

Selective fluorescent imaging of superoxide in vivo using

Proceedings of the National Academy of Sciences of the United States of America  
103, 15038-15043

DOI: [10.1073/pnas.0601945103](https://doi.org/10.1073/pnas.0601945103)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Rapid Activation of Antioxidant Defenses by Nerve Growth Factor Suppresses Reactive Oxygen Species during Neuronal Apoptosis: Evidence for a Role in Cytochrome <i>c</i> Redistribution. <i>Journal of Neuroscience</i> , 2007, 27, 11315-11326.	1.7	76
2	Mitochondrial Superoxide Production and Nuclear Factor Erythroid 2-Related Factor 2 Activation in p75 Neurotrophin Receptor-Induced Motor Neuron Apoptosis. <i>Journal of Neuroscience</i> , 2007, 27, 7777-7785.	1.7	110
3	Neurovascular Protection by Ischemic Tolerance: Role of Nitric Oxide and Reactive Oxygen Species. <i>Journal of Neuroscience</i> , 2007, 27, 7083-7093.	1.7	137
4	Glitazones Induce Astrogloma Cell Death by Releasing Reactive Oxygen Species from Mitochondria: Modulation of Cytotoxicity by Nitric Oxide. <i>Molecular Pharmacology</i> , 2007, 72, 407-417.	1.0	40
5	Strategies to reduce late-stage drug attrition due to mitochondrial toxicity. <i>Expert Review of Molecular Diagnostics</i> , 2007, 7, 161-175.	1.5	92
6	Superoxide and Derived Reactive Oxygen Species in the Regulation of Hypoxia-Inducible Factors. <i>Methods in Enzymology</i> , 2007, 435, 421-446.	0.4	69
7	Mechanism of Cell Death Caused by Complex I Defects in a Rat Dopaminergic Cell Line. <i>Journal of Biological Chemistry</i> , 2007, 282, 24146-24156.	1.6	72
8	Cannabidiol attenuates high glucose-induced endothelial cell inflammatory response and barrier disruption. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H610-H619.	1.5	168
9	Simple quantitative detection of mitochondrial superoxide production in live cells. <i>Biochemical and Biophysical Research Communications</i> , 2007, 358, 203-208.	1.0	283
10	Targeting lipoic acid to mitochondria: Synthesis and characterization of a triphenylphosphonium-conjugated $\pm$ -lipoyl derivative. <i>Free Radical Biology and Medicine</i> , 2007, 42, 1766-1780.	1.3	75
11	Enhanced mitochondrial superoxide in hyperglycemic endothelial cells: direct measurements and formation of hydrogen peroxide and peroxynitrite. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H3404-H3414.	1.5	101
12	Mitochondrial superoxide radicals mediate programmed cell death in <i>Trypanosoma cruzi</i> : cytoprotective action of mitochondrial iron superoxide dismutase overexpression. <i>Biochemical Journal</i> , 2007, 403, 323-334.	1.7	125
13	Respiratory chain components involved in the glycerophosphate dehydrogenase-dependent ROS production by brown adipose tissue mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 989-997.	0.5	35
14	Methylmalonic acidemia leads to increased production of reactive oxygen species and induction of apoptosis through the mitochondrial/caspase pathway. <i>Journal of Pathology</i> , 2007, 213, 453-461.	2.1	47
15	Simultaneous detection of apoptosis and mitochondrial superoxide production in live cells by flow cytometry and confocal microscopy. <i>Nature Protocols</i> , 2007, 2, 2295-2301.	5.5	324
16	Mutant SOD1-induced neuronal toxicity is mediated by increased mitochondrial superoxide levels. <i>Journal of Neurochemistry</i> , 2007, 102, 609-618.	2.1	56
17	Estrogen suppresses brain mitochondrial oxidative stress in female and male rats. <i>Brain Research</i> , 2007, 1176, 71-81.	1.1	173
18	Fluorescent and luminescent probes for measurement of oxidative and nitrosative species in cells and tissues: Progress, pitfalls, and prospects. <i>Free Radical Biology and Medicine</i> , 2007, 43, 995-1022.	1.3	752

#	ARTICLE	IF	CITATIONS
19	Calcium-dependent production of reactive oxygen species is involved in neuronal damage induced during glycolysis inhibition in cultured hippocampal neurons. <i>Journal of Neuroscience Research</i> , 2008, 86, 1768-1780.	1.3	67
20	Glucose and NADPH oxidase drive neuronal superoxide formation in stroke. <i>Annals of Neurology</i> , 2008, 64, 654-663.	2.8	246
21	Carbaporphyrin ketals as potential agents for a new photodynamic therapy treatment of leishmaniasis. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 7033-7038.	1.4	53
22	Reactive oxygen species contribute to Ca <sup>2+</sup> signals produced by osmotic stress in mouse skeletal muscle fibres. <i>Journal of Physiology</i> , 2008, 586, 197-210.	1.3	66
23	N-Acetylcysteine ameliorates skeletal muscle pathophysiology in mdx mice. <i>Journal of Physiology</i> , 2008, 586, 2003-2014.	1.3	200
24	Distinct mitochondrial retrograde signals control the G1-S cell cycle checkpoint. <i>Nature Genetics</i> , 2008, 40, 356-361.	9.4	338
25	Detection of 2-hydroxyethidium in cellular systems: a unique marker product of superoxide and hydroethidine. <i>Nature Protocols</i> , 2008, 3, 8-21.	5.5	351
26	Superoxide radical detection in cells, tissues, organisms (animals, plants, insects, microorganisms) and soils. <i>Nature Protocols</i> , 2008, 3, 1679-1692.	5.5	46
27	The selective detection of mitochondrial superoxide by live cell imaging. <i>Nature Protocols</i> , 2008, 3, 941-947.	5.5	228
28	Free radicals generated by contracting muscle: By-products of metabolism or key regulators of muscle function?. <i>Free Radical Biology and Medicine</i> , 2008, 44, 132-141.	1.3	125
29	Cytochrome c-mediated oxidation of hydroethidine and mito-hydroethidine in mitochondria: Identification of homo- and heterodimers. <i>Free Radical Biology and Medicine</i> , 2008, 44, 835-846.	1.3	98
30	Thiol chemistry and specificity in redox signaling. <i>Free Radical Biology and Medicine</i> , 2008, 45, 549-561.	1.3	1,039
31	"ROS-generating mitochondrial DNA mutations can regulate tumor cell metastasis" a critical commentary. <i>Free Radical Biology and Medicine</i> , 2008, 45, 1217-1219.	1.3	50
32	Reactive oxygen species produced up- or downstream of calcium influx regulate proinflammatory mediator release from mast cells: Role of NADPH oxidase and mitochondria. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 789-802.	1.9	45
33	Extracellular superoxide released from mitochondria mediates mast cell death by advanced glycation end products. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 2332-2343.	1.9	18
34	Adenosine 3',5'-cyclic monophosphate (cAMP)-dependent phosphoregulation of mitochondrial complex I is inhibited by nucleoside reverse transcriptase inhibitors. <i>Toxicology and Applied Pharmacology</i> , 2008, 226, 94-106.	1.3	40
35	Assessment of Superoxide Production and NADPH Oxidase Activity by HPLC Analysis of Dihydroethidium Oxidation Products. <i>Methods in Enzymology</i> , 2008, 441, 237-260.	0.4	93
36	Oxidative stress caused by blocking of mitochondrial Complex I H <sup>+</sup> pumping as a link in aging/disease vicious cycle. <i>International Journal of Biochemistry and Cell Biology</i> , 2008, 40, 1792-1805.	1.2	53

