

Michael Murphy

List of Publications by Citations

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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	How mitochondria produce reactive oxygen species. <i>Biochemical Journal</i> , 2009 , 417, 1-13	3.8	4970
425	Ischaemic accumulation of succinate controls reperfusion injury through mitochondrial ROS. <i>Nature</i> , 2014 , 515, 431-435	50.4	1360
424	Succinate Dehydrogenase Supports Metabolic Repurposing of Mitochondria to Drive Inflammatory Macrophages. <i>Cell</i> , 2016 , 167, 457-470.e13	56.2	878
423	Targeting antioxidants to mitochondria by conjugation to lipophilic cations. <i>Annual Review of Pharmacology and Toxicology</i> , 2007 , 47, 629-56	17.9	869
422	Selective targeting of a redox-active ubiquinone to mitochondria within cells: antioxidant and antiapoptotic properties. <i>Journal of Biological Chemistry</i> , 2001 , 276, 4588-96	5.4	794
421	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, 15038-43	11.5	611
420	Itaconate is an anti-inflammatory metabolite that activates Nrf2 via alkylation of KEAP1. <i>Nature</i> , 2018 , 556, 113-117	50.4	609
419	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, 5407-12	11.5	551
418	Unraveling the biological roles of reactive oxygen species. <i>Cell Metabolism</i> , 2011 , 13, 361-366	24.6	542
417	Targeting an antioxidant to mitochondria decreases cardiac ischemia-reperfusion injury. <i>FASEB Journal</i> , 2005 , 19, 1088-95	0.9	499
416	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, 1029-36	7.3	441
415	Cardioprotection by S-nitrosation of a cysteine switch on mitochondrial complex I. <i>Nature Medicine</i> , 2013 , 19, 753-9	50.5	437
414	DICER1 loss and Alu RNA induce age-related macular degeneration via the NLRP3 inflammasome and MyD88. <i>Cell</i> , 2012 , 149, 847-59	56.2	432
413	Complex I is the major site of mitochondrial superoxide production by paraquat. <i>Journal of Biological Chemistry</i> , 2008 , 283, 1786-98	5.4	388
412	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, 1670-4	7	376
411	A Unifying Mechanism for Mitochondrial Superoxide Production during Ischemia-Reperfusion Injury. <i>Cell Metabolism</i> , 2016 , 23, 254-63	24.6	369
410	Targeting lipophilic cations to mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008 , 1777, 1028-31	4.6	368

409	Drug delivery to mitochondria: the key to mitochondrial medicine. <i>Advanced Drug Delivery Reviews</i> , 2000 , 41, 235-50	18.5	356
408	Prevention of mitochondrial oxidative damage as a therapeutic strategy in diabetes. <i>Diabetes</i> , 2004 , 53 Suppl 1, S110-8	0.9	353
407	Redox Homeostasis and Mitochondrial Dynamics. <i>Cell Metabolism</i> , 2015 , 22, 207-18	24.6	350
406	Mitochondrial pharmacology. <i>Trends in Pharmacological Sciences</i> , 2012 , 33, 341-52	13.2	349
405	Animal and human studies with the mitochondria-targeted antioxidant MitoQ. <i>Annals of the New York Academy of Sciences</i> , 2010 , 1201, 96-103	6.5	348
404	Selective targeting of an antioxidant to mitochondria. <i>FEBS Journal</i> , 1999 , 263, 709-16		348
403	Ferredoxin reductase affects p53-dependent, 5-fluorouracil-induced apoptosis in colorectal cancer cells. <i>Nature Medicine</i> , 2001 , 7, 1111-7	50.5	345
402	Mitochondria-targeted antioxidants protect against amyloid-beta toxicity in Alzheimer's disease neurons. <i>Journal of Alzheimer's Disease</i> , 2010 , 20 Suppl 2, S609-31	4.3	335
401	Reversible glutathionylation of complex I increases mitochondrial superoxide formation. <i>Journal of Biological Chemistry</i> , 2003 , 278, 19603-10	5.4	318
400	Glutaredoxin 2 catalyzes the reversible oxidation and glutathionylation of mitochondrial membrane thiol proteins: implications for mitochondrial redox regulation and antioxidant DEFENSE. <i>Journal of Biological Chemistry</i> , 2004 , 279, 47939-51	5.4	317
399	Superoxide activates mitochondrial uncoupling protein 2 from the matrix side. Studies using targeted antioxidants. <i>Journal of Biological Chemistry</i> , 2002 , 277, 47129-35	5.4	313
398	Lipophilic triphenylphosphonium cations as tools in mitochondrial bioenergetics and free radical biology. <i>Biochemistry (Moscow)</i> , 2005 , 70, 222-30	2.9	308
397	Mitochondria as a therapeutic target for common pathologies. <i>Nature Reviews Drug Discovery</i> , 2018 , 17, 865-886	64.1	301
396	Nitric oxide and cell death. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1999 , 1411, 401-14	4.6	297
395	Mitochondria-targeted small molecule therapeutics and probes. <i>Antioxidants and Redox Signaling</i> , 2011 , 15, 3021-38	8.4	294
394	Mitochondria-targeted antioxidants protect Friedreich Ataxia fibroblasts from endogenous oxidative stress more effectively than untargeted antioxidants. <i>FASEB Journal</i> , 2003 , 17, 1972-4	0.9	285
393	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, 15703-15	6.6	278
392	Selective targeting of bioactive compounds to mitochondria. <i>Trends in Biotechnology</i> , 1997 , 15, 326-30	15.1	276

