Michael Murphy

List of Publications by Year
in descending order

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435 papers	57,426 citations	764 119 h-index	1381 222 g-index
450 all docs	450 docs citations	450 times ranked	55184 citing authors

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

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19	A doubleâ€blind, placeboâ€controlled study to assess the mitochondriaâ€targeted antioxidant MitoQ as a diseaseâ€modifying therapy in Parkinson's disease. Movement Disorders, 2010, 25, 1670-1674.	2.2	467
20	Targeting lipophilic cations to mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 1028-1031.	0.5	455
21	Brain energy rescue: an emerging therapeutic concept for neurodegenerative disorders of ageing. Nature Reviews Drug Discovery, 2020, 19, 609-633.	21.5	441
22	Mitochondrial pharmacology. Trends in Pharmacological Sciences, 2012, 33, 341-352.	4.0	430
23	Animal and human studies with the mitochondriaâ€targeted antioxidant MitoQ. Annals of the New York Academy of Sciences, 2010, 1201, 96-103.	1.8	428
24	Selective targeting of an antioxidant to mitochondria. FEBS Journal, 1999, 263, 709-716.	0.2	409
25	Mitochondria-Targeted Antioxidants Protect Against Amyloid-Î² Toxicity in Alzheimer's Disease Neurons. Journal of Alzheimer's Disease, 2010, 20, S609-S631.	1.2	404
26	Prevention of Mitochondrial Oxidative Damage as a Therapeutic Strategy in Diabetes. Diabetes, 2004, 53, S110-S118.	0.3	401
27	Drug delivery to mitochondria: the key to mitochondrial medicine. Advanced Drug Delivery Reviews, 2000, 41, 235-250.	6.6	398
28	Ferredoxin reductase affects p53-dependent, 5-fluorouracilâ€“induced apoptosis in colorectal cancer cells. Nature Medicine, 2001, 7, 1111-1117.	15.2	389
29	Accumulation of succinate controls activation of adipose tissue thermogenesis. Nature, 2018, 560, 102-106.	13.7	380
30	Nitric oxide and cell death. Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1411, 401-414.	0.5	371
31	Glutaredoxin 2 Catalyzes the Reversible Oxidation and Glutathionylation of Mitochondrial Membrane Thiol Proteins. Journal of Biological Chemistry, 2004, 279, 47939-47951.	1.6	358
32	Reversible Glutathionylation of Complex I Increases Mitochondrial Superoxide Formation. Journal of Biological Chemistry, 2003, 278, 19603-19610.	1.6	357
33	Guidelines for measuring reactive oxygen species and oxidative damage in cells and in vivo. Nature Metabolism, 2022, 4, 651-662.	5.1	356
34	Superoxide Activates Mitochondrial Uncoupling Protein 2 from the Matrix Side. Journal of Biological Chemistry, 2002, 277, 47129-47135.	1.6	355
35	Lipophilic triphenylphosphonium cations as tools in mitochondrial bioenergetics and free radical biology. Biochemistry (Moscow), 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. Journal of Neuroscience, 2011, 31, 15703-15715.	1.7	354

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37	Mitochondria-Targeted Small Molecule Therapeutics and Probes. Antioxidants and Redox Signaling, 2011, 15, 3021-3038.	2.5	344
38	Mitochondrial and nuclear DNA matching shapes metabolism and healthy ageing. Nature, 2016, 535, 561-565.	13.7	333
39	Oxidative stressâ€“induced mitochondrial dysfunction drives inflammation and airway smooth muscle remodeling in patients with chronic obstructive pulmonary disease. Journal of Allergy and Clinical Immunology, 2015, 136, 769-780.	1.5	332
40	Mitochondriaâ€targeted antioxidants protect Friedreich Ataxia fibroblasts from endogenous oxidative stress more effectively than untargeted antioxidants. FASEB Journal, 2003, 17, 1-10.	0.2	324
41	Selective targeting of bioactive compounds to mitochondria. Trends in Biotechnology, 1997, 15, 326-330.	4.9	322
42	Mitochondria-Targeted Antioxidant MitoQ ₁₀ Improves Endothelial Function and Attenuates Cardiac Hypertrophy. Hypertension, 2009, 54, 322-328.	1.3	319
43	Interactions of Mitochondria-targeted and Untargeted Ubiquinones with the Mitochondrial Respiratory Chain and Reactive Oxygen Species. Journal of Biological Chemistry, 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. Liver International, 2010, 30, 1019-1026.	1.9	313