#	ARTICLE	IF	CITATIONS
37	Antioxidant capacity contributes to protection of ketone bodies against oxidative damage induced during hypoglycemic conditions. <i>Experimental Neurology</i> , 2008, 211, 85-96.	2.0	136
38	A Targetable Fluorescent Probe for Imaging Hydrogen Peroxide in the Mitochondria of Living Cells. <i>Journal of the American Chemical Society</i> , 2008, 130, 9638-9639.	6.6	582
39	Mitochondrial Dysfunction in SOD1 <sup>G93A</sup> -Bearing Astrocytes Promotes Motor Neuron Degeneration: Prevention by Mitochondrial-Targeted Antioxidants. <i>Journal of Neuroscience</i> , 2008, 28, 4115-4122.	1.7	285
40	Rapid and extensive uptake and activation of hydrophobic triphenylphosphonium cations within cells. <i>Biochemical Journal</i> , 2008, 411, 633-645.	1.7	168
41	Production of Reactive Oxygen Species by Complex I (NADH:Ubiquinone Oxidoreductase) from <i>Escherichia coli</i> and Comparison to the Enzyme from Mitochondria. <i>Biochemistry</i> , 2008, 47, 3964-3971.	1.2	109
42	Zinc Triggers Microglial Activation. <i>Journal of Neuroscience</i> , 2008, 28, 5827-5835.	1.7	157
43	Prevention of TNF-induced necrotic cell death by rottlerin through a Nox1 NADPH oxidase. <i>Experimental and Molecular Medicine</i> , 2008, 40, 186.	3.2	24
44	Endothelial cell respiration is affected by the oxygen tension during shear exposure: role of mitochondrial peroxynitrite. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C180-C191.	2.1	56
45	Reactive Oxygen Species Production in Energized Cardiac Mitochondria During Hypoxia/Reoxygenation. <i>Circulation Research</i> , 2008, 103, 873-880.	2.0	115
46	Chemical Biology: Past, Present and Future. <i>Current Chemical Biology</i> , 2008, 2, 278-311.	0.2	2
47	Exercise-Induced Oxidative Stress: Cellular Mechanisms and Impact on Muscle Force Production. <i>Physiological Reviews</i> , 2008, 88, 1243-1276.	13.1	1,784
48	The Mitochondrial Superoxide/Thioredoxin-2/Ask1 Signaling Pathway is Critically Involved in Troglitazone-Induced Cell Injury to Human Hepatocytes. <i>Toxicological Sciences</i> , 2008, 101, 341-349.	1.4	68
49	15-deoxy- $\hat{\nu}$ 12,14-PGJ2 enhances platelet production from megakaryocytes. <i>Blood</i> , 2008, 112, 4051-4060.	0.6	92
50	The Scale-Free Dynamics of Eukaryotic Cells. <i>PLoS ONE</i> , 2008, 3, e3624.	1.1	66
51	Hydrogen in Drinking Water Reduces Dopaminergic Neuronal Loss in the 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine Mouse Model of Parkinson's Disease. <i>PLoS ONE</i> , 2009, 4, e7247.	1.1	170
52	Decreased mitochondrial superoxide levels and enhanced protection against paraquat in <i>Drosophila melanogaster</i> supplemented with <i>Rhodiola rosea</i> . <i>Free Radical Research</i> , 2009, 43, 836-843.	1.5	51
53	Overexpression of Methionine Sulfoxide Reductases A and B2 Protects MOLT-4 Cells Against Zinc-Induced Oxidative Stress. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 215-226.	2.5	35
54	NMDA Receptor Activation Increases Free Radical Production through Nitric Oxide and NOX2. <i>Journal of Neuroscience</i> , 2009, 29, 2545-2552.	1.7	224

#	ARTICLE	IF	CITATIONS
55	Unraveling $\gamma$ -1-Pyrroline-5-Carboxylate-Proline Cycle in Plants by Uncoupled Expression of Proline Oxidation Enzymes. <i>Journal of Biological Chemistry</i> , 2009, 284, 26482-26492.	1.6	239
56	Mitochondrial Reactive Oxygen Species Production in Excitable Cells: Modulators of Mitochondrial and Cell Function. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 1373-1414.	2.5	409
57	Underlying mitochondrial dysfunction triggers flutamide-induced oxidative liver injury in a mouse model of idiosyncratic drug toxicity. <i>Toxicology and Applied Pharmacology</i> , 2009, 238, 150-159.	1.3	90
58	Withdrawal of fenofibrate treatment partially abrogates preventive neuroprotection in stroke via loss of vascular protection. <i>Vascular Pharmacology</i> , 2009, 51, 323-330.	1.0	24
59	HPLC study of oxidation products of hydroethidine in chemical and biological systems: ramifications in superoxide measurements. <i>Free Radical Biology and Medicine</i> , 2009, 46, 329-338.	1.3	136
60	Ultrafine particles from diesel engines induce vascular oxidative stress via JNK activation. <i>Free Radical Biology and Medicine</i> , 2009, 46, 775-782.	1.3	81
61	Qualitative determination of superoxide release at both sides of the mitochondrial inner membrane by capillary electrophoretic analysis of the oxidation products of triphenylphosphonium hydroethidine. <i>Free Radical Biology and Medicine</i> , 2009, 46, 905-913.	1.3	37
63	Targeting Mitochondria with Organelle-specific Compounds: Strategies and Applications. <i>ChemBioChem</i> , 2009, 10, 1939-1950.	1.3	289
64	Expression of the alternative oxidase complements cytochrome <i>c</i> oxidase deficiency in human cells. <i>EMBO Molecular Medicine</i> , 2009, 1, 30-36.	3.3	89
65	Hydrocyanines: A Class of Fluorescent Sensors That Can Image Reactive Oxygen Species in Cell Culture, Tissue, and In Vivo. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 299-303.	7.2	308
66	Long-Term Exposure to AZT, but not d4T, Increases Endothelial Cell Oxidative Stress and Mitochondrial Dysfunction. <i>Cardiovascular Toxicology</i> , 2009, 9, 1-12.	1.1	42
67	Viable neutrophils release mitochondrial DNA to form neutrophil extracellular traps. <i>Cell Death and Differentiation</i> , 2009, 16, 1438-1444.	5.0	789
68	NADPH oxidase is the primary source of superoxide induced by NMDA receptor activation. <i>Nature Neuroscience</i> , 2009, 12, 857-863.	7.1	466
69	Synthesis of a mitochondria-targeted spin trap using a novel Parham-type cyclization. <i>Tetrahedron</i> , 2009, 65, 8154-8160.	1.0	29
70	Quenching and generation of singlet oxygen by hydroethidine and related chromophores. <i>Chemical Physics Letters</i> , 2009, 475, 116-119.	1.2	12
71	How mitochondria produce reactive oxygen species. <i>Biochemical Journal</i> , 2009, 417, 1-13.	1.7	6,321
72	Generation of reactive oxygen species during pollen grain germination. <i>Russian Journal of Developmental Biology</i> , 2009, 40, 345-353.	0.1	32
73	Hydrogen Peroxide Is a Second Messenger in Phase 2 Enzyme Induction by Cancer Chemopreventive Dithiolethiones. <i>Chemical Research in Toxicology</i> , 2009, 22, 1427-1434.	1.7	28

#	ARTICLE	IF	CITATIONS
74	Leucine-Rich Repeat Kinase 2 Regulates the Progression of Neuropathology Induced by Parkinson's-Disease-Related Mutant $\alpha$ -synuclein. <i>Neuron</i> , 2009, 64, 807-827.	3.8	459
75	Oxidative stress and cardiovascular disease: Novel tools give (free) radical insight. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 47, 372-381.	0.9	288
76	Analytical methods to assess nanoparticle toxicity. <i>Analyst</i> , The, 2009, 134, 425.	1.7	367
77	Revealing acupuncture meridian-like system by reactive oxygen species visualization. <i>Bioscience Hypotheses</i> , 2009, 2, 443-445.	0.2	10
78	Reactive Oxygen Species Production by Mitochondria. <i>Methods in Molecular Biology</i> , 2009, 554, 165-181.	0.4	282
79	Mitochondrial DNA. <i>Methods in Molecular Biology</i> , 2009, , .	0.4	5
80	Redox Regulation of Tumor Necrosis Factor Signaling. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 2245-2263.	2.5	153
81	Mitochondrial superoxide plays a crucial role in the development of mitochondrial dysfunction during high glucose exposure in rat renal proximal tubular cells. <i>Free Radical Biology and Medicine</i> , 2009, 46, 1149-1157.	1.3	93
82	Toxicity of therapeutic nanoparticles. <i>Nanomedicine</i> , 2009, 4, 219-241.	1.7	79
83	Reactive Oxygen Species, Cancer and Anti-Cancer Therapies. <i>Current Chemical Biology</i> , 2009, 3, 342-366.	0.2	138
84	Enhanced superoxide and hydrogen peroxide detection in biological assays. <i>Free Radical Biology and Medicine</i> , 2010, 49, 61-66.	1.3	40
85	Detection and manipulation of mitochondrial reactive oxygen species in mammalian cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1034-1044.	0.5	133
86	Superoxide anion and proteasomal dysfunction contribute to curcumin-induced paraptosis of malignant breast cancer cells. <i>Free Radical Biology and Medicine</i> , 2010, 48, 713-726.	1.3	108
87	Impairment of mitochondrial respiratory chain activity in aortic endothelial cells induced by glycated low-density lipoprotein. <i>Free Radical Biology and Medicine</i> , 2010, 48, 781-790.	1.3	32
88	Oxidative stress in skeletal muscle stimulates early expression of Rad in a mouse model of amyotrophic lateral sclerosis. <i>Free Radical Biology and Medicine</i> , 2010, 48, 915-923.	1.3	57
89	Hydroethidine- and MitoSOX-derived red fluorescence is not a reliable indicator of intracellular superoxide formation: Another inconvenient truth. <i>Free Radical Biology and Medicine</i> , 2010, 48, 983-1001.	1.3	433
90	Reactive oxygen species: A radical role in development?. <i>Free Radical Biology and Medicine</i> , 2010, 49, 130-143.	1.3	169
91	Pluronic-modified superoxide dismutase 1 attenuates angiotensin II-induced increase in intracellular superoxide in neurons. <i>Free Radical Biology and Medicine</i> , 2010, 49, 548-558.	1.3	49

