257-260.	2.8	204
48	The on-off switches of the mitochondrial uncoupling proteins. Trends in Biochemical Sciences, 2010, 35, 298-307.	7.5	202
49	A 'top-down' approach to the determination of control coefficients in metabolic control theory. FEBS Journal, 1990, 188, 321-325.	0.2	189
50	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
51	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
52	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
53	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
54	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

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55	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
56	The Mechanism of Superoxide Production by the Antimycin-inhibited Mitochondrial Q-cycle. Journal of Biological Chemistry, 2011, 286, 31361-31372.	3.4	158
57	Control of respiration and oxidative phosphorylation in isolated rat liver cells. FEBS Journal, 1990, 192, 355-362.	0.2	157
58	Suppressors of superoxide production from mitochondrial complex III. Nature Chemical Biology, 2015, 11, 834-836.	8.0	157
59	The role of mitochondrial function and cellular bioenergetics in ageing and disease. British Journal of Dermatology, 2013, 169, 1-8.	1.5	154
60	Mitochondria as ATP consumers: Cellular treason in anoxia. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 8670-8674.	7.1	151
61	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
62	Mitochondrial superoxide and aging: uncoupling-protein activity and superoxide production. Biochemical Society Symposia, 2004, 71, 203-213.	2.7	151
63	A Refined Analysis of Superoxide Production by Mitochondrial sn-Glycerol 3-Phosphate Dehydrogenase. Journal of Biological Chemistry, 2012, 287, 42921-42935.	3.4	144
64	Altered relationship between protonmotive force and respiration rate in non-phosphorylating liver mitochondria isolated from rats of different thyroid hormone status. FEBS Journal, 1988, 178, 511-518.	0.2	140
65	Mitochondrial uncoupling and lifespan. Mechanisms of Ageing and Development, 2010, 131, 463-472.	4.6	136
66	Equivalent doses and relative drug potencies for non-genomic glucocorticoid effects: a novel glucocorticoid hierarchy. Biochemical Pharmacology, 1999, 58, 363-368.	4.4	134
67	Proton conductance and fatty acyl composition of liver mitochondria correlates with body mass in birds. Biochemical Journal, 2003, 376, 741-748.	3.7	134
68	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
69	Top Down Metabolic Control Analysis. Journal of Theoretical Biology, 1996, 182, 351-360.	1.7	125
70	The reactions catalysed by the mitochondrial uncoupling proteins UCP2 and UCP3. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1709, 35-44.	1.0	125
71	Signaling Takes a Breath â€“ New Quantitative Perspectives on Bioenergetics and Signal Transduction. Immunity, 2001, 15, 497-502.	14.3	124
72	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

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73	The regulation and turnover of mitochondrial uncoupling proteins. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 785-791.	1.0	122
74	Determining Maximum Glycolytic Capacity Using Extracellular Flux Measurements. PLoS ONE, 2016, 11, e0152016.	2.5	121
75	Mitochondrial uncouplers with an extraordinary dynamic range. Biochemical Journal, 2007, 407, 129-140.	3.7	120
76	Stoichiometric relationship between energy-dependent proton ejection and electron transport in mitochondria.. Proceedings of the National Academy of Sciences of the United States of America, 1976, 73, 437-441.	7.1	119
77	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
78	The contribution of the leak of protons across the mitochondrial inner membrane to standard metabolic rate. Journal of Theoretical Biology, 1990, 145, 267-286.	1.7	115
79	Degradation of an intramitochondrial protein by the cytosolic proteasome. Journal of Cell Science, 2010, 123, 578-585.	2.0	111
80	Inhibition of mitochondrial pyruvate transport by phenylpyruvate and Î±-ketoisocaproate. Biochimica Et Biophysica Acta - Biomembranes, 1974, 367, 102-108.	2.6	109
