Michael Murphy

List of Publications by Year
in descending order

435 papers	57,426 citations	767 119 h-index	1385 222 g-index
450 all docs	450 docs citations	450 times ranked	55184 citing authors

#	Article	IF	Citations
1	Ester Prodrugs of Malonate with Enhanced Intracellular Delivery Protect Against Cardiac Ischemia-Reperfusion Injury In Vivo. Cardiovascular Drugs and Therapy, 2022, 36, 1-13.	2.6	28
2	Focally administered succinate improves cerebral metabolism in traumatic brain injury patients with mitochondrial dysfunction. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 39-55.	4.3	17
3	ND3 Cys39 in complex I is exposed during mitochondrial respiration. Cell Chemical Biology, 2022, 29, 636-649.e14.	5.2	24
4	Cysteine 253 of UCP1 regulates energy expenditure and sex-dependent adipose tissue inflammation. Cell Metabolism, 2022, 34, 140-157.e8.	16.2	27
5	Nrf2 activation reprograms macrophage intermediary metabolism and suppresses the type I interferon response. IScience, 2022, 25, 103827.	4.1	51
6	Defining roles of specific reactive oxygen species (ROS) in cell biology and physiology. Nature Reviews Molecular Cell Biology, 2022, 23, 499-515.	37.0	469
7	MitoQ Inhibits Human Breast Cancer Cell Migration, Invasion and Clonogenicity. Cancers, 2022, 14, 1516.	3.7	15
8	MitoQ Prevents Human Breast Cancer Recurrence and Lung Metastasis in Mice. Cancers, 2022, 14, 1488.	3.7	11
9	Silver Clusters of Five Atoms as Highly Selective Antitumoral Agents Through Irreversible Oxidation of Thiols. Advanced Functional Materials, 2022, 32, .	14.9	7
10	Why succinate? Physiological regulation by a mitochondrial coenzyme Q sentinel. Nature Chemical Biology, 2022, 18, 461-469.	8.0	38
11	Tumor necrosis factor induces pathogenic mitochondrial ROS in tuberculosis through reverse electron transport. Science, 2022, 376, .	12.6	52
12	Mitochondrial metabolism and bioenergetic function in an anoxic isolated adult mouse cardiomyocyte model of in vivo cardiac ischemia-reperfusion injury. Redox Biology, 2022, 54, 102368.	9.0	9
13	Guidelines for measuring reactive oxygen species and oxidative damage in cells and in vivo. Nature Metabolism, 2022, 4, 651-662.	11.9	356
14	Uncovering the source of mitochondrial superoxide in pro-inflammatory macrophages: Insights from immunometabolism. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2022, 1868, 166481.	3.8	3
15	Mechanism of succinate efflux upon reperfusion of the ischaemic heart. Cardiovascular Research, 2021, 117, 1188-1201.	3.8	59
16	Mitochondria as Therapeutic Targets in Transplantation. Trends in Molecular Medicine, 2021, 27, 185-198.	6.7	45
17	Active RNA interference in mitochondria. Cell Research, 2021, 31, 219-228.	12.0	32
18	Nanoparticleâ€encapsulated antioxidant improves placental mitochondrial function in a sexually dimorphic manner in a rat model of prenatal hypoxia. FASEB Journal, 2021, 35, e21338.	0.5	17

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19	Structural basis for a complex I mutation that blocks pathological ROS production. Nature Communications, 2021, 12, 707.	12.8	71
20	Tetra-arylborate lipophilic anions as targeting groups. Chemical Communications, 2021, 57, 3147-3150.	4.1	1
21	Nrf2 is activated by disruption of mitochondrial thiol homeostasis but not by enhanced mitochondrial superoxide production. Journal of Biological Chemistry, 2021, 296, 100169.	3.4	25
22	Photoactivated release of membrane impermeant sulfonates inside cells. Chemical Communications, 2021, 57, 3917-3920.	4.1	1
23	Cholangiocyte organoids can repair bile ducts after transplantation in the human liver. Science, 2021, 371, 839-846.	12.6	170
24	Energy Metabolites as Biomarkers in Ischemic and Dilated Cardiomyopathy. International Journal of Molecular Sciences, 2021, 22, 1999.	4.1	20
25	Ex vivo normothermic perfusion of isolated segmental porcine bowel: a novel functional model of the small intestine. BJS Open, 2021, 5, .	1.7	10