#	ARTICLE	IF	CITATIONS
92	Epigallocatechin-3-gallate inhibits mast cell degranulation, leukotriene C4 secretion, and calcium influx via mitochondrial calcium dysfunction. <i>Free Radical Biology and Medicine</i> , 2010, 49, 632-640.	1.3	24
93	Role of mitochondrial-derived oxidants in renal tubular cell cold-storage injury. <i>Free Radical Biology and Medicine</i> , 2010, 49, 1273-1282.	1.3	40
95	Demethyl fruticulin A (SCOâ€1) causes apoptosis by inducing reactive oxygen species in mitochondria. <i>Journal of Cellular Biochemistry</i> , 2010, 111, 1149-1159.	1.2	11
96	Nitric oxideâ€mediated augmentation of neutrophil reactive oxygen and nitrogen species formation: Critical use of probes. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2010, 77A, 1038-1048.	1.1	26
97	Synthesis and Evaluation of Pseudopeptidic Fluorescence pH Probes for Acidic Cellular Organelles: In Vivo Monitoring of Bacterial Phagocytosis by Multiparametric Flow Cytometry. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 5967-5979.	1.2	20
98	A Triphenylphosphoniumâ€Functionalised Cyclometalated Platinum(II) Complex as a Nucleolusâ€Specific Twoâ€Photon Molecular Dye. <i>Chemistry - A European Journal</i> , 2010, 16, 3942-3950.	1.7	62
100	A Significant Improvement of the Efficacy of Radical Oxidant Probes by the Kinetic Isotope Effect. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6134-6138.	7.2	51
101	The attenuation of central angiotensin II-dependent pressor response and intra-neuronal signaling by intracarotid injection of nanoformulated copper/zinc superoxide dismutase. <i>Biomaterials</i> , 2010, 31, 5218-5226.	5.7	70
102	Mitochondrial-targeted fluorescent probes for reactive oxygen species. <i>Current Opinion in Chemical Biology</i> , 2010, 14, 50-56.	2.8	288
103	Enhanced oxidative stress and increased mitochondrial mass during Efavirenzâ€induced apoptosis in human hepatic cells. <i>British Journal of Pharmacology</i> , 2010, 160, 2069-2084.	2.7	138
104	Neuroprotection against superoxide anion radical by metallocorroles in cellular and murine models of optic neuropathy. <i>Journal of Neurochemistry</i> , 2010, 114, 488-498.	2.1	72
105	Vascular oxidative stress and inflammation increase with age: ameliorating effects of Î±â€lipoic acid supplementation. <i>Annals of the New York Academy of Sciences</i> , 2010, 1203, 151-159.	1.8	27
106	Disruption of Astrocyte STAT3 Signaling Decreases Mitochondrial Function and Increases Oxidative Stress In Vitro. <i>PLoS ONE</i> , 2010, 5, e9532.	1.1	138
107	Effects of extensively oxidized low-density lipoprotein on mitochondrial function and reactive oxygen species in porcine aortic endothelial cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 298, E89-E98.	1.8	47
108	Bax Regulates Production of Superoxide in Both Apoptotic and Nonapoptotic Neurons: Role of Caspases. <i>Journal of Neuroscience</i> , 2010, 30, 16114-16127.	1.7	39
109	Angiotensin II Type 1 Receptor-Dependent Oxidative Stress Mediates Endothelial Dysfunction in Type 2 Diabetic Mice. <i>Antioxidants and Redox Signaling</i> , 2010, 13, 757-768.	2.5	54
110	NOX2 Deficiency Protects Against Streptozotocin-Induced Î²-Cell Destruction and Development of Diabetes in Mice. <i>Diabetes</i> , 2010, 59, 2603-2611.	0.3	60
111	A Mitochondrial Superoxide Signal Triggers Increased Longevity in <i>Caenorhabditis elegans</i> . <i>PLoS Biology</i> , 2010, 8, e1000556.	2.6	519

#	ARTICLE	IF	CITATIONS
112	Elevated mitochondrial superoxide contributes to enhanced chemoreflex in heart failure rabbits. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 298, R303-R311.	0.9	37
113	The Oxygen Tension Modulates Acetaminophen-Induced Mitochondrial Oxidant Stress and Cell Injury in Cultured Hepatocytes. <i>Toxicological Sciences</i> , 2010, 117, 515-523.	1.4	81
114	Nutrient Availability as a Mechanism for Selection of Antibiotic Tolerant <i>Pseudomonas aeruginosa</i> within the CF Airway. <i>PLoS Pathogens</i> , 2010, 6, e1000712.	2.1	119
115	Superoxide is an associated signal for apoptosis in axonal injury. <i>Brain</i> , 2010, 133, 2612-2625.	3.7	107
116	Nrf2 Signaling, a Mechanism for Cellular Stress Resistance in Long-Lived Mice. <i>Molecular and Cellular Biology</i> , 2010, 30, 871-884.	1.1	123
117	Mitochondria-produced superoxide mediates angiotensin II-induced inhibition of neuronal potassium current. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 298, C857-C865.	2.1	55
118	Asymmetric superoxide release inside and outside the mitochondria in skeletal muscle under conditions of aging and disuse. <i>Journal of Applied Physiology</i> , 2010, 109, 1133-1139.	1.2	13
119	Nimesulide-Induced Electrophile Stress Activates Nrf2 in Human Hepatocytes and Mice but Is Not Sufficient to Induce Hepatotoxicity in Nrf2-Deficient Mice. <i>Chemical Research in Toxicology</i> , 2010, 23, 967-976.	1.7	5
120	Analysis of Superoxide Production in Single Skeletal Muscle Fibers. <i>Analytical Chemistry</i> , 2010, 82, 4570-4576.	3.2	18
121	Chemical Cytometry Quantitates Superoxide Levels in the Mitochondrial Matrix of Single Myoblasts. <i>Analytical Chemistry</i> , 2010, 82, 6745-6750.	3.2	8
122	Rapid uptake of lipophilic triphenylphosphonium cations by mitochondria in vivo following intravenous injection: Implications for mitochondria-specific therapies and probes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2010, 1800, 1009-1017.	1.1	101
123	Sperm viability, apoptosis, and intracellular reactive oxygen species levels in human spermatozoa before and after induction of oxidative stress. <i>Fertility and Sterility</i> , 2010, 93, 814-821.	0.5	142
124	Pathways involved in the generation of reactive oxygen and nitrogen species during glucose deprivation and its role on the death of cultured hippocampal neurons. <i>Neuroscience</i> , 2010, 167, 1057-1069.	1.1	41
125	A Palette of Fluorescent Probes with Varying Emission Colors for Imaging Hydrogen Peroxide Signaling in Living Cells. <i>Journal of the American Chemical Society</i> , 2010, 132, 5906-5915.	6.6	477
126	l-Arginine is a Radioprotector for Hematopoietic Progenitor Cells. <i>Radiation Research</i> , 2011, 177, 792.	0.7	6
127	Redox Regulation of the Intrinsic Pathway in Neuronal Apoptosis. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 1437-1448.	2.5	120
128	Fluorescence-Based Detection and Quantification of Features of Cellular Senescence. <i>Methods in Cell Biology</i> , 2011, 103, 149-188.	0.5	39
129	Assessing Mitochondrial Redox Status by Flow Cytometric Methods: Vascular Response to Fluid Shear Stress. <i>Current Protocols in Cytometry</i> , 2011, 58, Unit9.37.	3.7	13



#	ARTICLE	IF	CITATIONS
130	An Efficient Fluorescence Sensor for Superoxide with an Acridinium Ion-Linked Porphyrin Triad. <i>Journal of the American Chemical Society</i> , 2011, 133, 11092-11095.	6.6	28
131	Unraveling the Biological Roles of Reactive Oxygen Species. <i>Cell Metabolism</i> , 2011, 13, 361-366.	7.2	661
132	A Targetable Fluorescent Sensor Reveals That Copper-Deficient <i>SCO1</i> and <i>SCO2</i> Patient Cells Prioritize Mitochondrial Copper Homeostasis. <i>Journal of the American Chemical Society</i> , 2011, 133, 8606-8616.	6.6	255
133	<i>Stachybotrys microspora</i> triprenyl phenol-7, a novel fibrinolytic agent, suppresses superoxide production, matrix metalloproteinase-9 expression, and thereby attenuates ischemia/reperfusion injury in rat brain. <i>Neuroscience Letters</i> , 2011, 503, 110-114.	1.0	34
134	Altered Mitochondrial Dynamics Contributes to Endothelial Dysfunction in Diabetes Mellitus. <i>Circulation</i> , 2011, 124, 444-453.	1.6	437
135	Is Acupuncture Meridians a Novel System for Superoxide Disposition. , 2011, , .		0
137	Activation of NOX2 by the Stimulation of Ionotropic and Metabotropic Glutamate Receptors Contributes to Glutamate Neurotoxicity In Vivo Through the Production of Reactive Oxygen Species and Calpain Activation. <i>Journal of Neuro pathology and Experimental Neurology</i> , 2011, 70, 1020-1035.	0.9	55
138	Isolated Mitochondrial Complex I Deficiency: Explorative Data Analysis of Patient Cell Parameters. <i>Current Pharmaceutical Design</i> , 2011, 17, 4023-4033.	0.9	28
139	Accelerated aging phenotype in mice with conditional deficiency for mitochondrial superoxide dismutase in the connective tissue. <i>Aging Cell</i> , 2011, 10, 239-254.	3.0	96
140	Nox2 redox signaling maintains essential cell populations in the brain. <i>Nature Chemical Biology</i> , 2011, 7, 106-112.	3.9	248
141	Highly selective in-vivo imaging of tumor as an inflammation site by ROS detection using hydrocyanine-conjugated, functional nano-carriers. <i>Journal of Controlled Release</i> , 2011, 156, 398-405.	4.8	38
142	Elevated mitochondrial superoxide disrupts normal T cell development, impairing adaptive immune responses to an influenza challenge. <i>Free Radical Biology and Medicine</i> , 2011, 50, 448-458.	1.3	92
143	Uncoupling protein-2 attenuates glucose-stimulated insulin secretion in INS-1E insulinoma cells by lowering mitochondrial reactive oxygen species. <i>Free Radical Biology and Medicine</i> , 2011, 50, 609-616.	1.3	76
144	Vitamin B12 protects against superoxide-induced cell injury in human aortic endothelial cells. <i>Free Radical Biology and Medicine</i> , 2011, 51, 876-883.	1.3	83
145	Response to a critical evaluation of cpYFP as a probe for superoxide. <i>Free Radical Biology and Medicine</i> , 2011, 51, 1937-1940.	1.3	32
146	Heat stress leads to superoxide formation in <i>Bacillus cereus</i> detected using the fluorescent probe MitoSOX. <i>International Journal of Food Microbiology</i> , 2011, 151, 119-122.	2.1	22
147	Induction of the intrinsic apoptosis pathway in insulin-secreting cells is dependent on oxidative damage of mitochondria but independent of caspase-12 activation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011, 1813, 1827-1835.	1.9	28
148	Mitochondrial respiratory complex I dysfunction promotes tumorigenesis through ROS alteration and AKT activation. <i>Human Molecular Genetics</i> , 2011, 20, 4605-4616.	1.4	129