81	The Efficiency of Cellular Energy Transduction and Its Implications for Obesity. Annual Review of Nutrition, 2008, 28, 13-33.	10.1	109
82	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
83	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
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	Plasticity of Oxidative Metabolism in Variable Climates: Molecular Mechanisms. Physiological and Biochemical Zoology, 2010, 83, 721-732.	1.5	105
86	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
87	A mitochondrial uncoupling artifact can be caused by expression of uncoupling protein 1 in yeast. Biochemical Journal, 2001, 356, 779-789.	3.7	100
88	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
89	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
90	Top-down control analysis of ATP turnover, glycolysis and oxidative phosphorylation in rat hepatocytes. FEBS Journal, 1999, 263, 671-685.	0.2	90

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91	The mechanism of the increase in mitochondrial proton permeability induced by thyroid hormones. FEBS Journal, 1992, 206, 775-781.	0.2	88
92	Control and kinetic analysis of ischemia-damaged heart mitochondria: which parts of the oxidative phosphorylation system are affected by ischemia?. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1995, 1272, 154-158.	3.8	88
93	UCPs â€" unlikely calcium porters. Nature Cell Biology, 2008, 10, 1235-1237.	10.3	88
94	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
95	Physiological Levels of Mammalian Uncoupling Protein 2 Do Not Uncouple Yeast Mitochondria. Journal of Biological Chemistry, 2001, 276, 18633-18639.	3.4	84
96	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
97	Glucagon activates mitochondrial 3-hydroxy-3-methylglutaryl-CoA synthase in vivo by decreasing the extent of succinylation of the enzyme. FEBS Journal, 1990, 187, 169-174.	0.2	80
98	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
99	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
100	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
101	Biomarkers of aging in Drosophila. Aging Cell, 2010, 9, 466-477.	6.7	76
102	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
103	The Determination and Analysis of Site-Specific Rates of Mitochondrial Reactive Oxygen Species Production. Methods in Enzymology, 2013, 526, 189-217.	1.0	76
104	effect of fatty acid composition. Biochimica Et Biophysica Acta - Biomembranes, 1997, 1330, 157-164.	2.6	75
105	Mitochondrial and cytosolic sources of hydrogen peroxide in resting C2C12 myoblasts. Free Radical Biology and Medicine, 2019, 130, 140-150.	2.9	75
106	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
107	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
108	Calcium regulation of oxidative phosphorylation in rat skeletal muscle mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2000, 1457, 57-70.	1.0	72

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109	Measurement of Proton Leak and Electron Leak in Isolated Mitochondria. Methods in Molecular Biology, 2012, 810, 165-182.	0.9	72
110	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
111	On the nature of the mitochondrial proton leak. Biochimica Et Biophysica Acta - Bioenergetics, 1991, 1059, 55-62.	1.0	70
112	Nonsteroidal antiinflammatory drugs and a selective cyclooxygenase 2 inhibitor uncouple mitochondria in intact cells. Arthritis and Rheumatism, 2003, 48, 1438-1444.	6.7	69
113	Stimulation of mitochondrial proton conductance by hydroxynonenal requires a high membrane potential. Bioscience Reports, 2008, 28, 83-88.	2.4	69
114	Mitochondrial proton leak and the uncoupling proteins. Journal of Bioenergetics and Biomembranes, 1999, 31, 517-524.	2.3	68
115	A mitochondrial uncoupling artifact can be caused by expression of uncoupling protein 1 in yeast. Biochemical Journal, 2001, 356, 779.	3.7	68
116	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