26	Mitochondria antioxidant protection against cardiovascular dysfunction programmed by earlyâ€onset gestational hypoxia. FASEB Journal, 2021, 35, e21446.	0.5	11
27	Targeting Methylglyoxal in Diabetic Kidney Disease Using the Mitochondria-Targeted Compound MitoGamide. Nutrients, 2021, 13, 1457.	4.1	3
28	Abrogating mitochondrial ROS in neurons or astrocytes reveals cell-specific impact on mouse behaviour. Redox Biology, 2021, 41, 101917.	9.0	8
29	Generation of mitochondrial reactive oxygen species is controlled by ATPase inhibitory factor 1 and regulates cognition. PLoS Biology, 2021, 19, e3001252.	5.6	22
30	Mitochondria-targeted antioxidant MitoQ ameliorates ischaemiaâ€“reperfusion injury in kidney transplantation models. British Journal of Surgery, 2021, 108, 1072-1081.	0.3	15
31	Accelerating cryoprotectant diffusion kinetics improves cryopreservation of pancreatic islets. Scientific Reports, 2021, 11, 10418.	3.3	8
32	Effective therapeutic strategies in a preclinical mouse model of Charcotâ€“Marieâ€“Tooth disease. Human Molecular Genetics, 2021, 30, 2441-2455.	2.9	5
33	Cardioprotective mechanisms of mitochondria-targeted S-nitrosating agent and adenosine triphosphate-sensitive potassium channel opener are mutually exclusive. JTCVS Open, 2021, 8, 338-354.	0.5	2
34	Insights on Targeting Small Molecules to the Mitochondrial Matrix and the Preparation of MitoB and MitoP as Exomarkers of Mitochondrial Hydrogen Peroxide. Methods in Molecular Biology, 2021, 2275, 87-117.	0.9	2
35	Mitochondria-targeted therapeutics, MitoQ and BGP-15, reverse aging-associated meiotic spindle defects in mouse and human oocytes. Human Reproduction, 2021, 36, 771-784.	0.9	54
36	Noninvasive Biomarkers for Cardiovascular Dysfunction Programmed in Male Offspring of Adverse Pregnancy. Hypertension, 2021, 78, 1818-1828.	2.7	2

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37	Disruption of the TCA cycle reveals an ATF4-dependent integration of redox and amino acid metabolism. ELife, 2021, 10, .	6.0	44
38	Phosphorus spectroscopy in acute TBI demonstrates metabolic changes that relate to outcome in the presence of normal structural MRI. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 67-84.	4.3	18
39	Mitochondrial ROS production during ischemia-reperfusion injury. , 2020, , 513-538.		4
40	The interplay between redox signalling and proteostasis in neurodegeneration: In vivo effects of a mitochondria-targeted antioxidant in Huntington's disease mice. Free Radical Biology and Medicine, 2020, 146, 372-382.	2.9	36
41	A sensitive mass spectrometric assay for mitochondrial CoQ pool redox state in vivo. Free Radical Biology and Medicine, 2020, 147, 37-47.	2.9	32
42	Confirmation of the Cardioprotective Effect of MitoGamide in the Diabetic Heart. Cardiovascular Drugs and Therapy, 2020, 34, 823-834.	2.6	9
43	Targeting succinate dehydrogenase with malonate ester prodrugs decreases renal ischemia reperfusion injury. Redox Biology, 2020, 36, 101640.	9.0	42
44	Early detection of doxorubicin-induced cardiotoxicity in rats by its cardiac metabolic signature assessed with hyperpolarized MRI. Communications Biology, 2020, 3, 692.	4.4	25
45	Nucleotide-binding sites can enhance N-acylation of nearby protein lysine residues. Scientific Reports, 2020, 10, 20254.	3.3	8
46	Selective Delivery of Dicarboxylates to Mitochondria by Conjugation to a Lipophilic Cation via a Cleavable Linker. Molecular Pharmaceutics, 2020, 17, 3526-3540.	4.6	14
47	Brain energy rescue: an emerging therapeutic concept for neurodegenerative disorders of ageing. Nature Reviews Drug Discovery, 2020, 19, 609-633.	46.4	441
48	Isolating adverse effects of glucocorticoids on the embryonic cardiovascular system. FASEB Journal, 2020, 34, 9664-9677.	0.5	8
49	mtDNA mutations help support cancer cells. Nature Cancer, 2020, 1, 941-942.	13.2	6
50	Enhancing the Mitochondrial Uptake of Phosphonium Cations by Carboxylic Acid Incorporation. Frontiers in Chemistry, 2020, 8, 783.	3.6	4