45	Complex I assembly into supercomplexes determines differential mitochondrial ROS production in neurons and astrocytes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13063-13068.	3.3	300
46	Mitochondrial ROS Produced via Reverse Electron Transport Extend Animal Lifespan. Cell Metabolism, 2016, 23, 725-734.	7.2	296
47	Mitochondrial Thiols in Antioxidant Protection and Redox Signaling: Distinct Roles for Glutathionylation and Other Thiol Modifications. Antioxidants and Redox Signaling, 2012, 16, 476-495.	2.5	295
48	Superoxide Activates Uncoupling Proteins by Generating Carbon-centered Radicals and Initiating Lipid Peroxidation. Journal of Biological Chemistry, 2003, 278, 48534-48545.	1.6	283
49	Chronic Supplementation With a Mitochondrial Antioxidant (MitoQ) Improves Vascular Function in Healthy Older Adults. Hypertension, 2018, 71, 1056-1063.	1.3	280
50	Measurement of H2O2 within Living Drosophila during Aging Using a Ratiometric Mass Spectrometry Probe Targeted to the Mitochondrial Matrix. Cell Metabolism, 2011, 13, 340-350.	7.2	267
51	Inhibition of complex I of the electron transport chain causes O2â˙Â·-mediated mitochondrial outgrowth. American Journal of Physiology - Cell Physiology, 2005, 288, C1440-C1450.	2.1	260
52	Coupling Krebs cycle metabolites to signalling in immunity and cancer. Nature Metabolism, 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. British Journal of Anaesthesia, 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-1Î² (IL-1Î²) and Boosts Interleukin-10 (IL-10) in Lipopolysaccharide (LPS)-activated Macrophages. Journal of Biological Chemistry, 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 lipopolysaccharideâ€“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 Lightâ€“induced Death of Retinal Pigment Epithelial CellsÂ¶. 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. FEBS Journal, 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. Nucleic Acids Research, 2008, 36, 3926-3938.	6.5	195
75	Consequences of long-term oral administration of the mitochondria-targeted antioxidant MitoQ to wild-type mice. Free Radical Biology and Medicine, 2010, 48, 161-172.	1.3	193
76	MitoQ counteracts telomere shortening and elongates lifespan of fibroblasts under mild oxidative stress. Aging Cell, 2003, 2, 141-143.	3.0	192
77	Mitochondrially targeted compounds and their impact on cellular bioenergetics. Redox Biology, 2013, 1, 86-93.	3.9	192
78	A redox switch in angiotensinogen modulates angiotensin release. Nature, 2010, 468, 108-111.	13.7	191
79	Prevention of diabetic nephropathy in Ins2+/â^'AkitaJ mice by the mitochondria-targeted therapy MitoQ. Biochemical Journal, 2010, 432, 9-19.	1.7	189
80	Mitochondriaâ€targeted antioxidant (MitoQ) ameliorates ageâ€related arterial endothelial dysfunction in mice. Journal of Physiology, 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. Journal of Biological Chemistry, 2006, 281, 10056-10065.	1.6	183
82	Glutathionylation of Mitochondrial Proteins. Antioxidants and Redox Signaling, 2005, 7, 999-1010.	2.5	181
83	Ubiad1 Is an Antioxidant Enzyme that Regulates eNOS Activity by CoQ10 Synthesis. Cell, 2013, 152, 504-518.	13.5	176
84	Specific Modification of Mitochondrial Protein Thiols in Response to Oxidative Stress. Journal of Biological Chemistry, 2002, 277, 17048-17056.	1.6	173
85	Fine-tuning the hydrophobicity of a mitochondria-targeted antioxidant. FEBS Letters, 2004, 571, 9-16.	1.3	170
86	Cholangiocyte organoids can repair bile ducts after transplantation in the human liver. Science, 2021, 371, 839-846.	6.0	170
87	Rapid and extensive uptake and activation of hydrophobic triphenylphosphonium cations within cells. Biochemical Journal, 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. Journal of Biological Chemistry, 2008, 283, 24801-24815.	1.6	167
89	Mitochondrial Dysfunction Indirectly Elevates ROS Production by the Endoplasmic Reticulum. Cell Metabolism, 2013, 18, 145-146.	7.2	167