391	Interactions of mitochondria-targeted and untargeted ubiquinones with the mitochondrial respiratory chain and reactive oxygen species. Implications for the use of exogenous ubiquinones as therapies and experimental tools. <i>Journal of Biological Chemistry</i> , 2005 , 280, 21295-312	5.4	267
390	Mitochondria-targeted antioxidant MitoQ10 improves endothelial function and attenuates cardiac hypertrophy. <i>Hypertension</i> , 2009 , 54, 322-8	8.5	260
389	Superoxide activates uncoupling proteins by generating carbon-centered radicals and initiating lipid peroxidation: studies using a mitochondria-targeted spin trap derived from alpha-phenyl-N-tert-butyl nitron. <i>Journal of Biological Chemistry</i> , 2003 , 278, 48534-45	5.4	256
388	The mitochondria-targeted anti-oxidant mitoquinone decreases liver damage in a phase II study of hepatitis C patients. <i>Liver International</i> , 2010 , 30, 1019-26	7.9	254
387	Mitochondrial and nuclear DNA matching shapes metabolism and healthy ageing. <i>Nature</i> , 2016 , 535, 561-5	50.4	248
386	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, 769-80	11.5	241
385	Mitochondrial thiols in antioxidant protection and redox signaling: distinct roles for glutathionylation and other thiol modifications. <i>Antioxidants and Redox Signaling</i> , 2012 , 16, 476-95	8.4	238
384	Measurement of H ₂ O ₂ within living <i>Drosophila</i> during aging using a ratiometric mass spectrometry probe targeted to the mitochondrial matrix. <i>Cell Metabolism</i> , 2011 , 13, 340-50	24.6	231
383	Inhibition of complex I of the electron transport chain causes O ₂ ⁻ -mediated mitochondrial outgrowth. <i>American Journal of Physiology - Cell Physiology</i> , 2005 , 288, C1440-50	5.4	227
382	Mitochondrial ROS Produced via Reverse Electron Transport Extend Animal Lifespan. <i>Cell Metabolism</i> , 2016 , 23, 725-34	24.6	220
381	Antioxidant and prooxidant properties of mitochondrial Coenzyme Q. <i>Archives of Biochemistry and Biophysics</i> , 2004 , 423, 47-56	4.1	212
380	Accumulation of succinate controls activation of adipose tissue thermogenesis. <i>Nature</i> , 2018 , 560, 102-106	106.4	204
379	Mitochondrial redox signalling at a glance. <i>Journal of Cell Science</i> , 2012 , 125, 801-6	5.3	204
378	Control of electron flux through the respiratory chain in mitochondria and cells. <i>Biological Reviews</i> , 1987 , 62, 141-93	13.5	204
377	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, 472-80	5.4	202
376	The mitochondria-targeted antioxidant MitoQ protects against organ damage in a lipopolysaccharide-peptidoglycan model of sepsis. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 1559-65	7.8	195
375	Dysregulated metabolism contributes to oncogenesis. <i>Seminars in Cancer Biology</i> , 2015 , 35 Suppl, S129-S150	150	189
374	Metformin Inhibits the Production of Reactive Oxygen Species from NADH:Ubiquinone Oxidoreductase to Limit Induction of Interleukin-1 (IL-1) and Boosts Interleukin-10 (IL-10) in Lipopolysaccharide (LPS)-activated Macrophages. <i>Journal of Biological Chemistry</i> , 2015 , 290, 20348-59	5.4	184