51	Translatable mitochondria-targeted protection against programmed cardiovascular dysfunction. Science Advances, 2020, 6, eabb1929.	10.3	41
52	Mitochondrial ROS prime the hyperglycemic shift from apoptosis to necroptosis. Cell Death Discovery, 2020, 6, 132.	4.7	29
53	Rapamycinâ€mediated mouse lifespan extension: Lateâ€life dosage regimes with sexâ€specific effects. Aging Cell, 2020, 19, e13269.	6.7	49
54	Facultative protein selenation regulates redox sensitivity, adipose tissue thermogenesis, and obesity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10789-10796.	7.1	30

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55	Premature synaptic mitochondrial dysfunction in the hippocampus during aging contributes to memory loss. Redox Biology, 2020, 34, 101558.	9.0	62
56	How should we talk about metabolism?. Nature Immunology, 2020, 21, 713-715.	14.5	13
57	Stable mitochondrial CICIII2 supercomplex interactions in reptiles compared to homeothermic vertebrates. Journal of Experimental Biology, 2020, 223, .	1.7	17
58	Genes and lipids that impact uptake and assimilation of exogenous coenzyme Q in Saccharomyces cerevisiae. Free Radical Biology and Medicine, 2020, 154, 105-118.	2.9	12
59	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.	7.1	90
60	Reply to: In vivo quantification of mitochondrial membrane potential. Nature, 2020, 583, E19-E20.	27.8	2
61	Convergent evolution of conserved mitochondrial pathways underlies repeated adaptation to extreme environments. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16424-16430.	7.1	44
62	Mitochondria-targeted paraquat and metformin mediate ROS production to induce multiple pathways of retrograde signaling: A dose-dependent phenomenon. Redox Biology, 2020, 36, 101606.	9.0	59
63	The peroxisomal fatty acid transporter ABCD1/PMP-4 is required in the C. elegans hypodermis for axonal maintenance: A worm model for adrenoleukodystrophy. Free Radical Biology and Medicine, 2020, 152, 797-809.	2.9	19
64	Targeting mitochondrial fitness as a strategy for healthy vascular aging. Clinical Science, 2020, 134, 1491-1519.	4.3	31
65	Respiratory chain signalling is essential for adaptive remodelling following cardiac ischaemia. Journal of Cellular and Molecular Medicine, 2020, 24, 3534-3548.	3.6	15
66	Targeting mitochondrial oxidative stress with MitoQ reduces NET formation and kidney disease in lupus-prone MRL-lprmice. Lupus Science and Medicine, 2020, 7, e000387.	2.7	54
67	Fine-tuning autophagy maximises lifespan and is associated with changes in mitochondrial gene expression in Drosophila. PLoS Genetics, 2020, 16, e1009083.	3.5	43
68	Mitochondrial mechanisms and therapeutics in ischaemia reperfusion injury. Pediatric Nephrology, 2019, 34, 1167-1174.	1.7	56
69	Rerouting metabolism to activate macrophages. Nature Immunology, 2019, 20, 1097-1099.	14.5	13
70	Oncogenic KRAS Induces NIX-Mediated Mitophagy to Promote Pancreatic Cancer. Cancer Discovery, 2019, 9, 1268-1287.	9.4	119
71	The Mitochondria-Targeted Methylglyoxal Sequestering Compound, MitoGamide, Is Cardioprotective in the Diabetic Heart. Cardiovascular Drugs and Therapy, 2019, 33, 669-674.	2.6	15
72	Malonylation of GAPDH is an inflammatory signal in macrophages. Nature Communications, 2019, 10, 338.	12.8	129

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73	Selective Disruption of Mitochondrial Thiol Redox State in Cells and InÂVivo. Cell Chemical Biology, 2019, 26, 449-461.e8.	5.2	41
74	Immunological Synapse Formation Induces Mitochondrial Clustering and Mitophagy in Dendritic Cells. Journal of Immunology, 2019, 202, 1715-1723.	0.8	9
75	The damage-associated molecular pattern HMGB1 is released early after clinical hepatic ischemia/reperfusion. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 1192-1200.	3.8	21
76	Nrf2 controls iron homoeostasis in haemochromatosis and thalassaemia via Bmp6 and hepcidin. Nature Metabolism, 2019, 1, 519-531.	11.9	88