90	Peroxynitrite. General Pharmacology, 1998, 31, 179-186.	0.7	165

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91	Altered mitochondrial function in fibroblasts containing MELAS or MERRF mitochondrial DNA mutations. Biochemical Journal, 1996, 318, 401-407.	1.7	163
92	Release of apoptogenic proteins from the mitochondrial intermembrane space during the mitochondrial permeability transition. FEBS Letters, 1997, 418, 282-286.	1.3	161
93	Protection against renal ischemiaâ€“reperfusion injury in vivo by the mitochondria targeted antioxidant MitoQ. Redox Biology, 2015, 5, 163-168.	3.9	159
94	The mitochondria-targeted antioxidant MitoQ decreases features of the metabolic syndrome in ATM+/â€“/ApoEâ€“/â€“ mice. Free Radical Biology and Medicine, 2012, 52, 841-849.	1.3	154
95	KSR2 Mutations Are Associated with Obesity, Insulin Resistance, and Impaired Cellular Fuel Oxidation. Cell, 2013, 155, 765-777.	13.5	154
96	Quantitation and origin of the mitochondrial membrane potential in human cells lacking mitochondrial DNA. FEBS Journal, 1999, 262, 108-116.	0.2	153
97	Mitochondria-targeted antioxidant MitoQ ameliorates experimental mouse colitis by suppressing NLRP3 inflammasome-mediated inflammatory cytokines. BMC Medicine, 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. Nucleic Acids Research, 2001, 29, 1852-1863.	6.5	151
99	Mitochondrial superoxide and aging: uncoupling-protein activity and superoxide production. Biochemical Society Symposia, 2004, 71, 203-213.	2.7	151
100	Mitochondrial H2O2 generated from electron transport chain complex I stimulates muscle differentiation. Cell Research, 2011, 21, 817-834.	5.7	150
101	Sequence-specific modification of mitochondrial DNA using a chimeric zinc finger methylase. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19689-19694.	3.3	147
102	Mitochondrial ROS Production Protects the Intestine from Inflammation through Functional M2 Macrophage Polarization. Cell Reports, 2017, 19, 1202-1213.	2.9	146
103	Mitochondrial reactive oxygen species regulate the temporal activation of nuclear factor ÎºB to modulate tumour necrosis factor-induced apoptosis: evidence from mitochondria-targeted antioxidants. Biochemical Journal, 2005, 389, 83-89.	1.7	142
104	Bioenergetic consequences of accumulating the common 4977-bp mitochondrial DNA deletion. FEBS Journal, 1998, 257, 192-201.	0.2	141
105	Slip and leak in mitochondrial oxidative phosphorylation. Biochimica Et Biophysica Acta - Bioenergetics, 1989, 977, 123-141.	0.5	136
106	UCP1 deficiency causes brown fat respiratory chain depletion and sensitizes mitochondria to calcium overload-induced dysfunction. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7981-7986.	3.3	136
107	Antioxidants can inhibit basal autophagy and enhance neurodegeneration in models of polyglutamine disease. Human Molecular Genetics, 2010, 19, 3413-3429.	1.4	135
108	Targeting Mitochondria-Derived Reactive Oxygen Species to Reduce Epithelial Barrier Dysfunction and Colitis. American Journal of Pathology, 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. Journal of Biological Chemistry, 2007, 282, 22040-22051.	1.6	133
110	Amyloid Î²-Induced Impairments in Hippocampal Synaptic Plasticity Are Rescued by Decreasing Mitochondrial Superoxide. Journal of Neuroscience, 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. Biochemical Journal, 2010, 430, 49-59.	1.7	130
112	Peroxynitrite causes calcium efflux from mitochondria which is prevented by Cyclosporin A. FEBS Letters, 1994, 345, 237-240.	1.3	129
113	Î²-Amyloid Mediated Nitration of Manganese Superoxide Dismutase. American Journal of Pathology, 2006, 168, 1608-1618.	1.9	129
114	Understanding and preventing mitochondrial oxidative damage. Biochemical Society Transactions, 2016, 44, 1219-1226.	1.6	129
115	Malonylation of GAPDH is an inflammatory signal in macrophages. Nature Communications, 2019, 10, 338.	5.8	129