373	A mitochondria-targeted S-nitrosothiol modulates respiration, nitrosates thiols, and protects against ischemia-reperfusion injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 10764-9	11.5	184
372	Changes in mitochondrial membrane potential during staurosporine-induced apoptosis in Jurkat cells. <i>FEBS Letters</i> , 2000 , 475, 267-72	3.8	183
371	Designing a broad-spectrum integrative approach for cancer prevention and treatment. <i>Seminars in Cancer Biology</i> , 2015 , 35 Suppl, S276-S304	12.7	179
370	Chronic Supplementation With a Mitochondrial Antioxidant (MitoQ) Improves Vascular Function in Healthy Older Adults. <i>Hypertension</i> , 2018 , 71, 1056-1063	8.5	179
369	Prevention of diabetic nephropathy in Ins2(+/?)(AkitaJ) mice by the mitochondria-targeted therapy MitoQ. <i>Biochemical Journal</i> , 2010 , 432, 9-19	3.8	176
368	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
367	Mitochondria-derived reactive oxygen species mediate blue light-induced death of retinal pigment epithelial cells. <i>Photochemistry and Photobiology</i> , 2004 , 79, 470-5	3.6	173
366	A redox switch in angiotensinogen modulates angiotensin release. <i>Nature</i> , 2010 , 468, 108-11	50.4	171
365	DNA damage links mitochondrial dysfunction to atherosclerosis and the metabolic syndrome. <i>Circulation Research</i> , 2010 , 107, 1021-31	15.7	168
364	Glutathionylation of mitochondrial proteins. <i>Antioxidants and Redox Signaling</i> , 2005 , 7, 999-1010	8.4	166
363	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
362	Persistent S-nitrosation of complex I and other mitochondrial membrane proteins by S-nitrosothiols but not nitric oxide or peroxynitrite: implications for the interaction of nitric oxide with mitochondria. <i>Journal of Biological Chemistry</i> , 2006 , 281, 10056-65	5.4	164
361	Cysteine residues exposed on protein surfaces are the dominant intramitochondrial thiol and may protect against oxidative damage. <i>FEBS Journal</i> , 2010 , 277, 1465-80	5.7	163
360	Interaction of the mitochondria-targeted antioxidant MitoQ with phospholipid bilayers and ubiquinone oxidoreductases. <i>Journal of Biological Chemistry</i> , 2007 , 282, 14708-18	5.4	161
359	MitoQ counteracts telomere shortening and elongates lifespan of fibroblasts under mild oxidative stress. <i>Aging Cell</i> , 2003 , 2, 141-3	9.9	161
358	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. <i>Circulation</i> , 2013 , 128, 702-12	16.7	160
357	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, 161-72	7.8	157
356	Specific modification of mitochondrial protein thiols in response to oxidative stress: a proteomics approach. <i>Journal of Biological Chemistry</i> , 2002 , 277, 17048-56	5.4	157