77	Protection against cardiac ischemia-reperfusion injury by hypothermia and by inhibition of succinate accumulation and oxidation is additive. Basic Research in Cardiology, 2019, 114, 18.	5.9	55
78	Selective mitochondrial superoxide generation in vivo is cardioprotective through hormesis. Free Radical Biology and Medicine, 2019, 134, 678-687.	2.9	36
79	Metabolic adaptations during extreme anoxia in the turtle heart and their implications for ischemia-reperfusion injury. Scientific Reports, 2019, 9, 2850.	3.3	52
80	Species and tissue specific differences in ROS metabolism to hypoxia- and hyperoxia-recovery exposure in marine sculpins. Journal of Experimental Biology, 2019, 222, .	1.7	9
81	Detection of changes in mitochondrial hydrogen sulfide i n vivo in the fish model Poecilia mexicana (Poeciliidae). Biology Open, 2019, 8, .	1.2	5
82	Succinate accumulation drives ischaemia-reperfusion injury during organ transplantation. Nature Metabolism, 2019, 1, 966-974.	11.9	103
83	APOPT 1/ COA 8 assists COX assembly and is oppositely regulated by UPS and ROS. EMBO Molecular Medicine, 2019, 11, .	6.9	19
84	Therapeutic potential of the mitochondria-targeted antioxidant MitoQ in mitochondrial-ROS induced sensorineural hearing loss caused by Idh2 deficiency. Redox Biology, 2019, 20, 544-555.	9.0	43
85	Coupling Krebs cycle metabolites to signalling in immunity and cancer. Nature Metabolism, 2019, 1, 16-33.	11.9	260
86	Mitochondrial superoxide generation induces a parkinsonian phenotype in zebrafish and huntingtin aggregation in human cells. Free Radical Biology and Medicine, 2019, 130, 318-327.	2.9	32
87	The Mitochondria-Targeted Antioxidant MitoQ Modulates Mitochondrial Function and Endoplasmic Reticulum Stress in Pancreatic Î² Cells Exposed to Hyperglycaemia. Cellular Physiology and Biochemistry, 2019, 52, 186-197.	1.6	35
88	Monoamine oxidase-dependent endoplasmic reticulum-mitochondria dysfunction and mast cell degranulation lead to adverse cardiac remodeling in diabetes. Cell Death and Differentiation, 2018, 25, 1671-1685.	11.2	54
89	Macrophage-Derived Extracellular Succinate Licenses Neural Stem Cells to Suppress Chronic Neuroinflammation. Cell Stem Cell, 2018, 22, 355-368.e13.	11.1	216
90	Suppression of reactive oxygen species generation in heart mitochondria from anoxic turtles: the role of complex I S-nitrosation. Journal of Experimental Biology, 2018, 221, .	1.7	39

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91	Signedâ€For Delivery in the Mitochondrial Matrix: Confirming Uptake into Mitochondria. Small Methods, 2018, 2, 1700297.	8.6	5
92	A Comparison of Oxidative Lactate Metabolism in Traumatically Injured Brain and Control Brain. Journal of Neurotrauma, 2018, 35, 2025-2035.	3.4	25
93	Chronic Supplementation With a Mitochondrial Antioxidant (MitoQ) Improves Vascular Function in Healthy Older Adults. Hypertension, 2018, 71, 1056-1063.	2.7	280
94	Metabolomic Profiling in Acute STâ€Segmentâ€“Elevation Myocardial Infarction Identifies Succinate as an Early Marker of Human Ischemiaâ€“Reperfusion Injury. Journal of the American Heart Association, 2018, 7, .	3.7	66
95	MitoQ improves mitochondrial dysfunction in heart failure induced by pressure overload. Free Radical Biology and Medicine, 2018, 117, 18-29.	2.9	100
96	Impact of the mitochondria-targeted antioxidant MitoQ on hypoxia-induced pulmonary hypertension. European Respiratory Journal, 2018, 51, 1701024.	6.7	64
97	Mitochondrial protein S-nitrosation protects against ischemia reperfusion-induced denervation at neuromuscular junction in skeletal muscle. Free Radical Biology and Medicine, 2018, 117, 180-190.	2.9	21
98	Glycolysis promotes caspase-3 activation in lipid rafts in T cells. Cell Death and Disease, 2018, 9, 62.	6.3	15
99	Mitochondrial oxidative stress causes insulin resistance without disrupting oxidative phosphorylation. Journal of Biological Chemistry, 2018, 293, 7315-7328.	3.4	110
