

# Michael Murphy

## List of Publications by Year in descending order

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435  
papers

57,426  
citations

910

119  
h-index

1594

222  
g-index

450  
all docs

450  
docs citations

450  
times ranked

60243  
citing authors

#	ARTICLE	IF	CITATIONS
1	How mitochondria produce reactive oxygen species. <i>Biochemical Journal</i> , 2009, 417, 1-13.	1.7	6,321
2	Ischaemic accumulation of succinate controls reperfusion injury through mitochondrial ROS. <i>Nature</i> , 2014, 515, 431-435.	13.7	1,989
3	Succinate Dehydrogenase Supports Metabolic Repurposing of Mitochondria to Drive Inflammatory Macrophages. <i>Cell</i> , 2016, 167, 457-470.e13.	13.5	1,396
4	Itaconate is an anti-inflammatory metabolite that activates Nrf2 via alkylation of KEAP1. <i>Nature</i> , 2018, 556, 113-117.	13.7	1,115
5	Targeting Antioxidants to Mitochondria by Conjugation to Lipophilic Cations. <i>Annual Review of Pharmacology and Toxicology</i> , 2007, 47, 629-656.	4.2	1,010
6	Selective Targeting of a Redox-active Ubiquinone to Mitochondria within Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 4588-4596.	1.6	960
7	Selective fluorescent imaging of superoxide in vivo using ethidium-based probes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15038-15043.	3.3	684
8	Unraveling the Biological Roles of Reactive Oxygen Species. <i>Cell Metabolism</i> , 2011, 13, 361-366.	7.2	661
9	Delivery of bioactive molecules to mitochondria in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 5407-5412.	3.3	638
10	Targeting an antioxidant to mitochondria decreases cardiac ischemia-reperfusion injury. <i>FASEB Journal</i> , 2005, 19, 1088-1095.	0.2	556
11	Redox Homeostasis and Mitochondrial Dynamics. <i>Cell Metabolism</i> , 2015, 22, 207-218.	7.2	538
12	A Unifying Mechanism for Mitochondrial Superoxide Production during Ischemia-Reperfusion Injury. <i>Cell Metabolism</i> , 2016, 23, 254-263.	7.2	527
13	DICER1 Loss and Alu RNA Induce Age-Related Macular Degeneration via the NLRP3 Inflammasome and MyD88. <i>Cell</i> , 2012, 149, 847-859.	13.5	526
14	Cardioprotection by S-nitrosation of a cysteine switch on mitochondrial complex I. <i>Nature Medicine</i> , 2013, 19, 753-759.	15.2	521
15	The Qo site of the mitochondrial complex III is required for the transduction of hypoxic signaling via reactive oxygen species production. <i>Journal of Cell Biology</i> , 2007, 177, 1029-1036.	2.3	510
16	Mitochondria as a therapeutic target for common pathologies. <i>Nature Reviews Drug Discovery</i> , 2018, 17, 865-886.	21.5	508
17	Complex I Is the Major Site of Mitochondrial Superoxide Production by Paraquat. <i>Journal of Biological Chemistry</i> , 2008, 283, 1786-1798.	1.6	481
18	Defining roles of specific reactive oxygen species (ROS) in cell biology and physiology. <i>Nature Reviews Molecular Cell Biology</i> , 2022, 23, 499-515.	16.1	469