355	Mitochondrially targeted compounds and their impact on cellular bioenergetics. <i>Redox Biology</i> , 2013 , 1, 86-93	11.3	155
354	A mitochondria-targeted nitroxide is reduced to its hydroxylamine by ubiquinol in mitochondria. <i>Free Radical Biology and Medicine</i> , 2008 , 44, 1406-19	7.8	153
353	Peroxynitrite: a biologically significant oxidant. <i>General Pharmacology</i> , 1998 , 31, 179-86		150
352	Complex I within oxidatively stressed bovine heart mitochondria is glutathionylated on Cys-531 and Cys-704 of the 75-kDa subunit: potential role of CYS residues in decreasing oxidative damage. <i>Journal of Biological Chemistry</i> , 2008 , 283, 24801-15	5.4	150
351	Fine-tuning the hydrophobicity of a mitochondria-targeted antioxidant. <i>FEBS Letters</i> , 2004 , 571, 9-16	3.8	148
350	Coupling Krebs cycle metabolites to signalling in immunity and cancer. <i>Nature Metabolism</i> , 2019 , 1, 16-33	4.6	148
349	Rapid and extensive uptake and activation of hydrophobic triphenylphosphonium cations within cells. <i>Biochemical Journal</i> , 2008 , 411, 633-45	3.8	146
348	Mitochondria-derived ROS activate AMP-activated protein kinase (AMPK) indirectly. <i>Journal of Biological Chemistry</i> , 2018 , 293, 17208-17217	5.4	146
347	Ubiad1 is an antioxidant enzyme that regulates eNOS activity by CoQ10 synthesis. <i>Cell</i> , 2013 , 152, 504-18	6.2	144
346	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, 3926-38	20.1	144
345	Altered mitochondrial function in fibroblasts containing MELAS or MERRF mitochondrial DNA mutations. <i>Biochemical Journal</i> , 1996 , 318 (Pt 2), 401-7	3.8	141
344	Mitochondria-targeted antioxidant (MitoQ) ameliorates age-related arterial endothelial dysfunction in mice. <i>Journal of Physiology</i> , 2014 , 592, 2549-61	3.9	138
343	Macrophage-Derived Extracellular Succinate Licenses Neural Stem Cells to Suppress Chronic Neuroinflammation. <i>Cell Stem Cell</i> , 2018 , 22, 355-368.e13	18	136
342	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
341	Release of apoptogenic proteins from the mitochondrial intermembrane space during the mitochondrial permeability transition. <i>FEBS Letters</i> , 1997 , 418, 282-6	3.8	136
340	Quantitation and origin of the mitochondrial membrane potential in human cells lacking mitochondrial DNA. <i>FEBS Journal</i> , 1999 , 262, 108-16		136
339	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, 1852-63	20.1	135
338	Krebs Cycle Reimagined: The Emerging Roles of Succinate and Itaconate as Signal Transducers. <i>Cell</i> , 2018 , 174, 780-784	56.2	131

337	Mitochondrial H ₂ O ₂ generated from electron transport chain complex I stimulates muscle differentiation. <i>Cell Research</i> , 2011 , 21, 817-34	24.7	128
336	Protection against renal ischemia-reperfusion injury in vivo by the mitochondria targeted antioxidant MitoQ. <i>Redox Biology</i> , 2015 , 5, 163-168	11.3	127
335	The mitochondria-targeted antioxidant MitoQ decreases features of the metabolic syndrome in ATM+/-/ApoE-/- mice. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 841-9	7.8	127
334	Mitochondrial reactive oxygen species regulate the temporal activation of nuclear factor kappaB to modulate tumour necrosis factor-induced apoptosis: evidence from mitochondria-targeted antioxidants. <i>Biochemical Journal</i> , 2005 , 389, 83-9	3.8	127
333	Bioenergetic consequences of accumulating the common 4977-bp mitochondrial DNA deletion. <i>FEBS Journal</i> , 1998 , 257, 192-201		126
332	Slip and leak in mitochondrial oxidative phosphorylation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1989 , 977, 123-41	4.6	123
331	Mitochondrial superoxide and aging: uncoupling-protein activity and superoxide production. <i>Biochemical Society Symposia</i> , 2004 , 203-13		123
330	Mitochondria-targeted antioxidant MitoQ ameliorates experimental mouse colitis by suppressing NLRP3 inflammasome-mediated inflammatory cytokines. <i>BMC Medicine</i> , 2013 , 11, 178	11.4	121
329	Detection of reactive oxygen species-sensitive thiol proteins by redox difference gel electrophoresis: implications for mitochondrial redox signaling. <i>Journal of Biological Chemistry</i> , 2007 , 282, 22040-51	5.4	121
328	Antioxidants can inhibit basal autophagy and enhance neurodegeneration in models of polyglutamine disease. <i>Human Molecular Genetics</i> , 2010 , 19, 3413-29	5.6	119
327	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	3.8	119
326	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
325	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, 19689-94	11.5	117
324	Amyloid β induced impairments in hippocampal synaptic plasticity are rescued by decreasing mitochondrial superoxide. <i>Journal of Neuroscience</i> , 2011 , 31, 5589-95	6.6	115
323	Beta-amyloid mediated nitration of manganese superoxide dismutase: implication for oxidative stress in a APPNLH/NLH X PS-1P264L/P264L double knock-in mouse model of Alzheimer's disease. <i>American Journal of Pathology</i> , 2006 , 168, 1608-18	5.8	115
322	How mitochondrial damage affects cell function. <i>Journal of Biomedical Science</i> , 2002 , 9, 475-487	13.3	114
321	Peroxynitrite causes calcium efflux from mitochondria which is prevented by Cyclosporin A. <i>FEBS Letters</i> , 1994 , 345, 237-40	3.8	114
320	KSR2 mutations are associated with obesity, insulin resistance, and impaired cellular fuel oxidation. <i>Cell</i> , 2013 , 155, 765-77	56.2	113