117	Dependence of Brown Adipose Tissue Function on CD36-Mediated Coenzyme Q Uptake. Cell Reports, 2015, 10, 505-515.	6.4	67
118	Low complex I content explains the low hydrogen peroxide production rate of heart mitochondria from the longâ€lived pigeon,Columba livia. Aging Cell, 2010, 9, 78-91.	6.7	66
119	Measurement and Analysis of Extracellular Acid Production to Determine Glycolytic Rate. Journal of Visualized Experiments, 2015, , e53464.	0.3	66
120	Impact of endotoxin on UCP homolog mRNA abundance, thermoregulation, and mitochondrial proton leak kinetics. American Journal of Physiology - Endocrinology and Metabolism, 2000, 279, E433-E446.	3.5	65
121	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
122	Experimental assessment of bioenergetic differences caused by the common European mitochondrial DNA haplogroups H and T. Gene, 2008, 411, 69-76.	2.2	64
123	Energization-dependent endogenous activation of proton conductance in skeletal muscle mitochondria. Biochemical Journal, 2008, 412, 131-139.	3.7	64
124	Production of superoxide/H2O2 by dihydroorotate dehydrogenase in rat skeletal muscle mitochondria. Free Radical Biology and Medicine, 2014, 72, 149-155.	2.9	64
125	Effects of thyroid hormones on oxidative phosphorylation. Biochemical Society Transactions, 1993, 21, 785-792.	3.4	63
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	Variable stoichiometry of proton pumping by the mitochondrial respiratory chain. Nature, 1987, 329, 170-172.	27.8	62
128	On the role of uncoupling protein-2 in pancreatic beta cells. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 973-979.	1.0	62
129	Sources of superoxide/H2O2 during mitochondrial proline oxidation. Redox Biology, 2014, 2, 901-909.	9.0	62
130	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
131	Hydroxynonenal and uncoupling proteins: A model for protection against oxidative damage. BioFactors, 2005, 24, 119-130.	5.4	59
132	Title is missing!. , 1998, 184, 13-20.		56
133	Production of superoxide/hydrogen peroxide by the mitochondrial 2-oxoadipate dehydrogenase complex. Free Radical Biology and Medicine, 2016, 91, 247-255.	2.9	56
134	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
135	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
136	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
137	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
138	Rapid turnover of mitochondrial uncoupling protein 3. Biochemical Journal, 2010, 426, 13-17.	3.7	53
139	Liposomes from mammalian liver mitochondria are more polyunsaturated and leakier to protons than those from reptiles. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1994, 108, 181-188.	0.2	52
140	Primary causes of decreased mitochondrial oxygen consumption during metabolic depression in snail cells. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 282, R372-R382.	1.8	52
141	The stoichiometry of charge translocation by cytochrome oxidase and the cytochrome bc1 complex of mitochondria at high membrane potential. FEBS Journal, 1988, 173, 645-651.	0.2	51
142	Ubiquinone is not required for proton conductance by uncoupling protein 1 in yeast mitochondria. Biochemical Journal, 2004, 379, 309-315.	3.7	51
143	Uncoupling protein 3 protects aconitase against inactivation in isolated skeletal muscle mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1709, 150-156.	1.0	51
144	The effects of methylprednisolone on oxidative phosphorylation in Concanavalin-A-stimulated thymocytes. Top-down elasticity analysis and control analysis. FEBS Journal, 1994, 223, 513-519.	0.2	50

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145	Methylprednisolone inhibits uptake of Ca2+ and Na+ ions into concanavalin A-stimulated thymocytes. Biochemical Journal, 1997, 326, 329-332.	3.7	50
146	AMP decreases the efficiency of skeletal-muscle mitochondria. Biochemical Journal, 2000, 351, 307-311.	3.7	49
147	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
148	4-Hydroxy-2-nonenal and uncoupling proteins: an approach for regulation of mitochondrial ROS production. Redox Report, 2007, 12, 26-29.	4.5	49