#	ARTICLE	IF	CITATIONS
149	Mitochondria-Targeted Small Molecule Therapeutics and Probes. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 3021-3038.	2.5	344
150	Chemistry and biology of reactive oxygen species in signaling or stress responses. <i>Nature Chemical Biology</i> , 2011, 7, 504-511.	3.9	1,461
151	Fluorescent and luminescent probes for detection of reactive oxygen and nitrogen species. <i>Chemical Society Reviews</i> , 2011, 40, 4783.	18.7	890
152	Withaferin A induces apoptosis in human melanoma cells through generation of reactive oxygen species and down-regulation of Bcl-2. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2011, 16, 1014-1027.	2.2	134
153	Detection of Reactive Oxygen Species in Higher Plants. <i>Journal of Plant Biology</i> , 2011, 54, 351-357.	0.9	31
154	Imaging superoxide flash and metabolism-coupled mitochondrial permeability transition in living animals. <i>Cell Research</i> , 2011, 21, 1295-1304.	5.7	110
155	Genome-Wide Transcriptional and Physiological Responses of <i>Bradyrhizobium japonicum</i> to Paraquat-Mediated Oxidative Stress. <i>Applied and Environmental Microbiology</i> , 2011, 77, 3633-3643.	1.4	30
156	The Mitochondria-Targeted Antioxidant Mitoquinone Protects against Cold Storage Injury of Renal Tubular Cells and Rat Kidneys. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 336, 682-692.	1.3	66
157	Glutamate Transport Decreases Mitochondrial pH and Modulates Oxidative Metabolism in Astrocytes. <i>Journal of Neuroscience</i> , 2011, 31, 3550-3559.	1.7	93
158	Chemical Genetics Analysis of an Aniline Mustard Anticancer Agent Reveals Complex I of the Electron Transport Chain as a Target. <i>Journal of Biological Chemistry</i> , 2011, 286, 33910-33920.	1.6	19
159	Control of Hepatic Nuclear Superoxide Production by Glucose 6-Phosphate Dehydrogenase and NADPH Oxidase-4. <i>Journal of Biological Chemistry</i> , 2011, 286, 8977-8987.	1.6	87
160	Chelation of Lysosomal Iron Protects Dopaminergic SH-SY5Y Neuroblastoma Cells from Hydrogen Peroxide Toxicity by Precluding Autophagy and Akt Dephosphorylation. <i>Toxicological Sciences</i> , 2011, 123, 523-541.	1.4	65
161	Oscillatory Shear Stress Induces Mitochondrial Superoxide Production: Implication of NADPH Oxidase and c-Jun NH <sub>2</sub> -Terminal Kinase Signaling. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 1379-1388.	2.5	52
162	Activation of NAD(P)H Oxidases by Thromboxane A <sub>2</sub> Receptor Uncouples Endothelial Nitric Oxide Synthase. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 125-132.	1.1	51
163	Regulation of Alveolar Epithelial Na <sup>+</sup> Channels by ERK1/2 in Chlorine-Breathing Mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2012, 46, 342-354.	1.4	45
164	Interleukin-6 counteracts therapy-induced cellular oxidative stress in multiple myeloma by up-regulating manganese superoxide dismutase. <i>Biochemical Journal</i> , 2012, 444, 515-527.	1.7	37
165	Boronate Can Be the Fluorogenic Switch for the Detection of Hydrogen Peroxide. <i>Current Medicinal Chemistry</i> , 2012, 19, 3622-3634.	1.2	8
166	Tryptamine-Gallic Acid Hybrid Prevents Non-steroidal Anti-inflammatory Drug-induced Gastropathy. <i>Journal of Biological Chemistry</i> , 2012, 287, 3495-3509.	1.6	23

#	ARTICLE	IF	CITATIONS
167	SOD Mimetics: A Novel Class of Androgen Receptor Inhibitors That Suppresses Castration-Resistant Growth of Prostate Cancer. <i>Molecular Cancer Therapeutics</i> , 2012, 11, 87-97.	1.9	32
169	Miglitol, an Anti-diabetic Drug, Inhibits Oxidative Stress-Induced Apoptosis and Mitochondrial ROS Over-Production in Endothelial Cells by Enhancement of AMP-Activated Protein Kinase. <i>Journal of Pharmacological Sciences</i> , 2012, 120, 121-128.	1.1	22
170	Mitochondrial redox signalling at a glance. <i>Journal of Cell Science</i> , 2012, 125, 801-806.	1.2	225
171	Hyperglycemia Accentuates Persistent Functional Uncoupling of Cerebral Microvascular Nitric Oxide and Superoxide Following Focal Ischemia/Reperfusion in Rats. <i>Translational Stroke Research</i> , 2012, 3, 482-490.	2.3	22
172	Detection of reactive oxygen species derived from the family of NOX NADPH oxidases. <i>Free Radical Biology and Medicine</i> , 2012, 53, 1903-1918.	1.3	130
173	Apolipoprotein E Genotype-Dependent Paradoxical Short-Term Effects of <sup>56</sup> Fe Irradiation on the Brain. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 84, 793-799.	0.4	44
174	Patient-derived fibroblasts indicate oxidative stress status and may justify antioxidant therapy in OXPHOS disorders. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1971-1978.	0.5	28
175	Measuring mitochondrial function in intact cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 48-61.	0.9	97
176	Mitochondrial dysfunction, a probable cause of persistent oxidative stress after exposure to ionizing radiation. <i>Free Radical Research</i> , 2012, 46, 147-153.	1.5	146
177	Fluorescence-Activated Cell Sorting Analysis of Mitochondrial Content, Membrane Potential, and Matrix Oxidant Burden in Human Lymphoblastoid Cell Lines. <i>Methods in Molecular Biology</i> , 2012, 837, 231-239.	0.4	41
178	Mitochondrial Thioredoxin-Responding Off-On Fluorescent Probe. <i>Journal of the American Chemical Society</i> , 2012, 134, 17314-17319.	6.6	151
179	Development of Oxidative Stress in the Peritubular Capillary Microenvironment Mediates Sepsis-Induced Renal Microcirculatory Failure and Acute Kidney Injury. <i>American Journal of Pathology</i> , 2012, 180, 505-516.	1.9	136
180	A mitochondrial etiology of Alzheimer and Parkinson disease. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 553-564.	1.1	268
181	Superoxide signaling and cell death in retinal ganglion cell axotomy: Effects of metalocorroles. <i>Experimental Eye Research</i> , 2012, 97, 31-35.	1.2	21
182	A ratiometric fluorescent probe for assessing mitochondrial phospholipid peroxidation within living cells. <i>Free Radical Biology and Medicine</i> , 2012, 53, 544-553.	1.3	63
183	Novel mitochondria-targeted compounds composed of natural constituents: Conjugates of plant alkaloids berberine and palmatine with plastoquinone. <i>Biochemistry (Moscow)</i> , 2012, 77, 983-995.	0.7	14
184	Mitochondrial redox signalling at a glance. <i>Journal of Cell Science</i> , 2012, 125, 1837-1837.	1.2	16
185	Role of mitochondrial uncoupling protein 2 in cancer cell resistance to gemcitabine. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2012, 1823, 1856-1863.	1.9	70