319	Mitochondrial dysfunction indirectly elevates ROS production by the endoplasmic reticulum. <i>Cell Metabolism</i> , 2013 , 18, 145-6	24.6	111
318	Understanding and preventing mitochondrial oxidative damage. <i>Biochemical Society Transactions</i> , 2016 , 44, 1219-1226	5.1	109
317	Peroxynitrite formed by simultaneous nitric oxide and superoxide generation causes cyclosporin-A-sensitive mitochondrial calcium efflux and depolarisation. <i>FEBS Journal</i> , 1995 , 234, 231-9		109
316	MitoQ administration prevents endotoxin-induced cardiac dysfunction. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009 , 297, R1095-102	3.2	108
315	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, 356-70	5.6	108
314	Mitochondrial oxidative stress and the metabolic syndrome. <i>Trends in Endocrinology and Metabolism</i> , 2012 , 23, 429-34	8.8	105
313	Synthesis and characterization of a triphenylphosphonium-conjugated peroxidase mimetic. Insights into the interaction of ebselen with mitochondria. <i>Journal of Biological Chemistry</i> , 2005 , 280, 24113-26	5.4	105
312	Antioxidant and pro-oxidant properties of pyrroloquinoline quinone (PQQ): implications for its function in biological systems. <i>Biochemical Pharmacology</i> , 2003 , 65, 67-74	6	105
311	The MitoFlash probe cpYFP does not respond to superoxide. <i>Nature</i> , 2014 , 514, E12-4	50.4	103
310	Targeting mitochondria-derived reactive oxygen species to reduce epithelial barrier dysfunction and colitis. <i>American Journal of Pathology</i> , 2014 , 184, 2516-27	5.8	103
309	Mitochondrial uncouplers with an extraordinary dynamic range. <i>Biochemical Journal</i> , 2007 , 407, 129-40	3.8	102
308	Mitochondrial ROS Production Protects the Intestine from Inflammation through Functional M2 Macrophage Polarization. <i>Cell Reports</i> , 2017 , 19, 1202-1213	10.6	101
307	Prevention of mitochondrial oxidative damage using targeted antioxidants. <i>Annals of the New York Academy of Sciences</i> , 2002 , 959, 263-74	6.5	100
306	Mitochondria-targeted antioxidants as therapies. <i>Discovery Medicine</i> , 2011 , 11, 106-14	2.5	100
305	Antioxidants as therapies: can we improve on nature?. <i>Free Radical Biology and Medicine</i> , 2014 , 66, 20-3	7.8	99
304	Using the mitochondria-targeted ratiometric mass spectrometry probe MitoB to measure H ₂ O ₂ in living <i>Drosophila</i> . <i>Nature Protocols</i> , 2012 , 7, 946-58	18.8	98
303	Mitochondrial targeting of quinones: therapeutic implications. <i>Mitochondrion</i> , 2007 , 7 Suppl, S94-102	4.9	98
302	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, 181-90	7.8	98