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19	A double-blind, placebo-controlled study to assess the mitochondria-targeted antioxidant MitoQ as a disease-modifying therapy in Parkinson's disease. <i>Movement Disorders</i> , 2010, 25, 1670-1674.	2.2	467
20	Targeting lipophilic cations to mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 1028-1031.	0.5	455
21	Brain energy rescue: an emerging therapeutic concept for neurodegenerative disorders of ageing. <i>Nature Reviews Drug Discovery</i> , 2020, 19, 609-633.	21.5	441
22	Mitochondrial pharmacology. <i>Trends in Pharmacological Sciences</i> , 2012, 33, 341-352.	4.0	430
23	Animal and human studies with the mitochondria-targeted antioxidant MitoQ. <i>Annals of the New York Academy of Sciences</i> , 2010, 1201, 96-103.	1.8	428
24	Selective targeting of an antioxidant to mitochondria. <i>FEBS Journal</i> , 1999, 263, 709-716.	0.2	409
25	Mitochondria-Targeted Antioxidants Protect Against Amyloid- $\beta^2$ Toxicity in Alzheimer's Disease Neurons. <i>Journal of Alzheimer's Disease</i> , 2010, 20, S609-S631.	1.2	404
26	Prevention of Mitochondrial Oxidative Damage as a Therapeutic Strategy in Diabetes. <i>Diabetes</i> , 2004, 53, S110-S118.	0.3	401
27	Drug delivery to mitochondria: the key to mitochondrial medicine. <i>Advanced Drug Delivery Reviews</i> , 2000, 41, 235-250.	6.6	398
28	Ferredoxin reductase affects p53-dependent, 5-fluorouracil-induced apoptosis in colorectal cancer cells. <i>Nature Medicine</i> , 2001, 7, 1111-1117.	15.2	389
29	Accumulation of succinate controls activation of adipose tissue thermogenesis. <i>Nature</i> , 2018, 560, 102-106.	13.7	380
30	Nitric oxide and cell death. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1999, 1411, 401-414.	0.5	371
31	Glutaredoxin 2 Catalyzes the Reversible Oxidation and Glutathionylation of Mitochondrial Membrane Thiol Proteins. <i>Journal of Biological Chemistry</i> , 2004, 279, 47939-47951.	1.6	358
32	Reversible Glutathionylation of Complex I Increases Mitochondrial Superoxide Formation. <i>Journal of Biological Chemistry</i> , 2003, 278, 19603-19610.	1.6	357
33	Guidelines for measuring reactive oxygen species and oxidative damage in cells and in vivo. <i>Nature Metabolism</i> , 2022, 4, 651-662.	5.1	356
34	Superoxide Activates Mitochondrial Uncoupling Protein 2 from the Matrix Side. <i>Journal of Biological Chemistry</i> , 2002, 277, 47129-47135.	1.6	355
35	Lipophilic triphenylphosphonium cations as tools in mitochondrial bioenergetics and free radical biology. <i>Biochemistry (Moscow)</i> , 2005, 70, 222-230.	0.7	354
36	The Mitochondria-Targeted Antioxidant MitoQ Prevents Loss of Spatial Memory Retention and Early Neuropathology in a Transgenic Mouse Model of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2011, 31, 15703-15715.	1.7	354

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37	Mitochondria-Targeted Small Molecule Therapeutics and Probes. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 3021-3038.	2.5	344
38	Mitochondrial and nuclear DNA matching shapes metabolism and healthy ageing. <i>Nature</i> , 2016, 535, 561-565.	13.7	333
39	Oxidative stress-induced mitochondrial dysfunction drives inflammation and airway smooth muscle remodeling in patients with chronic obstructive pulmonary disease. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 136, 769-780.	1.5	332
40	Mitochondria-targeted antioxidants protect Friedreich Ataxia fibroblasts from endogenous oxidative stress more effectively than untargeted antioxidants. <i>FASEB Journal</i> , 2003, 17, 1-10.	0.2	324
41	Selective targeting of bioactive compounds to mitochondria. <i>Trends in Biotechnology</i> , 1997, 15, 326-330.	4.9	322
42	Mitochondria-Targeted Antioxidant MitoQ Improves Endothelial Function and Attenuates Cardiac Hypertrophy. <i>Hypertension</i> , 2009, 54, 322-328.	1.3	319
43	Interactions of Mitochondria-targeted and Untargeted Ubiquinones with the Mitochondrial Respiratory Chain and Reactive Oxygen Species. <i>Journal of Biological Chemistry</i> , 2005, 280, 21295-21312.	1.6	318
44	The mitochondria-targeted anti-oxidant mitoquinone decreases liver damage in a phase II study of hepatitis C patients. <i>Liver International</i> , 2010, 30, 1019-1026.	1.9	313
45	Complex I assembly into supercomplexes determines differential mitochondrial ROS production in neurons and astrocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13063-13068.	3.3	300
46	Mitochondrial ROS Produced via Reverse Electron Transport Extend Animal Lifespan. <i>Cell Metabolism</i> , 2016, 23, 725-734.	7.2	296
47	Mitochondrial Thiols in Antioxidant Protection and Redox Signaling: Distinct Roles for Glutathionylation and Other Thiol Modifications. <i>Antioxidants and Redox Signaling</i> , 2012, 16, 476-495.	2.5	295
48	Superoxide Activates Uncoupling Proteins by Generating Carbon-centered Radicals and Initiating Lipid Peroxidation. <i>Journal of Biological Chemistry</i> , 2003, 278, 48534-48545.	1.6	283
49	Chronic Supplementation With a Mitochondrial Antioxidant (MitoQ) Improves Vascular Function in Healthy Older Adults. <i>Hypertension</i> , 2018, 71, 1056-1063.	1.3	280
50	Measurement of H <sub>2</sub> O <sub>2</sub> within Living <i>Drosophila</i> during Aging Using a Ratiometric Mass Spectrometry Probe Targeted to the Mitochondrial Matrix. <i>Cell Metabolism</i> , 2011, 13, 340-350.	7.2	267
51	Inhibition of complex I of the electron transport chain causes O <sub>2</sub> <sup>•-</sup> -mediated mitochondrial outgrowth. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 288, C1440-C1450.	2.1	260
52	Coupling Krebs cycle metabolites to signalling in immunity and cancer. <i>Nature Metabolism</i> , 2019, 1, 16-33.	5.1	260
53	Antioxidants that protect mitochondria reduce interleukin-6 and oxidative stress, improve mitochondrial function, and reduce biochemical markers of organ dysfunction in a rat model of acute sepsis. <i>British Journal of Anaesthesia</i> , 2013, 110, 472-480.	1.5	255
54	Metformin Inhibits the Production of Reactive Oxygen Species from NADH:Ubiquinone Oxidoreductase to Limit Induction of Interleukin-1 $\beta$ (IL-1 $\beta$ ) and Boosts Interleukin-10 (IL-10) in Lipopolysaccharide (LPS)-activated Macrophages. <i>Journal of Biological Chemistry</i> , 2015, 290, 20348-20359.	1.6	252