116	How mitochondrial damage affects cell function. Journal of Biomedical Science, 2002, 9, 475-487.	2.6	128
117	Reactive oxygen species induce virus-independent MAVS oligomerization in systemic lupus erythematosus. Science Signaling, 2016, 9, ra115.	1.6	127
118	Neuroprotective effects of the mitochondria-targeted antioxidant MitoQ in a model of inherited amyotrophic lateral sclerosis. Free Radical Biology and Medicine, 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. FEBS Journal, 1995, 234, 231-239.	0.2	125
120	MitoQ administration prevents endotoxin-induced cardiac dysfunction. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 297, R1095-R1102.	0.9	125
121	The effects of exogenous antioxidants on lifespan and oxidative stress resistance in Drosophila melanogaster. Mechanisms of Ageing and Development, 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. Circulation, 2017, 136, 2337-2355.	1.6	124
123	Mitochondrial oxidative stress and the metabolic syndrome. Trends in Endocrinology and Metabolism, 2012, 23, 429-434.	3.1	122
124	Mitochondrial uncouplers with an extraordinary dynamic range. Biochemical Journal, 2007, 407, 129-140.	1.7	120
125	Antioxidants as therapies: can we improve on nature?. Free Radical Biology and Medicine, 2014, 66, 20-23.	1.3	120
126	Mitochondrial Respiration Is Reduced in Atherosclerosis, Promoting Necrotic Core Formation and Reducing Relative Fibrous Cap Thickness. Arteriosclerosis, Thrombosis, and Vascular Biology, 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. Cell Death and Differentiation, 2018, 25, 542-572.	5.0	120
128	Prevention of Mitochondrial Oxidative Damage Using Targeted Antioxidants. Annals of the New York Academy of Sciences, 2002, 959, 263-274.	1.8	119
129	Antioxidant properties of MitoTEMPOL and its hydroxylamine. Free Radical Research, 2009, 43, 4-12.	1.5	119
130	Oncogenic KRAS Induces NIX-Mediated Mitophagy to Promote Pancreatic Cancer. Cancer Discovery, 2019, 9, 1268-1287.	7.7	119
131	Mitochondrial targeting of quinones: Therapeutic implications. Mitochondrion, 2007, 7, S94-S102.	1.6	118
132	Synthesis and Characterization of a Triphenylphosphonium-conjugated Peroxidase Mimetic. Journal of Biological Chemistry, 2005, 280, 24113-24126.	1.6	117
133	Antioxidant and pro-oxidant properties of pyrroloquinoline quinone (PQQ): implications for its function in biological systems. Biochemical Pharmacology, 2003, 65, 67-74.	2.0	116
134	Selective Uncoupling of Individual Mitochondria within a Cell Using a Mitochondria-Targeted Photoactivated Protonophore. Journal of the American Chemical Society, 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. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 174-182.	1.8	115
136	Neurological deficits caused by tissue hypoxia in neuroinflammatory disease. Annals of Neurology, 2013, 74, 815-825.	2.8	114
137	Mitochondria-targeted antioxidants as therapies. Discovery Medicine, 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. Free Radical Biology and Medicine, 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-1Î±. FEBS Letters, 2005, 579, 2669-2674.	1.3	111
140	Selective superoxide generation within mitochondria by the targeted redox cycler MitoParaquat. Free Radical Biology and Medicine, 2015, 89, 883-894.	1.3	111
141	Mitochondrial oxidative stress causes insulin resistance without disrupting oxidative phosphorylation. Journal of Biological Chemistry, 2018, 293, 7315-7328.	1.6	110
142	The â€˜mitoflashâ€™ probe cpYFP does not respond to superoxide. Nature, 2014, 514, E12-E14.	13.7	109
143	Using the mitochondria-targeted ratiometric mass spectrometry probe MitoB to measure H2O2 in living Drosophila. Nature Protocols, 2012, 7, 946-958.	5.5	108
144	Succinate metabolism: a new therapeutic target for myocardial reperfusion injury. Cardiovascular Research, 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. Free Radical Biology and Medicine, 2009, 46, 105-109.	1.3	106
146	Mitochondrial ROS-derived PTEN oxidation activates PI3K pathway for mTOR-induced myogenic autophagy. Cell Death and Differentiation, 2018, 25, 1921-1937.	5.0	106