#	ARTICLE	IF	CITATIONS
187	Neuronal NAD(P)H Oxidases Contribute to ROS Production and Mediate RGC Death after Ischemia. , 2012, 53, 2823.		50
188	Role of Mitochondrial Oxidants in an In Vitro Model of Sepsis-Induced Renal Injury. Journal of Pharmacology and Experimental Therapeutics, 2012, 340, 192-201.	1.3	39
189	Sea urchin spermatozoa generate at least two reactive oxygen species; the type of reactive oxygen species changes under different conditions. Molecular Reproduction and Development, 2012, 79, 283-295.	1.0	14
190	Extension of Drosophila lifespan by Rosa damascena associated with an increased sensitivity to heat. Biogerontology, 2012, 13, 105-117.	2.0	35
191	Investigating the role of melanin in UVA/UVB- and hydrogen peroxide-induced cellular and mitochondrial ROS production and mitochondrial DNA damage in human melanoma cells. Free Radical Biology and Medicine, 2012, 52, 626-634.	1.3	121
192	Succinobucol induces apoptosis in vascular smooth muscle cells. Free Radical Biology and Medicine, 2012, 52, 871-879.	1.3	9
193	Mitochondrial compartmentalization of redox processes. Free Radical Biology and Medicine, 2012, 52, 2201-2208.	1.3	69
194	Î±-Lipoic acid increases tolerance of cardiomyoblasts to glucose/glucose oxidase-induced injury via ROS-dependent ERK1/2 activation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 920-929.	1.9	24
195	Hydrogen sulfide-releasing aspirin suppresses NF-Î²B signaling in estrogen receptor negative breast cancer cells in vitro and in vivo. Biochemical Pharmacology, 2012, 83, 723-732.	2.0	83
196	Sporopollenin accumulation in Nicotiana tabacum L. microspore wall during its development. Cell and Tissue Biology, 2012, 6, 293-301.	0.2	4
197	D,L-Î±-sulforaphane-induced apoptosis in human breast cancer cells is regulated by the adapter protein p66<sup>Shc</sup>. Journal of Cellular Biochemistry, 2012, 113, 599-610.	1.2	32
198	Imaging ROS signaling in cells and animals. Journal of Molecular Medicine, 2013, 91, 917-927.	1.7	142
199	Phosphoinositide 3-kinase couples NMDA receptors to superoxide release in excitotoxic neuronal death. Cell Death and Disease, 2013, 4, e580-e580.	2.7	67
200	Principles of Bioenergetics. , 2013, , .		33
201	Real-Time Monitoring of Reactive Oxygen and Nitrogen Species in a Multiwell Plate Using the Diagnostic Marker Products of Specific Probes. Methods in Enzymology, 2013, 526, 145-157.	0.4	24
202	Protective effect of albiflorin against oxidative-stress-mediated toxicity in osteoblast-like MC3T3-E1 cells. FÃ¼rtherapÃ¼r, 2013, 89, 33-41.	1.1	39
203	A Microfluidic Systems Biology Approach for Live Single-Cell Mitochondrial ROS Imaging. Methods in Enzymology, 2013, 526, 219-230.	0.4	7
204	P-glycoprotein (Mdr1a/1b) and breast cancer resistance protein (Bcrp) decrease the uptake of hydrophobic alkyl triphenylphosphonium cations by the brain. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 3458-3465.	1.1	21

#	ARTICLE	IF	CITATIONS
205	Metal-enhanced fluorescence based excitation volumetric effect of plasmon-enhanced singlet oxygen and super oxide generation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15740.	1.3	21
206	Molecular Imaging: Chemistry and Applications. , 2013, , 733-780.		0
207	Fluorescent Imaging of Redox Species in Multicellular Organisms. , 2013, , 119-155.		6
208	Recent advances in reactive oxygen species measurement in biological systems. <i>Trends in Biochemical Sciences</i> , 2013, 38, 556-565.	3.7	153
209	Mitochondria-Targeted Reaction-Based Two-Photon Fluorescent Probe for Imaging of Superoxide Anion in Live Cells and in Vivo. <i>Analytical Chemistry</i> , 2013, 85, 9877-9881.	3.2	112
210	Dual-Targeting Pro-apoptotic Peptide for Programmed Cancer Cell Death via Specific Mitochondria Damage. <i>Scientific Reports</i> , 2013, 3, 3468.	1.6	85
211	Synthetic fluorescent probes for monovalent copper. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 656-662.	2.8	83
212	Changes of Reactive Oxygen and Nitrogen Species and Mitochondrial Functioning in Human K562 and HL60 Cells Exposed to Ionizing Radiation. <i>Radiation Research</i> , 2013, 180, 360-366.	0.7	40
213	A novel functional imidazole fluorescent ionic liquid: simple and efficient fluorescent probes for superoxide anion radicals. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 9563-9570.	1.9	15
214	Low-Dose Radiation-Induced Enhancement of Thymic Lymphomagenesis in Lck-Bax Mice is Dependent on LET and Gender. <i>Radiation Research</i> , 2013, 180, 156-165.	0.7	5
215	Burst of succinate dehydrogenase and $\alpha$ -ketoglutarate dehydrogenase activity in concert with the expression of genes coding for respiratory chain proteins underlies short-term beneficial physiological stress in mitochondria. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 190-200.	1.2	17
216	Hydropropidine: A novel, cell-impermeant fluorogenic probe for detecting extracellular superoxide. <i>Free Radical Biology and Medicine</i> , 2013, 54, 135-147.	1.3	42
217	Mitochondrial accumulation of a lipophilic cation conjugated to an ionisable group depends on membrane potential, pH gradient and pK a: implications for the design of mitochondrial probes and therapies. <i>Journal of Bioenergetics and Biomembranes</i> , 2013, 45, 165-173.	1.0	52
218	Iron Chelators with Topoisomerase-Inhibitory Activity and Their Anticancer Applications. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 930-955.	2.5	34
219	<i>Trypanosoma cruzi</i> Antioxidant Enzymes As Virulence Factors in Chagas Disease. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 723-734.	2.5	97
220	Rapid and Specific Measurements of Superoxide Using Fluorescence Spectroscopy. <i>Journal of Biomolecular Screening</i> , 2013, 18, 498-503.	2.6	107
221	Analysis of Kinetics of Dihydroethidium Fluorescence with Superoxide Using Xanthine Oxidase and Hypoxanthine Assay. <i>Annals of Biomedical Engineering</i> , 2013, 41, 327-337.	1.3	65
222	Luminescent Chemodosimeters for Bioimaging. <i>Chemical Reviews</i> , 2013, 113, 192-270.	23.0	2,049

#	ARTICLE	IF	CITATIONS
223	Nox2 as a potential target of mitochondrial superoxide and its role in endothelial oxidative stress. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H1131-H1140.	1.5	90
224	Mitochondrial superoxide mediates mitochondrial and endoplasmic reticulum dysfunctions in TRAIL-induced apoptosis in Jurkat cells. Free Radical Biology and Medicine, 2013, 61, 273-284.	1.3	57
225	The novel <sc>NOX</sc> inhibitor 2- <i>N</i> -acetylphenothiazine impairs collagen- $\alpha$ 2(I)-dependent thrombus formation in a <sc>GPVI</sc>-dependent manner. British Journal of Pharmacology, 2013, 168, 212-224.	2.7	64
226	Synergistic Triggering of Superoxide Flashes by Mitochondrial Ca <sup>2+</sup> Uniport and Basal Reactive Oxygen Species Elevation. Journal of Biological Chemistry, 2013, 288, 4602-4612.	1.6	80
227	Readily Accessible Fluorescent Probes for Sensitive Biological Imaging of Hydrogen Peroxide. ChemBioChem, 2013, 14, 593-598.	1.3	26
228	Methods for Assessing Mitochondrial Function in Diabetes. Diabetes, 2013, 62, 1041-1053.	0.3	142
229	Compartmentalized oxidative stress in dopaminergic cell death induced by pesticides and complex I inhibitors: Distinct roles of superoxide anion and superoxide dismutases. Free Radical Biology and Medicine, 2013, 61, 370-383.	1.3	65
230	Protective roles of ascorbic acid in oxidative stress induced by depletion of superoxide dismutase in vertebrate cells. Free Radical Research, 2013, 47, 1-7.	1.5	41
231	Mitochondrial susceptibility in a model of paraquat neurotoxicity. Free Radical Research, 2013, 47, 614-623.	1.5	17
232	Contributions of Academic Laboratories to the Discovery and Development of Chemical Biology Tools. Journal of Medicinal Chemistry, 2013, 56, 7161-7176.	2.9	39
233	Molecular Imaging of Retinal Disease. Journal of Ocular Pharmacology and Therapeutics, 2013, 29, 275-286.	0.6	18
234	Dissecting the molecular mechanism by which NH <sub>2</sub> tau and A $\beta$ <sup>1-42</sup> peptides impair mitochondrial ANT-1 in Alzheimer disease. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 848-860.	0.5	16
235	Insulin mediated DNA damage in mammalian colon cells and human lymphocytes in vitro. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2013, 745-746, 34-39.	0.4	40
236	Preparation and use of MitoPY1 for imaging hydrogen peroxide in mitochondria of live cells. Nature Protocols, 2013, 8, 1249-1259.	5.5	144
237	Sensitivity of activatable reactive oxygen species probes by fluorescence spectroelectrochemistry. Analyst, The, 2013, 138, 4363.	1.7	20
238	Oxidative stress in acute pancreatitis: lost in translation?. Free Radical Research, 2013, 47, 917-933.	1.5	51
239	Manganese superoxide dismutase depletion in murine hematopoietic stem cells perturbs iron homeostasis, globin switching, and epigenetic control in erythrocyte precursor cells. Free Radical Biology and Medicine, 2013, 56, 17-27.	1.3	33
240	Fluorogenic $\alpha$ -Tocopherol Analogue for Monitoring the Antioxidant Status within the Inner Mitochondrial Membrane of Live Cells. Journal of the American Chemical Society, 2013, 135, 17135-17143.	6.6	70

