

Michael Murphy

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

426
papers

43,920
citations

109
h-index

197
g-index

450
ext. papers

50,944
ext. citations

9.5
avg. IF

8.02
L-index

#	Paper	IF	Citations
426	Nrf2 activation reprograms macrophage intermediary metabolism and suppresses the type I interferon response.. <i>IScience</i> , 2022 , 25, 103827	6.1	4
425	Defining roles of specific reactive oxygen species (ROS) in cell biology and physiology.. <i>Nature Reviews Molecular Cell Biology</i> , 2022 ,	48.7	42
424	MitoQ Inhibits Human Breast Cancer Cell Migration, Invasion and Clonogenicity.. <i>Cancers</i> , 2022 , 14,	6.6	2
423	MitoQ Prevents Human Breast Cancer Recurrence and Lung Metastasis in Mice.. <i>Cancers</i> , 2022 , 14,	6.6	3
422	Why succinate? Physiological regulation by a mitochondrial coenzyme Q sentinel.. <i>Nature Chemical Biology</i> , 2022 , 18, 461-469	11.7	4
421	ND3 Cys39 in complex I is exposed during mitochondrial respiration. <i>Cell Chemical Biology</i> , 2021 ,	8.2	4
420	Cysteine 253 of UCP1 regulates energy expenditure and sex-dependent adipose tissue inflammation. <i>Cell Metabolism</i> , 2021 ,	24.6	6
419	Noninvasive Biomarkers for Cardiovascular Dysfunction Programmed in Male Offspring of Adverse Pregnancy. <i>Hypertension</i> , 2021 , 78, 1818-1828	8.5	0
418	Mitochondria-targeted therapeutics, MitoQ and BGP-15, reverse aging-associated meiotic spindle defects in mouse and human oocytes. <i>Human Reproduction</i> , 2021 , 36, 771-784	5.7	14
417	Mitochondria antioxidant protection against cardiovascular dysfunction programmed by early-onset gestational hypoxia. <i>FASEB Journal</i> , 2021 , 35, e21446	0.9	3
416	Abrogating mitochondrial ROS in neurons or astrocytes reveals cell-specific impact on mouse behaviour. <i>Redox Biology</i> , 2021 , 41, 101917	11.3	1
415	Generation of mitochondrial reactive oxygen species is controlled by ATPase inhibitory factor 1 and regulates cognition. <i>PLoS Biology</i> , 2021 , 19, e3001252	9.7	6
414	Mitochondria-targeted antioxidant MitoQ ameliorates ischaemia-reperfusion injury in kidney transplantation models. <i>British Journal of Surgery</i> , 2021 , 108, 1072-1081	5.3	3
413	Accelerating cryoprotectant diffusion kinetics improves cryopreservation of pancreatic islets. <i>Scientific Reports</i> , 2021 , 11, 10418	4.9	2
412	Effective therapeutic strategies in a preclinical mouse model of Charcot-Marie-Tooth disease. <i>Human Molecular Genetics</i> , 2021 , 30, 2441-2455	5.6	2
411	Mechanism of succinate efflux upon reperfusion of the ischaemic heart. <i>Cardiovascular Research</i> , 2021 , 117, 1188-1201	9.9	18
410	Mitochondria as Therapeutic Targets in Transplantation. <i>Trends in Molecular Medicine</i> , 2021 , 27, 185-198	11.5	11