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55	Antioxidant and prooxidant properties of mitochondrial Coenzyme Q. Archives of Biochemistry and Biophysics, 2004, 423, 47-56.	1.4	245
56	Krebs Cycle Reimagined: The Emerging Roles of Succinate and Itaconate as Signal Transducers. Cell, 2018, 174, 780-784.	13.5	237
57	CONTROL OF ELECTRON FLUX THROUGH THE RESPIRATORY CHAIN IN MITOCHONDRIA AND CELLS. Biological Reviews, 1987, 62, 141-193.	4.7	233
58	Mitochondrial redox signalling at a glance. Journal of Cell Science, 2012, 125, 801-806.	1.2	225
59	Dysregulated metabolism contributes to oncogenesis. Seminars in Cancer Biology, 2015, 35, S129-S150.	4.3	225
60	The mitochondria-targeted antioxidant MitoQ protects against organ damage in a lipopolysaccharide-peptidoglycan model of sepsis. Free Radical Biology and Medicine, 2008, 45, 1559-1565.	1.3	224
61	Designing a broad-spectrum integrative approach for cancer prevention and treatment. Seminars in Cancer Biology, 2015, 35, S276-S304.	4.3	220
62	Mitochondrial DNA Damage Can Promote Atherosclerosis Independently of Reactive Oxygen Species Through Effects on Smooth Muscle Cells and Monocytes and Correlates With Higher-Risk Plaques in Humans. Circulation, 2013, 128, 702-712.	1.6	218
63	Macrophage-Derived Extracellular Succinate Licenses Neural Stem Cells to Suppress Chronic Neuroinflammation. Cell Stem Cell, 2018, 22, 355-368.e13.	5.2	216
64	Interaction of the Mitochondria-targeted Antioxidant MitoQ with Phospholipid Bilayers and Ubiquinone Oxidoreductases*. Journal of Biological Chemistry, 2007, 282, 14708-14718.	1.6	213
65	Mitochondria-derived Reactive Oxygen Species Mediate Blue Light-induced Death of Retinal Pigment Epithelial Cells. Photochemistry and Photobiology, 2004, 79, 470.	1.3	210
66	A mitochondria-targeted nitroxide is reduced to its hydroxylamine by ubiquinol in mitochondria. Free Radical Biology and Medicine, 2008, 44, 1406-1419.	1.3	210
67	Changes in mitochondrial membrane potential during staurosporine-induced apoptosis in Jurkat cells. FEBS Letters, 2000, 475, 267-272.	1.3	207
68	Mitochondria-derived ROS activate AMP-activated protein kinase (AMPK) indirectly. Journal of Biological Chemistry, 2018, 293, 17208-17217.	1.6	207
69	A mitochondria-targeted S-nitrosothiol modulates respiration, nitrosates thiols, and protects against ischemia-reperfusion injury. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10764-10769.	3.3	205
70	Control of mitochondrial superoxide production by reverse electron transport at complex I. Journal of Biological Chemistry, 2018, 293, 9869-9879.	1.6	204
71	DNA Damage Links Mitochondrial Dysfunction to Atherosclerosis and the Metabolic Syndrome. Circulation Research, 2010, 107, 1021-1031.	2.0	199
72	Mutant KRas-Induced Mitochondrial Oxidative Stress in Acinar Cells Upregulates EGFR Signaling to Drive Formation of Pancreatic Precancerous Lesions. Cell Reports, 2016, 14, 2325-2336.	2.9	199