149	High membrane potential promotes alkenal-induced mitochondrial uncoupling and influences adenine nucleotide translocase conformation. Biochemical Journal, 2008, 413, 323-332.	3.7	49
150	Effects of magnesium and nucleotides on the proton conductance of rat skeletal-muscle mitochondria. Biochemical Journal, 2000, 348, 209-213.	3.7	48
151	Localisation of the Sites of Action of Cadmium on Oxidative Phosphorylation in Potato Tuber Mitochondria Using Top-Down Elasticity Analysis. FEBS Journal, 1994, 225, 897-906.	0.2	47
152	Internal regulation of ATP turnover, glycolysis and oxidative phosphorylation in rat hepatocytes. FEBS Journal, 1999, 266, 737-749.	0.2	47
153	Fatty Acids Change the Conformation of Uncoupling Protein 1 (UCP1). Journal of Biological Chemistry, 2012, 287, 36845-36853.	3.4	47
154	Membrane-potential-dependent changes in the stoichiometry of charge translocation by the mitochondrial electron transport chain. FEBS Journal, 1988, 173, 637-644.	0.2	46
155	Proportional activation coefficients during stimulation of oxidative phosphorylation by lactate and pyruvate or by vasopressin. Biochimica Et Biophysica Acta - Bioenergetics, 1995, 1229, 315-322.	1.0	46
156	Proton leak and control of oxidative phosphorylation in perfused, resting rat skeletal muscle. Biochimica Et Biophysica Acta - Bioenergetics, 1996, 1276, 45-50.	1.0	46
157	Intrinsic Bioenergetic Properties and Stress Sensitivity of Dopaminergic Synaptosomes. Journal of Neuroscience, 2011, 31, 4524-4534.	3.6	46
158	Novel Inhibitors of Mitochondrial sn-Glycerol 3-phosphate Dehydrogenase. PLoS ONE, 2014, 9, e89938.	2.5	46
159	The Stoicheiometric Relationships between Electron Transport, Proton Translocation and Adenosine Triphosphate Synthesis and Hydrolysis in Mitochondria. Biochemical Society Transactions, 1977, 5, 1615-1620.	3.4	45
160	The contribution of ATP turnover by the Na+/K+-ATPase to the rate of respiration of hepatocytes. Biochimica Et Biophysica Acta - Bioenergetics, 1989, 976, 241-245.	1.0	45
161	Chapter 23 Measuring Mitochondrial Bioenergetics in INS-1E Insulinoma Cells. Methods in Enzymology, 2009, 457, 405-424.	1.0	44
162	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

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163	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
164	Compromised Mitochondrial Fatty Acid Synthesis in Transgenic Mice Results in Defective Protein Lipoylation and Energy Disequilibrium. PLoS ONE, 2012, 7, e47196.	2.5	44
165	Hypothyroidism in rats decreases mitochondrial inner membrane cation permeability. FEBS Letters, 1989, 248, 175-178.	2.8	43
166	Control of hepatic mitochondrial 3-hydroxy-3-methylglutaryl-CoA synthase during the foetal/neonatal transition, suckling and weaning in the rat. FEBS Journal, 1991, 195, 449-454.	0.2	42
167	Novel Uncoupling Proteins. Novartis Foundation Symposium, 0, , 70-91.	1.1	42
168	Characterisation of the control of respiration in potato tuber mitochondria using the top-down approach of metabolic control analysis. FEBS Journal, 1992, 210, 775-784.	0.2	40
169	Dynamic regulation of uncoupling protein 2 content in INS-1E insulinoma cells. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 1378-1383.	1.0	40
170	Control of oxidative phosphorylation in liver mitochondria and hepatocytes. Biochemical Society Transactions, 1993, 21, 757-762.	3.4	39
171	Hyperthyroidism stimulates mitochondrial proton leak and ATP turnover in rat hepatocytes but does not change the overall kinetics of substrate oxidation reactions. Canadian Journal of Physiology and Pharmacology, 1994, 72, 899-908.	1.4	39
172	Quantitative Determination of the Regulation of Oxidative Phosphorylation by Cadmium in Potato Tuber Mitochondria. FEBS Journal, 1994, 225, 923-935.	0.2	38
173	Effects of the mitogen concanavalin A on pathways of thymocyte energy metabolism. Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1412, 129-138.	1.0	37
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