409	Active RNA interference in mitochondria. <i>Cell Research</i> , 2021 , 31, 219-228	24.7	10
408	Nanoparticle-encapsulated antioxidant improves placental mitochondrial function in a sexually dimorphic manner in a rat model of prenatal hypoxia. <i>FASEB Journal</i> , 2021 , 35, e21338	0.9	5
407	Structural basis for a complex I mutation that blocks pathological ROS production. <i>Nature Communications</i> , 2021 , 12, 707	17.4	25
406	Tetra-arylborate lipophilic anions as targeting groups. <i>Chemical Communications</i> , 2021 , 57, 3147-3150	5.8	1
405	Nrf2 is activated by disruption of mitochondrial thiol homeostasis but not by enhanced mitochondrial superoxide production. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100169	5.4	9
404	Photoactivated release of membrane impermeant sulfonates inside cells. <i>Chemical Communications</i> , 2021 , 57, 3917-3920	5.8	1
403	Cholangiocyte organoids can repair bile ducts after transplantation in the human liver. <i>Science</i> , 2021 , 371, 839-846	33.3	45
402	Energy Metabolites as Biomarkers in Ischemic and Dilated Cardiomyopathy. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
401	Focally administered succinate improves cerebral metabolism in traumatic brain injury patients with mitochondrial dysfunction. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021 , 271678X2110421123	7.3	1
400	Insights on Targeting Small Molecules to the Mitochondrial Matrix and the Preparation of MitoB and MitoP as Exomarkers of Mitochondrial Hydrogen Peroxide. <i>Methods in Molecular Biology</i> , 2021 , 2275, 87-117	1.4	0
399	Disruption of the TCA cycle reveals an ATF4-dependent integration of redox and amino acid metabolism.. <i>ELife</i> , 2021 , 10,	8.9	5
398	Mitochondrial ROS prime the hyperglycemic shift from apoptosis to necroptosis. <i>Cell Death Discovery</i> , 2020 , 6, 132	6.9	5
397	Rapamycin-mediated mouse lifespan extension: Late-life dosage regimes with sex-specific effects. <i>Aging Cell</i> , 2020 , 19, e13269	9.9	17
396	Facultative protein selenation regulates redox sensitivity, adipose tissue thermogenesis, and obesity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 10789-10796	11.5	13
395	Premature synaptic mitochondrial dysfunction in the hippocampus during aging contributes to memory loss. <i>Redox Biology</i> , 2020 , 34, 101558	11.3	26
394	How should we talk about metabolism?. <i>Nature Immunology</i> , 2020 , 21, 713-715	19.1	7
393	Stable mitochondrial CICIII supercomplex interactions in reptiles versus homeothermic vertebrates. <i>Journal of Experimental Biology</i> , 2020 , 223,	3	9
392	Genes and lipids that impact uptake and assimilation of exogenous coenzyme Q in <i>Saccharomyces cerevisiae</i> . <i>Free Radical Biology and Medicine</i> , 2020 , 154, 105-118	7.8	4

391	Macrophage metabolic reprogramming presents a therapeutic target in lupus nephritis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 15160-15171	11.5	27
390	Reply to: In vivo quantification of mitochondrial membrane potential. <i>Nature</i> , 2020 , 583, E19-E20	50.4	0
389	Convergent evolution of conserved mitochondrial pathways underlies repeated adaptation to extreme environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 16424-16430	11.5	14
388	Mitochondria-targeted paraquat and metformin mediate ROS production to induce multiple pathways of retrograde signaling: A dose-dependent phenomenon. <i>Redox Biology</i> , 2020 , 36, 101606	11.3	27
387	The peroxisomal fatty acid transporter ABCD1/PMP-4 is required in the <i>C. elegans</i> hypodermis for axonal maintenance: A worm model for adrenoleukodystrophy. <i>Free Radical Biology and Medicine</i> , 2020 , 152, 797-809	7.8	9
386	Respiratory chain signalling is essential for adaptive remodelling following cardiac ischaemia. <i>Journal of Cellular and Molecular Medicine</i> , 2020 , 24, 3534-3548	5.6	8
385	Targeting mitochondrial oxidative stress with MitoQ reduces NET formation and kidney disease in lupus-prone MRL- mice. <i>Lupus Science and Medicine</i> , 2020 , 7,	4.6	27
384	Fine-tuning autophagy maximises lifespan and is associated with changes in mitochondrial gene expression in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2020 , 16, e1009083	6	11
383	Targeting mitochondrial fitness as a strategy for healthy vascular aging. <i>Clinical Science</i> , 2020 , 134, 149161519	15.19	16
382	Mitochondrial ROS production during ischemia-reperfusion injury	2020, 513-538	2
381	The interplay between redox signalling and proteostasis in neurodegeneration: In vivo effects of a mitochondria-targeted antioxidant in Huntington ^Q disease mice. <i>Free Radical Biology and Medicine</i> , 2020 , 146, 372-382	7.8	26
380	A sensitive mass spectrometric assay for mitochondrial CoQ pool redox state in vivo. <i>Free Radical Biology and Medicine</i> , 2020 , 147, 37-47	7.8	11
379	Confirmation of the Cardioprotective Effect of MitoGamide in the Diabetic Heart. <i>Cardiovascular Drugs and Therapy</i> , 2020 , 34, 823-834	3.9	5
378	Targeting succinate dehydrogenase with malonate ester prodrugs decreases renal ischemia reperfusion injury. <i>Redox Biology</i> , 2020 , 36, 101640	11.3	13
377	Ester Prodrugs of Malonate with Enhanced Intracellular Delivery Protect Against Cardiac Ischemia-Reperfusion Injury In Vivo. <i>Cardiovascular Drugs and Therapy</i> , 2020 , 1	3.9	10
376	Early detection of doxorubicin-induced cardiotoxicity in rats by its cardiac metabolic signature assessed with hyperpolarized MRI. <i>Communications Biology</i> , 2020 , 3, 692	6.7	11
375	Nucleotide-binding sites can enhance N-acylation of nearby protein lysine residues. <i>Scientific Reports</i> , 2020 , 10, 20254	4.9	2
374	Selective Delivery of Dicarboxylates to Mitochondria by Conjugation to a Lipophilic Cation via a Cleavable Linker. <i>Molecular Pharmaceutics</i> , 2020 , 17, 3526-3540	5.6	4