#	ARTICLE	IF	CITATIONS
241	Role of the NADPH Oxidases in the Subfornical Organ in Angiotensin II-Induced Hypertension. <i>Hypertension</i> , 2013, 61, 382-387.	1.3	95
242	COX-1-derived PGE2 and PGE2 type 1 receptors are vital for angiotensin II-induced formation of reactive oxygen species and Ca <sup>2+</sup> influx in the subfornical organ. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H1451-H1461.	1.5	33
243	Mitochondrial-localized NADPH oxidase 4 is a source of superoxide in angiotensin II-stimulated neurons. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H19-H28.	1.5	90
244	Novel insights into pancreatic $\beta$ -cell glucolipotoxicity from real-time functional analysis of mitochondrial energy metabolism in INS-1E insulinoma cells. <i>Biochemical Journal</i> , 2013, 456, 417-426.	1.7	50
245	Invadolysin, a conserved lipid droplet-associated metalloprotease, is required for mitochondrial function in <i>Drosophila</i> . <i>Journal of Cell Science</i> , 2013, 126, 4769-81.	1.2	15
246	Mitochondrial damage revealed by immunoselection for ALS-linked misfolded SOD1. <i>Human Molecular Genetics</i> , 2013, 22, 3947-3959.	1.4	78
247	Confocal Imaging of Single Mitochondrial Superoxide Flashes in Intact Heart or <i>In Vivo</i> . <i>Journal of Visualized Experiments</i> , 2013, , e50818.	0.2	10
248	Respective Contribution of Mitochondrial Superoxide and pH to Mitochondria-targeted Circularly Permuted Yellow Fluorescent Protein (mt-cpYFP) Flash Activity. <i>Journal of Biological Chemistry</i> , 2013, 288, 10567-10577.	1.6	67
250	Studies of Mitochondrial and Nonmitochondrial Sources Implicate Nicotinamide Adenine Dinucleotide Phosphate Oxidase(s) in the Increased Skeletal Muscle Superoxide Generation That Occurs During Contractile Activity. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 603-621.	2.5	207
251	<i>oiwa</i> , a Female Gametophytic Mutant Impaired in a Mitochondrial Manganese-Superoxide Dismutase, Reveals Crucial Roles for Reactive Oxygen Species during Embryo Sac Development and Fertilization in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 1573-1591.	3.1	96
252	Hydrogen peroxide induces cell death in human TRAIL-resistant melanoma through intracellular superoxide generation. <i>International Journal of Oncology</i> , 2013, 42, 863-872.	1.4	60
253	Paranode Abnormalities and Oxidative Stress in Optic Nerve Vulnerable to Secondary Degeneration: Modulation by 670 nm Light Treatment. <i>PLoS ONE</i> , 2013, 8, e66448.	1.1	30
254	Brazilian Green Propolis Suppresses the Hypoxia-Induced Neuroinflammatory Responses by Inhibiting NF- $\kappa$ B Activation in Microglia. <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-10.	1.9	40
255	The Positive and Negative Aspects of Reactive Oxygen Species in Sports Performance. , 2013, , .		3
256	Tetramethylpyrazine Ameliorates High Glucose-Induced Endothelial Dysfunction by Increasing Mitochondrial Biogenesis. <i>PLoS ONE</i> , 2014, 9, e88243.	1.1	29
257	p-Hydroxyphenylpyruvate, an Intermediate of the Phe/Tyr Catabolism, Improves Mitochondrial Oxidative Metabolism under Stressing Conditions and Prolongs Survival in Rats Subjected to Profound Hemorrhagic Shock. <i>PLoS ONE</i> , 2014, 9, e90917.	1.1	12
258	Skeletal Muscle Contractions Induce Acute Changes in Cytosolic Superoxide, but Slower Responses in Mitochondrial Superoxide and Cellular Hydrogen Peroxide. <i>PLoS ONE</i> , 2014, 9, e96378.	1.1	88
259	Redefining the major contributors to superoxide production in contracting skeletal muscle. The role of NAD(P)H oxidases. <i>Free Radical Research</i> , 2014, 48, 12-29.	1.5	137

#	ARTICLE	IF	CITATIONS
260	Oncogene-induced reactive oxygen species fuel hyperproliferation and DNA damage response activation. <i>Cell Death and Differentiation</i> , 2014, 21, 998-1012.	5.0	254
261	Mitochondrial division inhibitor-1 induces mitochondrial hyperfusion and sensitizes human cancer cells to TRAIL-induced apoptosis. <i>International Journal of Oncology</i> , 2014, 45, 1901-1912.	1.4	43
262	Novel Mn-SOD Mimetics Offer Superior Protection Against Oxidative Damages in Hek293 Kidney Cells. <i>Journal of Pharmaceutical Sciences and Pharmacology</i> , 2014, 1, 146-153.	0.2	1
263	Green Tea Polyphenols Extend the Lifespan of Male <i>Drosophila melanogaster</i> While Impairing Reproductive Fitness. <i>Journal of Medicinal Food</i> , 2014, 17, 1314-1321.	0.8	37
264	Use of Potentiometric Fluorophores in the Measurement of Mitochondrial Reactive Oxygen Species. <i>Methods in Enzymology</i> , 2014, 547, 225-250.	0.4	62
265	p53 <sup>Δ</sup> is a transcriptionally inactive p53 isoform able to reprogram cells toward a metastatic-like state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3287-96.	3.3	73
266	Production of superoxide from Photosystem II in a rice ( <i>Oryza sativa</i> L.) mutant lacking PsbS. <i>BMC Plant Biology</i> , 2014, 14, 242.	1.6	83
267	Reactive oxygen species and redox compartmentalization. <i>Frontiers in Physiology</i> , 2014, 5, 285.	1.3	140
268	SLC25A23 augments mitochondrial Ca <sup>2+</sup> uptake, interacts with MCU, and induces oxidative stress-mediated cell death. <i>Molecular Biology of the Cell</i> , 2014, 25, 936-947.	0.9	118
269	TRANSLOCASE OF THE INNER MEMBRANE9 and 10 Are Essential for Maintaining Mitochondrial Function during Early Embryo Cell and Endosperm Free Nucleus Divisions in Arabidopsis. <i>Plant Physiology</i> , 2014, 166, 853-868.	2.3	70
270	Nod-Like Receptor X-1 Is Required for Rhinovirus-Induced Barrier Dysfunction in Airway Epithelial Cells. <i>Journal of Virology</i> , 2014, 88, 3705-3718.	1.5	66
271	Methods for Detection of Mitochondrial and Cellular Reactive Oxygen Species. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 372-382.	2.5	483
272	The challenges of using fluorescent probes to detect and quantify specific reactive oxygen species in living cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 730-738.	1.1	337
273	Design Strategies for Water-Soluble Small Molecular Chromogenic and Fluorogenic Probes. <i>Chemical Reviews</i> , 2014, 114, 590-659.	23.0	1,562
274	Induction of bystander effects by UVA, UVB, and UVC radiation in human fibroblasts and the implication of reactive oxygen species. <i>Free Radical Biology and Medicine</i> , 2014, 68, 278-287.	1.3	107
275	TRPM2 Channels Protect against Cardiac Ischemia-Reperfusion Injury. <i>Journal of Biological Chemistry</i> , 2014, 289, 7615-7629.	1.6	78
276	Mitochondrial pathology: stress signals from the energy factory. <i>Trends in Molecular Medicine</i> , 2014, 20, 282-292.	3.5	121
277	Origin of the phagocytic respiratory burst and its role in gut epithelial phagocytosis in a basal chordate. <i>Free Radical Biology and Medicine</i> , 2014, 70, 54-67.	1.3	18