100	Mitochondrial ROS cause motor deficits induced by synaptic inactivity: Implications for synapse pruning. Redox Biology, 2018, 16, 344-351.	9.0	43
101	Itaconate is an anti-inflammatory metabolite that activates Nrf2 via alkylation of KEAP1. Nature, 2018, 556, 113-117.	27.8	1,115
102	Pro-fluorescent mitochondria-targeted real-time responsive redox probes synthesised from carboxy isoindoline nitroxides: Sensitive probes of mitochondrial redox status in cells. Free Radical Biology and Medicine, 2018, 128, 97-110.	2.9	14
103	Ageâ€related endothelial dysfunction in human skeletal muscle feed arteries: the role of free radicals derived from mitochondria in the vasculature. Acta Physiologica, 2018, 222, e12893.	3.8	52
104	Mitochondriaâ€targeted antioxidant Mito<scp>Q</scp> reduced renal damage caused by ischemiaâ€reperfusion injury in rodent kidneys: Longitudinal observations of <scp>T</scp>₂â€weighted imaging and dynamic contrastâ€enhanced <scp>MRI</scp>. Magnetic Resonance in Medicine, 2018, 79, 1559-1567.	3.0	30
105	Mitochondria-targeted antioxidant therapy with MitoQ ameliorates aortic stiffening in old mice. Journal of Applied Physiology, 2018, 124, 1194-1202.	2.5	86
106	Guidelines on experimental methods to assess mitochondrial dysfunction in cellular models of neurodegenerative diseases. Cell Death and Differentiation, 2018, 25, 542-572.	11.2	120
107	Placental Adaptation to Early-Onset Hypoxic Pregnancy and Mitochondria-Targeted Antioxidant Therapy in a Rodent Model. American Journal of Pathology, 2018, 188, 2704-2716.	3.8	65
108	Mitochondria as a therapeutic target for common pathologies. Nature Reviews Drug Discovery, 2018, 17, 865-886.	46.4	508

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109	Metabolic control of ferroptosis in cancer. Nature Cell Biology, 2018, 20, 1104-1105.	10.3	27
110	Mitochondria-derived ROS activate AMP-activated protein kinase (AMPK) indirectly. Journal of Biological Chemistry, 2018, 293, 17208-17217.	3.4	207
111	Control of mitochondrial superoxide production by reverse electron transport at complex I. Journal of Biological Chemistry, 2018, 293, 9869-9879.	3.4	204
112	MitoQ protects dopaminergic neurons in a 6-OHDA induced PD model by enhancing Mfn2-dependent mitochondrial fusion via activation of PGC-1Î±. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 2859-2870.	3.8	77
113	Attenuation of oxidative damage by targeting mitochondrial complex I in neonatal hypoxic-ischemic brain injury. Free Radical Biology and Medicine, 2018, 124, 517-524.	2.9	45
114	Newly made mitochondrial DNA drives inflammation. Nature, 2018, 560, 176-177.	27.8	17
115	Mitochondrial ROS-derived PTEN oxidation activates PI3K pathway for mTOR-induced myogenic autophagy. Cell Death and Differentiation, 2018, 25, 1921-1937.	11.2	106
116	The effect of succinate on brain NADH/NAD+ redox state and high energy phosphate metabolism in acute traumatic brain injury. Scientific Reports, 2018, 8, 11140.	3.3	43
117	Accumulation of succinate controls activation of adipose tissue thermogenesis. Nature, 2018, 560, 102-106.	27.8	380
118	Restoring mitochondrial <scp>DNA</scp> copy number preserves mitochondrial function and delays vascular aging in mice. Aging Cell, 2018, 17, e12773.	6.7	90
119	The Causes and Consequences of Nonenzymatic Protein Acylation. Trends in Biochemical Sciences, 2018, 43, 921-932.	7.5	31
120	Proximal Cysteines that Enhance Lysine N-Acetylation of Cytosolic Proteins in Mice Are Less Conserved in Longer-Living Species. Cell Reports, 2018, 24, 1445-1455.	6.4	27
121	Altered cellular redox homeostasis and redox responses under standard oxygen cell culture conditions versus physioxia. Free Radical Biology and Medicine, 2018, 126, 322-333.	2.9	22
122	Ischemic preconditioning protects against cardiac ischemia reperfusion injury without affecting succinate accumulation or oxidation. Journal of Molecular and Cellular Cardiology, 2018, 123, 88-91.	1.9	38