373	Brain energy rescue: an emerging therapeutic concept for neurodegenerative disorders of ageing. <i>Nature Reviews Drug Discovery</i> , 2020 , 19, 609-633	64.1	166
372	Isolating adverse effects of glucocorticoids on the embryonic cardiovascular system. <i>FASEB Journal</i> , 2020 , 34, 9664-9677	0.9	3
371	mtDNA mutations help support cancer cells.. <i>Nature Cancer</i> , 2020 , 1, 941-942	15.4	2
370	Enhancing the Mitochondrial Uptake of Phosphonium Cations by Carboxylic Acid Incorporation. <i>Frontiers in Chemistry</i> , 2020 , 8, 783	5	1
369	Translatable mitochondria-targeted protection against programmed cardiovascular dysfunction. <i>Science Advances</i> , 2020 , 6, eabb1929	14.3	16
368	Phosphorus spectroscopy in acute TBI demonstrates metabolic changes that relate to outcome in the presence of normal structural MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020 , 40, 67-84	7.3	5
367	The Mitochondria-Targeted Methylglyoxal Sequestering Compound, MitoGamide, Is Cardioprotective in the Diabetic Heart. <i>Cardiovascular Drugs and Therapy</i> , 2019 , 33, 669-674	3.9	11
366	Malonylation of GAPDH is an inflammatory signal in macrophages. <i>Nature Communications</i> , 2019 , 10, 338	17.4	62
365	Selective Disruption of Mitochondrial Thiol Redox State in Cells and In Vivo. <i>Cell Chemical Biology</i> , 2019 , 26, 449-461.e8	8.2	24
364	Immunological Synapse Formation Induces Mitochondrial Clustering and Mitophagy in Dendritic Cells. <i>Journal of Immunology</i> , 2019 , 202, 1715-1723	5.3	7
363	The damage-associated molecular pattern HMGB1 is released early after clinical hepatic ischemia/reperfusion. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019 , 1865, 1192-1200	6.9	13
362	Nrf2 controls iron homeostasis in haemochromatosis and thalassaemia via Bmp6 and hepcidin. <i>Nature Metabolism</i> , 2019 , 1, 519-531	14.6	46
361	Protection against cardiac ischemia-reperfusion injury by hypothermia and by inhibition of succinate accumulation and oxidation is additive. <i>Basic Research in Cardiology</i> , 2019 , 114, 18	11.8	42
360	Selective mitochondrial superoxide generation in vivo is cardioprotective through hormesis. <i>Free Radical Biology and Medicine</i> , 2019 , 134, 678-687	7.8	28
359	Mitochondrial mechanisms and therapeutics in ischaemia reperfusion injury. <i>Pediatric Nephrology</i> , 2019 , 34, 1167-1174	3.2	40
358	Rerouting metabolism to activate macrophages. <i>Nature Immunology</i> , 2019 , 20, 1097-1099	19.1	6
357	Oncogenic KRAS Induces NIX-Mediated Mitophagy to Promote Pancreatic Cancer. <i>Cancer Discovery</i> , 2019 , 9, 1268-1287	24.4	69
356	The Mitochondria-Targeted Antioxidant MitoQ Modulates Mitochondrial Function and Endoplasmic Reticulum Stress in Pancreatic Cells Exposed to Hyperglycaemia. <i>Cellular Physiology and Biochemistry</i> , 2019 , 52, 186-197	3.9	23