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73	Cysteine residues exposed on protein surfaces are the dominant intramitochondrial thiol and may protect against oxidative damage. <i>FEBS Journal</i> , 2010, 277, 1465-1480.	2.2	198
74	Development of a single-chain, quasi-dimeric zinc-finger nuclease for the selective degradation of mutated human mitochondrial DNA. <i>Nucleic Acids Research</i> , 2008, 36, 3926-3938.	6.5	195
75	Consequences of long-term oral administration of the mitochondria-targeted antioxidant MitoQ to wild-type mice. <i>Free Radical Biology and Medicine</i> , 2010, 48, 161-172.	1.3	193
76	MitoQ counteracts telomere shortening and elongates lifespan of fibroblasts under mild oxidative stress. <i>Aging Cell</i> , 2003, 2, 141-143.	3.0	192
77	Mitochondrially targeted compounds and their impact on cellular bioenergetics. <i>Redox Biology</i> , 2013, 1, 86-93.	3.9	192
78	A redox switch in angiotensinogen modulates angiotensin release. <i>Nature</i> , 2010, 468, 108-111.	13.7	191
79	Prevention of diabetic nephropathy in <i>Ins2+/<math>\beta</math>Akit1</i> mice by the mitochondria-targeted therapy MitoQ. <i>Biochemical Journal</i> , 2010, 432, 9-19.	1.7	189
80	Mitochondria-targeted antioxidant (MitoQ) ameliorates age-related arterial endothelial dysfunction in mice. <i>Journal of Physiology</i> , 2014, 592, 2549-2561.	1.3	185
81	Persistent S-Nitrosation of Complex I and Other Mitochondrial Membrane Proteins by S-Nitrosothiols but Not Nitric Oxide or Peroxynitrite. <i>Journal of Biological Chemistry</i> , 2006, 281, 10056-10065.	1.6	183
82	Glutathionylation of Mitochondrial Proteins. <i>Antioxidants and Redox Signaling</i> , 2005, 7, 999-1010.	2.5	181
83	Ubiad1 Is an Antioxidant Enzyme that Regulates eNOS Activity by CoQ10 Synthesis. <i>Cell</i> , 2013, 152, 504-518.	13.5	176
84	Specific Modification of Mitochondrial Protein Thiols in Response to Oxidative Stress. <i>Journal of Biological Chemistry</i> , 2002, 277, 17048-17056.	1.6	173
85	Fine-tuning the hydrophobicity of a mitochondria-targeted antioxidant. <i>FEBS Letters</i> , 2004, 571, 9-16.	1.3	170
86	Cholangiocyte organoids can repair bile ducts after transplantation in the human liver. <i>Science</i> , 2021, 371, 839-846.	6.0	170
87	Rapid and extensive uptake and activation of hydrophobic triphenylphosphonium cations within cells. <i>Biochemical Journal</i> , 2008, 411, 633-645.	1.7	168
88	Complex I within Oxidatively Stressed Bovine Heart Mitochondria Is Glutathionylated on Cys-531 and Cys-704 of the 75-kDa Subunit. <i>Journal of Biological Chemistry</i> , 2008, 283, 24801-24815.	1.6	167
89	Mitochondrial Dysfunction Indirectly Elevates ROS Production by the Endoplasmic Reticulum. <i>Cell Metabolism</i> , 2013, 18, 145-146.	7.2	167
90	Peroxynitrite. <i>General Pharmacology</i> , 1998, 31, 179-186.	0.7	165