123	Krebs Cycle Reimagined: The Emerging Roles of Succinate and Itaconate as Signal Transducers. Cell, 2018, 174, 780-784.	28.9	237
124	Myocardial NADPH oxidase-4 regulates the physiological response to acute exercise. ELife, 2018, 7, .	6.0	44
125	Mitochondrialâ€Targeted Antioxidant (MitoQ) Improves Vascular Function in Healthy Late Middleâ€Aged and Older Adults. FASEB Journal, 2018, 32, 845.8.	0.5	1
126	Using chemical biology to assess and modulate mitochondria: progress and challenges. Interface Focus, 2017, 7, 20160151.	3.0	11

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127	Chemical biology of mitochondria. Interface Focus, 2017, 7, 20170003.	3.0	0
128	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.	6.4	90
129	Mitochondrial ROS Production Protects the Intestine from Inflammation through Functional M2 Macrophage Polarization. Cell Reports, 2017, 19, 1202-1213.	6.4	146
130	ClickIn: a flexible protocol for quantifying mitochondrial uptake of nucleobase derivatives. Interface Focus, 2017, 7, 20160117.	3.0	4
131	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.	7.1	136
132	Mitochondriaâ€targeted antioxidant mitoquinone deactivates human and rat hepatic stellate cells and reduces portal hypertension in cirrhotic rats. Liver International, 2017, 37, 1002-1012.	3.9	42
133	Protein CoAlation: a redox-regulated protein modification by coenzyme A in mammalian cells. Biochemical Journal, 2017, 474, 2489-2508.	3.7	65
134	Assessment of H2S in vivo using the newly developed mitochondria-targeted mass spectrometry probe MitoA. Journal of Biological Chemistry, 2017, 292, 7761-7773.	3.4	34
135	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.	2.4	120
136	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
137	MitoNeoD: A Mitochondria-Targeted Superoxide Probe. Cell Chemical Biology, 2017, 24, 1285-1298.e12.	5.2	69
138	Treating the placenta to prevent adverse effects of gestational hypoxia on fetal brain development. Scientific Reports, 2017, 7, 9079.	3.3	76
139	Identification and quantification of protein S-nitrosation by nitrite in the mouse heart during ischemia. Journal of Biological Chemistry, 2017, 292, 14486-14495.	3.4	34
140	Click-PEGylation â€“ A mobility shift approach to assess the redox state of cysteines in candidate proteins. Free Radical Biology and Medicine, 2017, 108, 374-382.	2.9	28
141	Treatment with antioxidants ameliorates oxidative damage in a mouse model of propionic acidemia. Molecular Genetics and Metabolism, 2017, 122, 43-50.	1.1	29
142	Targeted mitochondrial therapy using MitoQ shows equivalent renoprotection to angiotensin converting enzyme inhibition but no combined synergy in diabetes. Scientific Reports, 2017, 7, 15190.	3.3	34
143	208â€…Cardioprotection by the mitochondria-targeted superoxide generator mitoparaquat in a murine model of acute myocardial ischaemia reperfusion injury. Heart, 2017, 103, A138.3-A139.	2.9	0
144	Focally perfused succinate potentiates brain metabolism in head injury patients. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2626-2638.	4.3	54

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145	Mitochondrial and nuclear DNA matching shapes metabolism and healthy ageing. Nature, 2016, 535, 561-565.	27.8	333
146	Reactive oxygen species induce virus-independent MAVS oligomerization in systemic lupus erythematosus. Science Signaling, 2016, 9, ra115.	3.6	127
147	A mitochondrial-targeted ubiquinone modulates muscle lipid profile and improves mitochondrial respiration in obesogenic diet-fed rats. British Journal of Nutrition, 2016, 115, 1155-1166.	2.3	38
148	Succinate metabolism: a new therapeutic target for myocardial reperfusion injury. Cardiovascular Research, 2016, 111, 134-141.	3.8	107
149	Moving Forwards by Blocking Back-Flow. Circulation Research, 2016, 118, 898-906.	4.5	83
150	Mitochondrial ROS Produced via Reverse Electron Transport Extend Animal Lifespan. Cell Metabolism, 2016, 23, 725-734.	16.2	296