355	Metabolic adaptations during extreme anoxia in the turtle heart and their implications for ischemia-reperfusion injury. <i>Scientific Reports</i> , 2019 , 9, 2850	4.9	34
354	Species- and tissue-specific differences in ROS metabolism during exposure to hypoxia and hyperoxia plus recovery in marine sculpins. <i>Journal of Experimental Biology</i> , 2019 , 222,	3	5
353	Detection of changes in mitochondrial hydrogen sulfide in the fish model (Poeciliidae). <i>Biology Open</i> , 2019 , 8,	2.2	4
352	Succinate accumulation drives ischaemia-reperfusion injury during organ transplantation. <i>Nature Metabolism</i> , 2019 , 1, 966-974	14.6	53
351	APOPT1/COA8 assists COX assembly and is oppositely regulated by UPS and ROS. <i>EMBO Molecular Medicine</i> , 2019 , 11,	12	9
350	Therapeutic potential of the mitochondria-targeted antioxidant MitoQ in mitochondrial-ROS induced sensorineural hearing loss caused by Idh2 deficiency. <i>Redox Biology</i> , 2019 , 20, 544-555	11.3	30
349	Coupling Krebs cycle metabolites to signalling in immunity and cancer. <i>Nature Metabolism</i> , 2019 , 1, 16-33	14.6	148
348	Mitochondrial superoxide generation induces a parkinsonian phenotype in zebrafish and huntingtin aggregation in human cells. <i>Free Radical Biology and Medicine</i> , 2019 , 130, 318-327	7.8	24
347	Monoamine oxidase-dependent endoplasmic reticulum-mitochondria dysfunction and mast cell degranulation lead to adverse cardiac remodeling in diabetes. <i>Cell Death and Differentiation</i> , 2018 , 25, 1671-1685	12.7	33
346	Macrophage-Derived Extracellular Succinate Licenses Neural Stem Cells to Suppress Chronic Neuroinflammation. <i>Cell Stem Cell</i> , 2018 , 22, 355-368.e13	18	136
345	Suppression of reactive oxygen species generation in heart mitochondria from anoxic turtles: the role of complex I -nitrosation. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	27
344	Signed-For Delivery in the Mitochondrial Matrix: Confirming Uptake into Mitochondria. <i>Small Methods</i> , 2018 , 2, 1700297	12.8	3
343	A Comparison of Oxidative Lactate Metabolism in Traumatically Injured Brain and Control Brain. <i>Journal of Neurotrauma</i> , 2018 , 35, 2025-2035	5.4	18
342	Chronic Supplementation With a Mitochondrial Antioxidant (MitoQ) Improves Vascular Function in Healthy Older Adults. <i>Hypertension</i> , 2018 , 71, 1056-1063	8.5	179
341	Metabolomic Profiling in Acute ST-Segment-Elevation Myocardial Infarction Identifies Succinate as an Early Marker of Human Ischemia-Reperfusion Injury. <i>Journal of the American Heart Association</i> , 2018 , 7,	6	45
340	MitoQ improves mitochondrial dysfunction in heart failure induced by pressure overload. <i>Free Radical Biology and Medicine</i> , 2018 , 117, 18-29	7.8	61
339	Impact of the mitochondria-targeted antioxidant MitoQ on hypoxia-induced pulmonary hypertension. <i>European Respiratory Journal</i> , 2018 ,	13.6	30
338	Mitochondrial protein S-nitrosation protects against ischemia reperfusion-induced denervation at neuromuscular junction in skeletal muscle. <i>Free Radical Biology and Medicine</i> , 2018 , 117, 180-190	7.8	18