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91	Altered mitochondrial function in fibroblasts containing MELAS or MERRF mitochondrial DNA mutations. <i>Biochemical Journal</i> , 1996, 318, 401-407.	1.7	163
92	Release of apoptogenic proteins from the mitochondrial intermembrane space during the mitochondrial permeability transition. <i>FEBS Letters</i> , 1997, 418, 282-286.	1.3	161
93	Protection against renal ischemia-reperfusion injury in vivo by the mitochondria targeted antioxidant MitoQ. <i>Redox Biology</i> , 2015, 5, 163-168.	3.9	159
94	The mitochondria-targeted antioxidant MitoQ decreases features of the metabolic syndrome in ATM+/+ / ApoE-/- mice. <i>Free Radical Biology and Medicine</i> , 2012, 52, 841-849.	1.3	154
95	KSR2 Mutations Are Associated with Obesity, Insulin Resistance, and Impaired Cellular Fuel Oxidation. <i>Cell</i> , 2013, 155, 765-777.	13.5	154
96	Quantitation and origin of the mitochondrial membrane potential in human cells lacking mitochondrial DNA. <i>FEBS Journal</i> , 1999, 262, 108-116.	0.2	153
97	Mitochondria-targeted antioxidant MitoQ ameliorates experimental mouse colitis by suppressing NLRP3 inflammasome-mediated inflammatory cytokines. <i>BMC Medicine</i> , 2013, 11, 178.	2.3	153
98	Targeting peptide nucleic acid (PNA) oligomers to mitochondria within cells by conjugation to lipophilic cations: implications for mitochondrial DNA replication, expression and disease. <i>Nucleic Acids Research</i> , 2001, 29, 1852-1863.	6.5	151
99	Mitochondrial superoxide and aging: uncoupling-protein activity and superoxide production. <i>Biochemical Society Symposia</i> , 2004, 71, 203-213.	2.7	151
100	Mitochondrial H <sub>2</sub> O <sub>2</sub> generated from electron transport chain complex I stimulates muscle differentiation. <i>Cell Research</i> , 2011, 21, 817-834.	5.7	150
101	Sequence-specific modification of mitochondrial DNA using a chimeric zinc finger methylase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19689-19694.	3.3	147
102	Mitochondrial ROS Production Protects the Intestine from Inflammation through Functional M2 Macrophage Polarization. <i>Cell Reports</i> , 2017, 19, 1202-1213.	2.9	146
103	Mitochondrial reactive oxygen species regulate the temporal activation of nuclear factor $\kappa$ B to modulate tumour necrosis factor-induced apoptosis: evidence from mitochondria-targeted antioxidants. <i>Biochemical Journal</i> , 2005, 389, 83-89.	1.7	142
104	Bioenergetic consequences of accumulating the common 4977-bp mitochondrial DNA deletion. <i>FEBS Journal</i> , 1998, 257, 192-201.	0.2	141
105	Slip and leak in mitochondrial oxidative phosphorylation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1989, 977, 123-141.	0.5	136
106	UCP1 deficiency causes brown fat respiratory chain depletion and sensitizes mitochondria to calcium overload-induced dysfunction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7981-7986.	3.3	136
107	Antioxidants can inhibit basal autophagy and enhance neurodegeneration in models of polyglutamine disease. <i>Human Molecular Genetics</i> , 2010, 19, 3413-3429.	1.4	135
108	Targeting Mitochondria-Derived Reactive Oxygen Species to Reduce Epithelial Barrier Dysfunction and Colitis. <i>American Journal of Pathology</i> , 2014, 184, 2516-2527.	1.9	134