147	Accumulation of lipophilic dications by mitochondria and cells. Biochemical Journal, 2006, 400, 199-208.	1.7	105
148	Mitochondrial Function Is Required for Hydrogen Peroxide-induced Growth Factor Receptor Transactivation and Downstream Signaling. Journal of Biological Chemistry, 2004, 279, 35079-35086.	1.6	103
149	Succinate accumulation drives ischaemia-reperfusion injury during organ transplantation. Nature Metabolism, 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. Biochimica Et Biophysica Acta - General Subjects, 2010, 1800, 1009-1017.	1.1	101
151	Mitochondria-targeted Antioxidants Protect Pancreatic Î²-cells against Oxidative Stress and Improve Insulin Secretion in Glucotoxicity and Glucolipotoxicity. Cellular Physiology and Biochemistry, 2011, 28, 873-886.	1.1	101
152	MitoQ improves mitochondrial dysfunction in heart failure induced by pressure overload. Free Radical Biology and Medicine, 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. Molecular and Cellular Biology, 2000, 20, 1187-1193.	1.1	99
154	Mitochondria-targeted ubiquinone (MitoQ) decreases ethanol-dependent micro and macro hepatosteatosis. Hepatology, 2011, 54, 153-163.	3.6	98
155	Synthesis and Characterization of Thiobutyltriphenylphosphonium Bromide, a Novel Thiol Reagent Targeted to the Mitochondrial Matrix. Archives of Biochemistry and Biophysics, 1995, 322, 60-68.	1.4	97
156	Mitochondriaâ€Targeted Antioxidants in the Treatment of Disease. Annals of the New York Academy of Sciences, 2008, 1147, 105-111.	1.8	96
157	In vivo levels of mitochondrial hydrogen peroxide increase with age in mt<scp>DNA</scp> mutator mice. Aging Cell, 2014, 13, 765-768.	3.0	94
158	A new hypertrophic mechanism of serotonin in cardiac myocytes: receptorâ€independent ROS generation. FASEB Journal, 2005, 19, 1-15.	0.2	91
159	Proteomic approaches to the characterization of protein thiol modification. Current Opinion in Chemical Biology, 2011, 15, 120-128.	2.8	90
160	Defects in Mitochondrial Clearance Predispose Human Monocytes to Interleukin-1Î² Hypersecretion. Journal of Biological Chemistry, 2014, 289, 5000-5012.	1.6	90
161	Non-enzymatic N -acetylation of Lysine Residues by AcetylCoA Often Occurs via a Proximal S -acetylated Thiol Intermediate Sensitive to Glyoxalase II. Cell Reports, 2017, 18, 2105-2112.	2.9	90
162	Restoring mitochondrial <scp>DNA</scp> copy number preserves mitochondrial function and delays vascular aging in mice. Aging Cell, 2018, 17, e12773.	3.0	90

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163	Macrophage metabolic reprogramming presents a therapeutic target in lupus nephritis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15160-15171.	3.3	90
164	The LRRK2 inhibitor GSK2578215A induces protective autophagy in SH-SY5Y cells: involvement of Drp-1-mediated mitochondrial fission and mitochondrial-derived ROS signaling. Cell Death and Disease, 2014, 5, e1368-e1368.	2.7	88
165	Nrf2 controls iron homoeostasis in haemochromatosis and thalassaemia via Bmp6 and hepcidin. Nature Metabolism, 2019, 1, 519-531.	5.1	88
166	Decreased ATP synthesis is phenotypically expressed during increased energy demand in fibroblasts containing mitochondrial tRNA mutations. FEBS Journal, 1999, 259, 462-469.	0.2	86
167	Activation of Mitogen-Activated Protein Kinases by Lysophosphatidylcholine-Induced Mitochondrial Reactive Oxygen Species Generation in Endothelial Cells. American Journal of Pathology, 2006, 168, 1737-1748.	1.9	86
168	Mitochondria-targeted antioxidant therapy with MitoQ ameliorates aortic stiffening in old mice. Journal of Applied Physiology, 2018, 124, 1194-1202.	1.2	86
169	Alterations to glutathione and nicotinamide nucleotides during the mitochondrial permeability transition induced by peroxynitrite. Biochemical Pharmacology, 1996, 52, 1047-1055.	2.0	83
170	Mitochondrial ROS Fire Up T Cell Activation. Immunity, 2013, 38, 201-202.	6.6	83
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