337	Glycolysis promotes caspase-3 activation in lipid rafts in T cells. <i>Cell Death and Disease</i> , 2018 , 9, 62	9.8	8
336	Mitochondrial oxidative stress causes insulin resistance without disrupting oxidative phosphorylation. <i>Journal of Biological Chemistry</i> , 2018 , 293, 7315-7328	5.4	69
335	Mitochondrial ROS cause motor deficits induced by synaptic inactivity: Implications for synapse pruning. <i>Redox Biology</i> , 2018 , 16, 344-351	11.3	31
334	Itaconate is an anti-inflammatory metabolite that activates Nrf2 via alkylation of KEAP1. <i>Nature</i> , 2018 , 556, 113-117	50.4	609
333	Pro-fluorescent mitochondria-targeted real-time responsive redox probes synthesised from carboxy isoindoline nitroxides: Sensitive probes of mitochondrial redox status in cells. <i>Free Radical Biology and Medicine</i> , 2018 , 128, 97-110	7.8	9
332	Age-related endothelial dysfunction in human skeletal muscle feed arteries: the role of free radicals derived from mitochondria in the vasculature. <i>Acta Physiologica</i> , 2018 , 222, e12893	5.6	34
331	Mitochondria-targeted antioxidant MitoQ reduced renal damage caused by ischemia-reperfusion injury in rodent kidneys: Longitudinal observations of T-weighted imaging and dynamic contrast-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 1559-1567	4.4	17
330	Mitochondria-targeted antioxidant therapy with MitoQ ameliorates aortic stiffening in old mice. <i>Journal of Applied Physiology</i> , 2018 , 124, 1194-1202	3.7	62
329	Mitochondrial ROS-derived PTEN oxidation activates PI3K pathway for mTOR-induced myogenic autophagy. <i>Cell Death and Differentiation</i> , 2018 , 25, 1921-1937	12.7	65
328	The effect of succinate on brain NADH/NAD redox state and high energy phosphate metabolism in acute traumatic brain injury. <i>Scientific Reports</i> , 2018 , 8, 11140	4.9	24
327	Accumulation of succinate controls activation of adipose tissue thermogenesis. <i>Nature</i> , 2018 , 560, 102-106	10.4	204
326	Restoring mitochondrial DNA copy number preserves mitochondrial function and delays vascular aging in mice. <i>Aging Cell</i> , 2018 , 17, e12773	9.9	48
325	The Causes and Consequences of Nonenzymatic Protein Acylation. <i>Trends in Biochemical Sciences</i> , 2018 , 43, 921-932	10.3	16
324	Proximal Cysteines that Enhance Lysine N-Acetylation of Cytosolic Proteins in Mice Are Less Conserved in Longer-Living Species. <i>Cell Reports</i> , 2018 , 24, 1445-1455	10.6	13
323	Altered cellular redox homeostasis and redox responses under standard oxygen cell culture conditions versus physioxia. <i>Free Radical Biology and Medicine</i> , 2018 , 126, 322-333	7.8	10
322	Ischemic preconditioning protects against cardiac ischemia reperfusion injury without affecting succinate accumulation or oxidation. <i>Journal of Molecular and Cellular Cardiology</i> , 2018 , 123, 88-91	5.8	30
321	Krebs Cycle Reimagined: The Emerging Roles of Succinate and Itaconate as Signal Transducers. <i>Cell</i> , 2018 , 174, 780-784	56.2	131
320	Myocardial NADPH oxidase-4 regulates the physiological response to acute exercise. <i>ELife</i> , 2018 , 7,	8.9	27