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109	Detection of Reactive Oxygen Species-sensitive Thiol Proteins by Redox Difference Gel Electrophoresis. <i>Journal of Biological Chemistry</i> , 2007, 282, 22040-22051.	1.6	133
110	Amyloid $\beta$ -Induced Impairments in Hippocampal Synaptic Plasticity Are Rescued by Decreasing Mitochondrial Superoxide. <i>Journal of Neuroscience</i> , 2011, 31, 5589-5595.	1.7	132
111	Identification of S-nitrosated mitochondrial proteins by S-nitrosothiol difference in gel electrophoresis (SNO-DIGE): implications for the regulation of mitochondrial function by reversible S-nitrosation. <i>Biochemical Journal</i> , 2010, 430, 49-59.	1.7	130
112	Peroxynitrite causes calcium efflux from mitochondria which is prevented by Cyclosporin A. <i>FEBS Letters</i> , 1994, 345, 237-240.	1.3	129
113	$\beta$ -Amyloid Mediated Nitration of Manganese Superoxide Dismutase. <i>American Journal of Pathology</i> , 2006, 168, 1608-1618.	1.9	129
114	Understanding and preventing mitochondrial oxidative damage. <i>Biochemical Society Transactions</i> , 2016, 44, 1219-1226.	1.6	129
115	Malonylation of GAPDH is an inflammatory signal in macrophages. <i>Nature Communications</i> , 2019, 10, 338.	5.8	129
116	How mitochondrial damage affects cell function. <i>Journal of Biomedical Science</i> , 2002, 9, 475-487.	2.6	128
117	Reactive oxygen species induce virus-independent MAVS oligomerization in systemic lupus erythematosus. <i>Science Signaling</i> , 2016, 9, ra115.	1.6	127
118	Neuroprotective effects of the mitochondria-targeted antioxidant MitoQ in a model of inherited amyotrophic lateral sclerosis. <i>Free Radical Biology and Medicine</i> , 2014, 70, 204-213.	1.3	126
119	Peroxynitrite Formed by Simultaneous Nitric Oxide and Superoxide Generation Causes Cyclosporin-A-Sensitive Mitochondrial Calcium Efflux and Depolarisation. <i>FEBS Journal</i> , 1995, 234, 231-239.	0.2	125
120	MitoQ administration prevents endotoxin-induced cardiac dysfunction. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 297, R1095-R1102.	0.9	125
121	The effects of exogenous antioxidants on lifespan and oxidative stress resistance in <i>Drosophila melanogaster</i> . <i>Mechanisms of Ageing and Development</i> , 2006, 127, 356-370.	2.2	124
122	cGMP-Elevating Compounds and Ischemic Conditioning Provide Cardioprotection Against Ischemia and Reperfusion Injury via Cardiomyocyte-Specific BK Channels. <i>Circulation</i> , 2017, 136, 2337-2355.	1.6	124
123	Mitochondrial oxidative stress and the metabolic syndrome. <i>Trends in Endocrinology and Metabolism</i> , 2012, 23, 429-434.	3.1	122
124	Mitochondrial uncouplers with an extraordinary dynamic range. <i>Biochemical Journal</i> , 2007, 407, 129-140.	1.7	120
125	Antioxidants as therapies: can we improve on nature?. <i>Free Radical Biology and Medicine</i> , 2014, 66, 20-23.	1.3	120
126	Mitochondrial Respiration Is Reduced in Atherosclerosis, Promoting Necrotic Core Formation and Reducing Relative Fibrous Cap Thickness. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 2322-2332.	1.1	120