#	ARTICLE	IF	CITATIONS
278	A novel small molecule that induces oxidative stress and selectively kills malignant cells. <i>Free Radical Biology and Medicine</i> , 2014, 68, 110-121.	1.3	6
279	A transient increase in lipid peroxidation primes preadipocytes for delayed mitochondrial inner membrane permeabilization and ATP depletion during prolonged exposure to fatty acids. <i>Free Radical Biology and Medicine</i> , 2014, 67, 330-341.	1.3	15
280	HPLC-based monitoring of products formed from hydroethidine-based fluorogenic probes – The ultimate approach for intra- and extracellular superoxide detection. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 739-744.	1.1	96
281	Using exomarkers to assess mitochondrial reactive species in vivo. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 923-930.	1.1	55
282	Oxidative stress parameters induced by exposure to either cadmium or 17 $\beta$ -estradiol on <i>Mytilus galloprovincialis</i> hemocytes. The role of signaling molecules. <i>Aquatic Toxicology</i> , 2014, 146, 186-195.	1.9	47
283	Methods to Monitor ROS Production by Fluorescence Microscopy and Fluorometry. <i>Methods in Enzymology</i> , 2014, 542, 243-262.	0.4	253
284	Preparation and functionalization of a visible-light-excited europium complex-modified luminescent protein for cell imaging applications. <i>Analyst, The</i> , 2014, 139, 1162.	1.7	13
285	When self-assembly meets biology: luminescent platinum complexes for imaging applications. <i>Chemical Society Reviews</i> , 2014, 43, 4144-4166.	18.7	297
286	Neutrophil granulocytes recruited upon translocation of intestinal bacteria enhance graft-versus-host disease via tissue damage. <i>Nature Medicine</i> , 2014, 20, 648-654.	15.2	241
287	Expanding the Palette of Phenanthridinium Cations. <i>Chemistry - A European Journal</i> , 2014, 20, 3742-3751.	1.7	11
288	Mitochondrial DNA neutrophil extracellular traps are formed after trauma and subsequent surgery. <i>Journal of Critical Care</i> , 2014, 29, 1133.e1-1133.e5.	1.0	133
289	Mitochondria-derived reactive oxygen species mediate caspase-dependent and -independent neuronal deaths. <i>Molecular and Cellular Neurosciences</i> , 2014, 63, 13-23.	1.0	52
290	Carbon-Dot-Based Ratiometric Fluorescent Probe for Imaging and Biosensing of Superoxide Anion in Live Cells. <i>Analytical Chemistry</i> , 2014, 86, 7071-7078.	3.2	207
291	PGC1 $\alpha$ overexpression prevents metabolic alterations and soleus muscle atrophy in hindlimb unloaded mice. <i>Journal of Physiology</i> , 2014, 592, 4575-4589.	1.3	182
292	Intracellular oxidation of hydroethidine: Compartmentalization and cytotoxicity of oxidation products. <i>Free Radical Biology and Medicine</i> , 2014, 75, 60-68.	1.3	13
293	The role of frataxin in fission yeast iron metabolism: Implications for Friedreich's ataxia. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 3022-3033.	1.1	13
294	NADPH oxidase- and mitochondria-derived reactive oxygen species in proinflammatory microglial activation: a bipartisan affair?. <i>Free Radical Biology and Medicine</i> , 2014, 76, 34-46.	1.3	160
295	Mitochondrial bioenergetics and therapeutic intervention in cardiovascular disease. , 2014, 141, 13-20.		22

#	ARTICLE	IF	CITATIONS
296	The synthesis and functional evaluation of a mitochondria-targeted hydrogen sulfide donor, (10-oxo-10-(4-(3-thioxo-3H-1,2-dithiol-5-yl)phenoxy)decyl)triphenylphosphonium bromide (AP39). <i>MedChemComm</i> , 2014, 5, 728-736.	3.5	104
297	Molecular Vehicles for Mitochondrial Chemical Biology and Drug Delivery. <i>ACS Chemical Biology</i> , 2014, 9, 323-333.	1.6	128
298	Novel insights into the antiproliferative effects and synergism of quercetin and menadione in human leukemia Jurkat T cells. <i>Leukemia Research</i> , 2014, 38, 836-849.	0.4	31
299	<i>Drosophila</i> hematopoiesis: Markers and methods for molecular genetic analysis. <i>Methods</i> , 2014, 68, 242-251.	1.9	91
300	On the use of fluorescence lifetime imaging and dihydroethidium to detect superoxide in intact animals and ex vivo tissues: A reassessment. <i>Free Radical Biology and Medicine</i> , 2014, 67, 278-284.	1.3	49
301	Peroxynitrite induced mitochondrial biogenesis following MnSOD knockdown in normal rat kidney (NRK) cells. <i>Redox Biology</i> , 2014, 2, 348-357.	3.9	27
302	$\beta$ 1-Adrenergic blockers exert antioxidant effects, reduce matrix metalloproteinase activity, and improve renovascular hypertension-induced cardiac hypertrophy. <i>Free Radical Biology and Medicine</i> , 2014, 73, 308-317.	1.3	37
303	Crosstalk between mitochondrial ROS and depolarization in the potentiation of TRAIL-induced apoptosis in human tumor cells. <i>International Journal of Oncology</i> , 2014, 44, 616-628.	1.4	44
304	The neuronal nitric oxide synthase inhibitor NANT blocks acetaminophen toxicity and protein nitration in freshly isolated hepatocytes. <i>Free Radical Biology and Medicine</i> , 2015, 89, 750-757.	1.3	37
305	Reactive Oxygen Species, Mitochondria, and Endothelial Cell Death during In Vitro Simulated Dives. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 1362-1371.	0.2	40
306	Distinct effects of TRAIL on the mitochondrial network in human cancer cells and normal cells: role of plasma membrane depolarization. <i>Oncotarget</i> , 2015, 6, 21572-21588.	0.8	30
307	Nitric Oxide-Releasing Aspirin Suppresses NF- $\kappa$ B Signaling in Estrogen Receptor Negative Breast Cancer Cells in Vitro and in Vivo. <i>Molecules</i> , 2015, 20, 12481-12499.	1.7	14
308	Autophagy-Regulated ROS from Xanthine Oxidase Acts as an Early Effector for Triggering Late Mitochondria-Dependent Apoptosis in Cathepsin S-Targeted Tumor Cells. <i>PLoS ONE</i> , 2015, 10, e0128045.	1.1	28
309	Neuroprotective Effects of Alpha-Mangostin on MPP <sup>+</sup> -Induced Apoptotic Cell Death in Neuroblastoma SH-SY5Y Cells. <i>Journal of Toxicology</i> , 2015, 2015, 1-11.	1.4	45
310	Boronate probes for the detection of hydrogen peroxide release from human spermatozoa. <i>Free Radical Biology and Medicine</i> , 2015, 81, 69-76.	1.3	39
311	Teaching the fundamentals of electron transfer reactions in mitochondria and the production and detection of reactive oxygen species. <i>Redox Biology</i> , 2015, 4, 381-398.	3.9	203
312	Intracellular zinc is a critical intermediate in the excitotoxic cascade. <i>Neurobiology of Disease</i> , 2015, 81, 25-37.	2.1	55
313	Endothelial CD36 Contributes to Postischemic Brain Injury by Promoting Neutrophil Activation via CSF3. <i>Journal of Neuroscience</i> , 2015, 35, 14783-14793.	1.7	48

#	ARTICLE	IF	CITATIONS
314	Nmdmc overexpression extends Drosophila lifespan and reduces levels of mitochondrial reactive oxygen species. <i>Biochemical and Biophysical Research Communications</i> , 2015, 465, 845-850.	1.0	19
315	Complex I and complex III inhibition specifically increase cytosolic hydrogen peroxide levels without inducing oxidative stress in HEK293 cells. <i>Redox Biology</i> , 2015, 6, 607-616.	3.9	60
316	Uncoupling protein-2 attenuates palmitoleate protection against the cytotoxic production of mitochondrial reactive oxygen species in INS-1E insulinoma cells. <i>Redox Biology</i> , 2015, 4, 14-22.	3.9	19
317	Mitochondrial dysfunction in primary human fibroblasts triggers an adaptive cell survival program that requires AMPK- $\beta$ . <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 529-540.	1.8	40
318	Mitochondria and NADPH oxidases are the major sources of TNF- $\beta$ /cycloheximide-induced oxidative stress in murine intestinal epithelial MODE-K cells. <i>Cellular Signalling</i> , 2015, 27, 1141-1158.	1.7	22
319	A dual response near-infrared fluorescent probe for hydrogen polysulfides and superoxide anion detection in cells and in vivo. <i>Biomaterials</i> , 2015, 63, 93-101.	5.7	153
320	Superoxide anion radical ( $\text{O}_2^{\cdot-}$ ) in human astrocytoma cell line (CCF-STTG1). <i>Chemico-Biological Interactions</i> , 2015, 239, 46-55.	1.7	15
321	Indirect detection of superoxide in RAW 264.7 macrophage cells using microchip electrophoresis coupled to laser-induced fluorescence. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7003-7012.	1.9	33
322	Antioxidant potential of CORM-A1 and resveratrol during TNF- $\beta$ /cycloheximide-induced oxidative stress and apoptosis in murine intestinal epithelial MODE-K cells. <i>Toxicology and Applied Pharmacology</i> , 2015, 288, 161-178.	1.3	38
323	Targeted fluorescent probes for detection of oxidative stress in the mitochondria. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 3476-3480.	1.0	13
324	Low micromolar concentrations of the superoxide probe MitoSOX uncouple neural mitochondria and inhibit complex IV. <i>Free Radical Biology and Medicine</i> , 2015, 86, 250-258.	1.3	60
325	Fluorescent Probe HKSOX-1 for Imaging and Detection of Endogenous Superoxide in Live Cells and In Vivo. <i>Journal of the American Chemical Society</i> , 2015, 137, 6837-6843.	6.6	235
326	Optical studies of oxidative stress in pulmonary artery endothelial cells. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
327	Activation of the Nrf2-regulated antioxidant cell response inhibits HEMA-induced oxidative stress and supports cell viability. <i>Biomaterials</i> , 2015, 56, 114-128.	5.7	84
328	Mitochondrial Medicine. <i>Methods in Molecular Biology</i> , 2015, , .	0.4	4
329	Elucidating the relationship between superoxide anion levels and lifespan using an enhanced two-photon fluorescence imaging probe. <i>Chemical Communications</i> , 2015, 51, 9710-9713.	2.2	34
330	A mitochondrion targeting fluorescent probe for imaging of intracellular superoxide radicals. <i>Chemical Communications</i> , 2015, 51, 7931-7934.	2.2	56
331	Imaging mitochondrial reactive oxygen species with fluorescent probes: Current applications and challenges. <i>Free Radical Research</i> , 2015, 49, 374-382.	1.5	37