301	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, 204-13	7.8	97
300	Selective uncoupling of individual mitochondria within a cell using a mitochondria-targeted photoactivated protonophore. <i>Journal of the American Chemical Society</i> , 2012 , 134, 758-61	16.4	97
299	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, 1187-93	4.8	95
298	Antioxidant properties of MitoTEMPOL and its hydroxylamine. <i>Free Radical Research</i> , 2009 , 43, 4-12	4	94
297	Accumulation of lipophilic dications by mitochondria and cells. <i>Biochemical Journal</i> , 2006 , 400, 199-208	3.8	94
296	Mitochondrial function is required for hydrogen peroxide-induced growth factor receptor transactivation and downstream signaling. <i>Journal of Biological Chemistry</i> , 2004 , 279, 35079-86	5.4	94
295	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, 174-82	6.9	93
294	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, 105-9	7.8	93
293	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
292	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, 1009-17	4	92
291	A targeted antioxidant reveals the importance of mitochondrial reactive oxygen species in the hypoxic signaling of HIF-1alpha. <i>FEBS Letters</i> , 2005 , 579, 2669-74	3.8	92
290	Mitochondria-targeted antioxidants in the treatment of disease. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1147, 105-11	6.5	88
289	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
288	Mitochondria-targeted ubiquinone (MitoQ) decreases ethanol-dependent micro and macro hepatosteatosis. <i>Hepatology</i> , 2011 , 54, 153-63	11.2	86
287	Selective superoxide generation within mitochondria by the targeted redox cyler MitoParaquat. <i>Free Radical Biology and Medicine</i> , 2015 , 89, 883-94	7.8	85
286	Neurological deficits caused by tissue hypoxia in neuroinflammatory disease. <i>Annals of Neurology</i> , 2013 , 74, 815-25	9.4	85
285	Mitochondria-targeted antioxidants protect pancreatic beta cells against oxidative stress and improve insulin secretion in glucotoxicity and glulipotoxicity. <i>Cellular Physiology and Biochemistry</i> , 2011 , 28, 873-86	3.9	84
284	Activation of mitogen-activated protein kinases by lysophosphatidylcholine-induced mitochondrial reactive oxygen species generation in endothelial cells. <i>American Journal of Pathology</i> , 2006 , 168, 1737-48	5.8	84

283	Reactive oxygen species induce virus-independent MAVS oligomerization in systemic lupus erythematosus. <i>Science Signaling</i> , 2016 , 9, ra115	8.8	84
282	Synthesis and characterization of thiobutyltriphenylphosphonium bromide, a novel thiol reagent targeted to the mitochondrial matrix. <i>Archives of Biochemistry and Biophysics</i> , 1995 , 322, 60-8	4.1	82
281	Defects in mitochondrial clearance predispose human monocytes to interleukin-1 β hypersecretion. <i>Journal of Biological Chemistry</i> , 2014 , 289, 5000-12	5.4	81
280	In vivo levels of mitochondrial hydrogen peroxide increase with age in mtDNA mutator mice. <i>Aging Cell</i> , 2014 , 13, 765-8	9.9	80
279	Chemical biology of mitochondria. <i>Interface Focus</i> , 2017 , 7, 20170003	3.9	78
278	Characterization of mice with a deletion of protein kinase G type I in cardiomyocytes and the effect on cardioprotection through either postconditioning or mitochondria-targeted S-nitrosothiol. <i>BMC Pharmacology</i> , 2011 , 11,		78
277	Proteomic approaches to the characterization of protein thiol modification. <i>Current Opinion in Chemical Biology</i> , 2011 , 15, 120-8	9.7	78
276	A new hypertrophic mechanism of serotonin in cardiac myocytes: receptor-independent ROS generation. <i>FASEB Journal</i> , 2005 , 19, 641-3	0.9	78
275	Succinate metabolism: a new therapeutic target for myocardial reperfusion injury. <i>Cardiovascular Research</i> , 2016 , 111, 134-41	9.9	77
274	The LRRK2 inhibitor GSK2578215A induces protective autophagy in SH-SY5Y cells: involvement of Drp-1-mediated mitochondrial fission and mitochondrial-derived ROS signaling. <i>Cell Death and Disease</i> , 2014 , 5, e1368	9.8	76
273	Cell-penetrating peptides do not cross mitochondrial membranes even when conjugated to a lipophilic cation: evidence against direct passage through phospholipid bilayers. <i>Biochemical Journal</i> , 2004 , 383, 457-68	3.8	75
272	Targeting coenzyme Q derivatives to mitochondria. <i>Methods in Enzymology</i> , 2004 , 382, 45-67	1.7	75
271	Alterations to glutathione and nicotinamide nucleotides during the mitochondrial permeability transition induced by peroxynitrite. <i>Biochemical Pharmacology</i> , 1996 , 52, 1047-55	6	75
270	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
269	Modulating mitochondrial intracellular location as a redox signal. <i>Science Signaling</i> , 2012 , 5, pe39	8.8	73
268	Decreased ATP synthesis is phenotypically expressed during increased energy demand in fibroblasts containing mitochondrial tRNA mutations. <i>FEBS Journal</i> , 1999 , 259, 462-9		73
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