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127	Guidelines on experimental methods to assess mitochondrial dysfunction in cellular models of neurodegenerative diseases. <i>Cell Death and Differentiation</i> , 2018, 25, 542-572.	5.0	120
128	Prevention of Mitochondrial Oxidative Damage Using Targeted Antioxidants. <i>Annals of the New York Academy of Sciences</i> , 2002, 959, 263-274.	1.8	119
129	Antioxidant properties of MitoTEMPOL and its hydroxylamine. <i>Free Radical Research</i> , 2009, 43, 4-12.	1.5	119
130	Oncogenic KRAS Induces NIX-Mediated Mitophagy to Promote Pancreatic Cancer. <i>Cancer Discovery</i> , 2019, 9, 1268-1287.	7.7	119
131	Mitochondrial targeting of quinones: Therapeutic implications. <i>Mitochondrion</i> , 2007, 7, S94-S102.	1.6	118
132	Synthesis and Characterization of a Triphenylphosphonium-conjugated Peroxidase Mimetic. <i>Journal of Biological Chemistry</i> , 2005, 280, 24113-24126.	1.6	117
133	Antioxidant and pro-oxidant properties of pyrroloquinoline quinone (PQQ): implications for its function in biological systems. <i>Biochemical Pharmacology</i> , 2003, 65, 67-74.	2.0	116
134	Selective Uncoupling of Individual Mitochondria within a Cell Using a Mitochondria-Targeted Photoactivated Protonophore. <i>Journal of the American Chemical Society</i> , 2012, 134, 758-761.	6.6	115
135	The mitochondria-targeted anti-oxidant MitoQ reduces aspects of mitochondrial fission in the 6-OHDA cell model of Parkinson's disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013, 1832, 174-182.	1.8	115
136	Neurological deficits caused by tissue hypoxia in neuroinflammatory disease. <i>Annals of Neurology</i> , 2013, 74, 815-825.	2.8	114
137	Mitochondria-targeted antioxidants as therapies. <i>Discovery Medicine</i> , 2011, 11, 106-14.	0.5	113
138	Measurements of protein carbonyls, ortho- and meta-tyrosine and oxidative phosphorylation complex activity in mitochondria from young and old rats. <i>Free Radical Biology and Medicine</i> , 2001, 31, 181-190.	1.3	112
139	A targeted antioxidant reveals the importance of mitochondrial reactive oxygen species in the hypoxic signaling of HIF-1 $\alpha$ . <i>FEBS Letters</i> , 2005, 579, 2669-2674.	1.3	111
140	Selective superoxide generation within mitochondria by the targeted redox cyler MitoParaquat. <i>Free Radical Biology and Medicine</i> , 2015, 89, 883-894.	1.3	111
141	Mitochondrial oxidative stress causes insulin resistance without disrupting oxidative phosphorylation. <i>Journal of Biological Chemistry</i> , 2018, 293, 7315-7328.	1.6	110
142	The $\alpha$ -mitoflash $\alpha$ <sup>TM</sup> probe cpYFP does not respond to superoxide. <i>Nature</i> , 2014, 514, E12-E14.	18.7	109
143	Using the mitochondria-targeted ratiometric mass spectrometry probe MitoB to measure H <sub>2</sub> O <sub>2</sub> in living <i>Drosophila</i> . <i>Nature Protocols</i> , 2012, 7, 946-958.	5.5	108
144	Succinate metabolism: a new therapeutic target for myocardial reperfusion injury. <i>Cardiovascular Research</i> , 2016, 111, 134-141.	1.8	107

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145	Reactivity of ubiquinone and ubiquinol with superoxide and the hydroperoxyl radical: implications for in vivo antioxidant activity. <i>Free Radical Biology and Medicine</i> , 2009, 46, 105-109.	1.3	106
146	Mitochondrial ROS-derived PTEN oxidation activates PI3K pathway for mTOR-induced myogenic autophagy. <i>Cell Death and Differentiation</i> , 2018, 25, 1921-1937.	5.0	106
147	Accumulation of lipophilic dicationic dyes by mitochondria and cells. <i>Biochemical Journal</i> , 2006, 400, 199-208.	1.7	105
148	Mitochondrial Function Is Required for Hydrogen Peroxide-induced Growth Factor Receptor Transactivation and Downstream Signaling. <i>Journal of Biological Chemistry</i> , 2004, 279, 35079-35086.	1.6	103
149	Succinate accumulation drives ischaemia-reperfusion injury during organ transplantation. <i>Nature Metabolism</i> , 2019, 1, 966-974.	5.1	103
150	Rapid uptake of lipophilic triphenylphosphonium cations by mitochondria in vivo following intravenous injection: Implications for mitochondria-specific therapies and probes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2010, 1800, 1009-1017.	1.1	101
151	Mitochondria-targeted Antioxidants Protect Pancreatic $\beta$ -cells against Oxidative Stress and Improve Insulin Secretion in Glucotoxicity and Glucolipotoxicity. <i>Cellular Physiology and Biochemistry</i> , 2011, 28, 873-886.	1.1	101
152	MitoQ improves mitochondrial dysfunction in heart failure induced by pressure overload. <i>Free Radical Biology and Medicine</i> , 2018, 117, 18-29.	1.3	100
153	Tim18p, a New Subunit of the TIM22 Complex That Mediates Insertion of Imported Proteins into the Yeast Mitochondrial Inner Membrane. <i>Molecular and Cellular Biology</i> , 2000, 20, 1187-1193.	1.1	99
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