319	Mitochondrial-Targeted Antioxidant (MitoQ) Improves Vascular Function in Healthy Late Middle-Aged and Older Adults. <i>FASEB Journal</i> , 2018 , 32, 845.8	0.9	1
318	Guidelines on experimental methods to assess mitochondrial dysfunction in cellular models of neurodegenerative diseases. <i>Cell Death and Differentiation</i> , 2018 , 25, 542-572	12.7	64
317	Placental Adaptation to Early-Onset Hypoxic Pregnancy and Mitochondria-Targeted Antioxidant Therapy in a Rodent Model. <i>American Journal of Pathology</i> , 2018 , 188, 2704-2716	5.8	37
316	Mitochondria as a therapeutic target for common pathologies. <i>Nature Reviews Drug Discovery</i> , 2018 , 17, 865-886	64.1	301
315	Metabolic control of ferroptosis in cancer. <i>Nature Cell Biology</i> , 2018 , 20, 1104-1105	23.4	16
314	Mitochondria-derived ROS activate AMP-activated protein kinase (AMPK) indirectly. <i>Journal of Biological Chemistry</i> , 2018 , 293, 17208-17217	5.4	146
313	Control of mitochondrial superoxide production by reverse electron transport at complex I. <i>Journal of Biological Chemistry</i> , 2018 , 293, 9869-9879	5.4	119
312	MitoQ protects dopaminergic neurons in a 6-OHDA induced PD model by enhancing Mfn2-dependent mitochondrial fusion via activation of PGC-1 α . <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018 , 1864, 2859-2870	6.9	56
311	Attenuation of oxidative damage by targeting mitochondrial complex I in neonatal hypoxic-ischemic brain injury. <i>Free Radical Biology and Medicine</i> , 2018 , 124, 517-524	7.8	33
310	Using chemical biology to assess and modulate mitochondria: progress and challenges. <i>Interface Focus</i> , 2017 , 7, 20160151	3.9	9
309	Chemical biology of mitochondria. <i>Interface Focus</i> , 2017 , 7, 20170003	3.9	78
308	Non-enzymatic N-acetylation of Lysine Residues by AcetylCoA Often Occurs via a Proximal S-acetylated Thiol Intermediate Sensitive to Glyoxalase II. <i>Cell Reports</i> , 2017 , 18, 2105-2112	10.6	55
307	Mitochondrial ROS Production Protects the Intestine from Inflammation through Functional M2 Macrophage Polarization. <i>Cell Reports</i> , 2017 , 19, 1202-1213	10.6	101
306	ClickIn: a flexible protocol for quantifying mitochondrial uptake of nucleobase derivatives. <i>Interface Focus</i> , 2017 , 7, 20160117	3.9	4
305	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	11.5	86
304	Mitochondria-targeted antioxidant mitoquinone deactivates human and rat hepatic stellate cells and reduces portal hypertension in cirrhotic rats. <i>Liver International</i> , 2017 , 37, 1002-1012	7.9	28
303	Protein CoAlation: a redox-regulated protein modification by coenzyme A in mammalian cells. <i>Biochemical Journal</i> , 2017 , 474, 2489-2508	3.8	53
302	Assessment of HS using the newly developed mitochondria-targeted mass spectrometry probe MitoA. <i>Journal of Biological Chemistry</i> , 2017 , 292, 7761-7773	5.4	27

301	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	9.4	73
300	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	16.7	92
299	MitoNeoD: A Mitochondria-Targeted Superoxide Probe. <i>Cell Chemical Biology</i> , 2017 , 24, 1285-1298.e12	8.2	39
298	Treating the placenta to prevent adverse effects of gestational hypoxia on fetal brain development. <i>Scientific Reports</i> , 2017 , 7, 9079	4.9	57
297	Identification and quantification of protein -nitrosation by nitrite in the mouse heart during ischemia. <i>Journal of Biological Chemistry</i> , 2017 , 292, 14486-14495	5.4	28
296	Click-PEGylation - A mobility shift approach to assess the redox state of cysteines in candidate proteins. <i>Free Radical Biology and Medicine</i> , 2017 , 108, 374-382	7.8	18
295	Treatment with antioxidants ameliorates oxidative damage in a mouse model of propionic acidemia. <i>Molecular Genetics and Metabolism</i> , 2017 , 122, 43-50	3.7	25
294	Targeted mitochondrial therapy using MitoQ shows equivalent renoprotection to angiotensin converting enzyme inhibition but no combined synergy in diabetes. <i>Scientific Reports</i> , 2017 , 7, 15190	4.9	28
293	208 Cardioprotection by the mitochondria-targeted superoxide generator mitoparaquat in a murine model of acute myocardial ischaemia reperfusion injury. <i>Heart</i> , 2017 , 103, A138.3-A139	5.1	
292	Focally perfused succinate potentiates brain metabolism in head injury patients. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017 , 37, 2626-2638	7.3	36
291	Succinate Dehydrogenase Supports Metabolic Repurposing of Mitochondria to Drive Inflammatory Macrophages. <i>Cell</i> , 2016 , 167, 457-470.e13	56.2	878
290	The mitochondria-targeted antioxidant MitoQ modulates oxidative stress, inflammation and leukocyte-endothelium interactions in leukocytes isolated from type 2 diabetic patients. <i>Redox Biology</i> , 2016 , 10, 200-205	11.3	59
289	Understanding and preventing mitochondrial oxidative damage. <i>Biochemical Society Transactions</i> , 2016 , 44, 1219-1226	5.1	109
288	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	11.5	175
287	Mutant KRas-Induced Mitochondrial Oxidative Stress in Acinar Cells Upregulates EGFR Signaling to Drive Formation of Pancreatic Precancerous Lesions. <i>Cell Reports</i> , 2016 , 14, 2325-36	10.6	136
286	The Activity of Menkes Disease Protein ATP7A Is Essential for Redox Balance in Mitochondria. <i>Journal of Biological Chemistry</i> , 2016 , 291, 16644-58	5.4	37
285	A Unifying Mechanism for Mitochondrial Superoxide Production during Ischemia-Reperfusion Injury. <i>Cell Metabolism</i> , 2016 , 23, 254-63	24.6	369
284	Assessing the Mitochondrial Membrane Potential in Cells and In Vivo using Targeted Click Chemistry and Mass Spectrometry. <i>Cell Metabolism</i> , 2016 , 23, 379-85	24.6	62