151	Ubiquinol and plastoquinol triphenylphosphonium conjugates can carry electrons through phospholipid membranes. Bioelectrochemistry, 2016, 111, 23-30.	4.6	14
152	In vivo evidence of mitochondrial dysfunction and altered redox homeostasis in a genetic mouse model of propionic acidemia: Implications for the pathophysiology of this disorder. Free Radical Biology and Medicine, 2016, 96, 1-12.	2.9	42
153	Mitochondrial Diseases: Shortcuts to Therapies and Therapeutic Shortcuts. Molecular Cell, 2016, 64, 5-6.	9.7	2
154	Introduction to Special Issue on Mitochondrial Redox Signaling in Health and Disease. Free Radical Biology and Medicine, 2016, 100, 1-4.	2.9	9
155	Mitochondrial impairments contribute to Spinocerebellar ataxia type 1 progression and can be ameliorated by the mitochondria-targeted antioxidant MitoQ. Free Radical Biology and Medicine, 2016, 97, 427-440.	2.9	52
156	Assessing the Delivery of Molecules to the Mitochondrial Matrix Using Click Chemistry. ChemBioChem, 2016, 17, 1312-1316.	2.6	17
157	Succinate Dehydrogenase Supports Metabolic Repurposing of Mitochondria to Drive Inflammatory Macrophages. Cell, 2016, 167, 457-470.e13.	28.9	1,396
158	The mitochondria-targeted antioxidant MitoQ modulates oxidative stress, inflammation and leukocyte-endothelium interactions in leukocytes isolated from type 2 diabetic patients. Redox Biology, 2016, 10, 200-205.	9.0	82
159	Understanding and preventing mitochondrial oxidative damage. Biochemical Society Transactions, 2016, 44, 1219-1226.	3.4	129
160	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.	7.1	300
161	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.	6.4	199
162	The Activity of Menkes Disease Protein ATP7A Is Essential for Redox Balance in Mitochondria. Journal of Biological Chemistry, 2016, 291, 16644-16658.	3.4	54

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163	A Unifying Mechanism for Mitochondrial Superoxide Production during Ischemia-Reperfusion Injury. Cell Metabolism, 2016, 23, 254-263.	16.2	527
164	Assessing the Mitochondrial Membrane Potential in Cells and InÂVivo using Targeted Click Chemistry and Mass Spectrometry. Cell Metabolism, 2016, 23, 379-385.	16.2	78
165	Mitochondrial thiol modification by a targeted electrophile inhibits metabolism in breast adenocarcinoma cells by inhibiting enzyme activity and protein levels. Redox Biology, 2016, 8, 136-148.	9.0	15
166	Selective Mitochondrial Targeting Exerts Anxiolytic Effects In Vivo. Neuropsychopharmacology, 2016, 41, 1751-1758.	5.4	35
167	The mitochondria-targeted antioxidant MitoQ attenuates liver fibrosis in mice. International Journal of Physiology, Pathophysiology and Pharmacology, 2016, 8, 14-27.	0.8	45
168	Selective superoxide generation within mitochondria by the targeted redox cycler MitoParaquat. Free Radical Biology and Medicine, 2015, 89, 883-894.	2.9	111
169	A mitochondria-targeted derivative of ascorbate: MitoC. Free Radical Biology and Medicine, 2015, 89, 668-678.	2.9	54
170	Disabling Mitochondrial Peroxide Metabolism via Combinatorial Targeting of Peroxiredoxin 3 as an Effective Therapeutic Approach for Malignant Mesothelioma. PLoS ONE, 2015, 10, e0127310.	2.5	26
171	Effects of the Mitochondria-Targeted Antioxidant Mitoquinone in Murine Acute Pancreatitis. Mediators of Inflammation, 2015, 2015, 1-13.	3.0	29
172	The mitochondrial-targeted antioxidant, MitoQ, increases liver mitochondrial cardiolipin content in obesogenic diet-fed rats. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 1025-1035.	1.0	40
173	Mitochondrial Superoxide Contributes to Hippocampal Synaptic Dysfunction and Memory Deficits in Angelman Syndrome Model Mice. Journal of Neuroscience, 2015, 35, 16213-16220.	3.6	52
174	HIGD1A Regulates Oxygen Consumption, ROS Production, and AMPK Activity during Glucose Deprivation to Modulate Cell Survival and Tumor Growth. Cell Reports, 2015, 10, 891-899.	6.4	79
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