283	Mitochondrial thiol modification by a targeted electrophile inhibits metabolism in breast adenocarcinoma cells by inhibiting enzyme activity and protein levels. <i>Redox Biology</i> , 2016 , 8, 136-48	11.3	14
282	Selective Mitochondrial Targeting Exerts Anxiolytic Effects In Vivo. <i>Neuropsychopharmacology</i> , 2016 , 41, 1751-8	8.7	27
281	The mitochondria-targeted antioxidant MitoQ attenuates liver fibrosis in mice. <i>International Journal of Physiology, Pathophysiology and Pharmacology</i> , 2016 , 8, 14-27	3.4	38
280	Mitochondrial and nuclear DNA matching shapes metabolism and healthy ageing. <i>Nature</i> , 2016 , 535, 561-5	50.4	248
279	Reactive oxygen species induce virus-independent MAVS oligomerization in systemic lupus erythematosus. <i>Science Signaling</i> , 2016 , 9, ra115	8.8	84
278	A mitochondrial-targeted ubiquinone modulates muscle lipid profile and improves mitochondrial respiration in obesogenic diet-fed rats. <i>British Journal of Nutrition</i> , 2016 , 115, 1155-66	3.6	28
277	Succinate metabolism: a new therapeutic target for myocardial reperfusion injury. <i>Cardiovascular Research</i> , 2016 , 111, 134-41	9.9	77
276	Moving Forwards by Blocking Back-Flow: The Yin and Yang of MI Therapy. <i>Circulation Research</i> , 2016 , 118, 898-906	15.7	60
275	Mitochondrial ROS Produced via Reverse Electron Transport Extend Animal Lifespan. <i>Cell Metabolism</i> , 2016 , 23, 725-34	24.6	220
274	Ubiquinol and plastoquinol triphenylphosphonium conjugates can carry electrons through phospholipid membranes. <i>Bioelectrochemistry</i> , 2016 , 111, 23-30	5.6	12
273	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. <i>Free Radical Biology and Medicine</i> , 2016 , 96, 1-12	7.8	35
272	Mitochondrial Diseases: Shortcuts to Therapies and Therapeutic Shortcuts. <i>Molecular Cell</i> , 2016 , 64, 5-6	17.6	2
271	Mitochondrial impairments contribute to Spinocerebellar ataxia type 1 progression and can be ameliorated by the mitochondria-targeted antioxidant MitoQ. <i>Free Radical Biology and Medicine</i> , 2016 , 97, 427-440	7.8	36
270	Assessing the Delivery of Molecules to the Mitochondrial Matrix Using Click Chemistry. <i>ChemBioChem</i> , 2016 , 17, 1312-6	3.8	13
269	The swan-neck lesion: proximal tubular adaptation to oxidative stress in nephropathic cystinosis. <i>American Journal of Physiology - Renal Physiology</i> , 2015 , 308, F1155-66	4.3	27
268	Cardiomyocyte mitochondrial oxidative stress and cytoskeletal breakdown in the heart with a primary volume overload. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 308, H651-63	5.2	56
267	Fasting, but Not Aging, Dramatically Alters the Redox Status of Cysteine Residues on Proteins in <i>Drosophila melanogaster</i> . <i>Cell Reports</i> , 2015 , 11, 1856-65	10.6	39
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