#	ARTICLE	IF	CITATIONS
332	Oxidative Stress Biomarkers and ROS Molecular Probes. ACS Symposium Series, 2015, , 353-374.	0.5	2
333	Reliability of ROS and RNS detection in hematopoietic stem cells â potential issues with probes and target cell population. Journal of Cell Science, 2015, 128, 3849-3860.	1.2	16
334	Reactive oxygen species: Reactions and detection from photosynthetic tissues. Journal of Photochemistry and Photobiology B: Biology, 2015, 152, 176-214.	1.7	95
335	SS-31 attenuates TNF-Î± induced cytokine release from C2C12 myotubes. Redox Biology, 2015, 6, 253-259.	3.9	36
336	Endothelin-1 critically influences cardiac function via superoxide-MMP9 cascade. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5141-5146.	3.3	42
337	Synthesis and anti-cancer potential of the positional isomers of NOSH-aspirin (NBS-1120) a dual nitric oxide and hydrogen sulfide releasing hybrid. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 4677-4682.	1.0	27
338	Superoxide produced in the matrix of mitochondria enhances methylmercury toxicity in human neuroblastoma cells. Toxicology and Applied Pharmacology, 2015, 289, 371-380.	1.3	17
339	N-acetylcysteine as a potential strategy to attenuate the oxidative stress induced by uremic serum in the vascular system. Life Sciences, 2015, 121, 110-116.	2.0	17
340	Impairment of antioxidant defense via glutathione depletion sensitizes acute lymphoblastic leukemia cells for Smac mimetic-induced cell death. Oncogene, 2015, 34, 4032-4043.	2.6	40
341	NOX2 Antisense Attenuates Hypoxia-Induced Oxidative Stress and Apoptosis in Cardiomyocyte. International Journal of Medical Sciences, 2016, 13, 646-652.	1.1	25
342	MitoSOX-Based Flow Cytometry for Detecting Mitochondrial ROS. , 2016, 2, 361-370.		109
343	In vivo genetic dissection of tumor growth and the Warburg effect. ELife, 2016, 5, .	2.8	78
344	Deep insights: intravital imaging with two-photon microscopy. Pflugers Archiv European Journal of Physiology, 2016, 468, 1505-1516.	1.3	34
345	Melatonin behavior in restoring chemical damaged C2C12 myoblasts. Microscopy Research and Technique, 2016, 79, 532-540.	1.2	18
347	Redox regulation of mitochondrial functional activity by quinones. Physiology International, 2016, 103, 439-458.	0.8	7
348	Mitochondrion: Features, functions and comparative analysis of specific probes in detecting sperm cell damages. Asian Pacific Journal of Reproduction, 2016, 5, 445-452.	0.2	21
349	Shengmai Formula suppressed over-activated Ras/MAPK pathway in C. elegans by opening mitochondrial permeability transition pore via regulating cyclophilin D. Scientific Reports, 2016, 6, 38934.	1.6	10
350	Integrated High-Content Quantification of Intracellular ROS Levels and Mitochondrial Morphofunction. Advances in Anatomy, Embryology and Cell Biology, 2016, 219, 149-177.	1.0	12

#	ARTICLE	IF	CITATIONS
351	Synthetic Sensors for Reactive Oxygen Species Detection and Quantification: A Critical Review of Current Methods. <i>Antioxidants and Redox Signaling</i> , 2016, 25, 520-533.	2.5	38
352	Focus on Bio-Image Informatics. <i>Advances in Anatomy, Embryology and Cell Biology</i> , 2016, , .	1.0	13
353	A Critical Review of Methodologies to Detect Reactive Oxygen and Nitrogen Species Stimulated by NADPH Oxidase Enzymes: Implications in Pesticide Toxicity. <i>Current Pharmacology Reports</i> , 2016, 2, 193-201.	1.5	33
354	ATR-101 disrupts mitochondrial functions in adrenocortical carcinoma cells and in vivo. <i>Endocrine-Related Cancer</i> , 2016, 23, 1-19.	1.6	22
355	Characterization of mitochondrial function in cells with impaired cystic fibrosis transmembrane conductance regulator (CFTR) function. <i>Journal of Bioenergetics and Biomembranes</i> , 2016, 48, 197-210.	1.0	38
356	The synthetic progestin norgestrel modulates Nrf2 signaling and acts as an antioxidant in a model of retinal degeneration. <i>Redox Biology</i> , 2016, 10, 128-139.	3.9	24
357	Temperature-dependent impact of thermal aminolaevulinic acid photodynamic therapy on apoptosis and reactive oxygen species generation in human dermal fibroblasts. <i>British Journal of Dermatology</i> , 2016, 175, 512-519.	1.4	34
358	Discerning the Chemistry in Individual Organelles with Small-Molecule Fluorescent Probes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13658-13699.	7.2	634
359	The hydroxypyridinone iron chelator CP94 increases methyl-aminolevulinic acid-based photodynamic cell killing by increasing the generation of reactive oxygen species. <i>Redox Biology</i> , 2016, 9, 90-99.	3.9	14
360	Development of fluorescent and luminescent probes for reactive oxygen species. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 85, 181-202.	5.8	52
361	Wahrnehmung der chemischen Prozesse in einzelnen Organellen mit niedermolekularen Fluoreszenzsonden. <i>Angewandte Chemie</i> , 2016, 128, 13858-13902.	1.6	53
362	Detection of Reactive Oxygen Species. , 2016, , 17-24.		0
363	Styrene enhances the noise induced oxidative stress in the cochlea and affects differently mechanosensory and supporting cells. <i>Free Radical Biology and Medicine</i> , 2016, 101, 211-225.	1.3	29
364	Understanding and preventing mitochondrial oxidative damage. <i>Biochemical Society Transactions</i> , 2016, 44, 1219-1226.	1.6	129
365	Mitochondrial ROS regulate oxidative damage and mitophagy but not age-related muscle fiber atrophy. <i>Scientific Reports</i> , 2016, 6, 33944.	1.6	97
366	Just Look! Intravital Microscopy as the Best Means to Study Kidney Cell Death Dynamics. <i>Seminars in Nephrology</i> , 2016, 36, 220-236.	0.6	14
367	Live-cell imaging approaches for the investigation of xenobiotic-induced oxidant stress. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 2802-2815.	1.1	16
368	ALS-linked misfolded SOD1 species have divergent impacts on mitochondria. <i>Acta Neuropathologica Communications</i> , 2016, 4, 43.	2.4	57

#	ARTICLE	IF	CITATIONS
369	Mitochondrial flashes: From indicator characterization to in vivo imaging. <i>Methods</i> , 2016, 109, 12-20.	1.9	10
370	Understanding the Role of Mitochondrial Health in the Mechanism of Mitochondrial Bioelectrocatalysis. <i>Journal of the Electrochemical Society</i> , 2016, 163, H292-H298.	1.3	7
371	The lysine biosynthetic enzyme Lys4 influences iron metabolism, mitochondrial function and virulence in <i>Cryptococcus neoformans</i> . <i>Biochemical and Biophysical Research Communications</i> , 2016, 477, 706-711.	1.0	10
372	Induction of micronuclei and superoxide production in neuroblastoma and glioma cell lines exposed to weak 50 Hz magnetic fields. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20150995.	1.5	29
373	Central GPR109A Activation Mediates Glutamate-Dependent Pressor Response in Conscious Rats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2016, 356, 457-466.	1.3	22
374	Screening of dietary antioxidants against mitochondria-mediated oxidative stress by visualization of intracellular redox state. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 726-734.	0.6	6
375	The CA domain of the respiratory complex I is required for normal embryogenesis in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2016, 67, 1589-1603.	2.4	34
376	Reactive oxygen species stimulate mitochondrial allele segregation toward homoplasmy in human cells. <i>Molecular Biology of the Cell</i> , 2016, 27, 1684-1693.	0.9	16
377	Methods for measuring myeloperoxidase activity toward assessing inhibitor efficacy in living systems. <i>Journal of Leukocyte Biology</i> , 2016, 99, 541-548.	1.5	47
378	Galangin prevents aminoglycoside-induced ototoxicity by decreasing mitochondrial production of reactive oxygen species in mouse cochlear cultures. <i>Toxicology Letters</i> , 2016, 245, 78-85.	0.4	29
379	Near-Infrared Fluorescence Probe for in Situ Detection of Superoxide Anion and Hydrogen Polysulfides in Mitochondrial Oxidative Stress. <i>Analytical Chemistry</i> , 2016, 88, 4122-4129.	3.2	154
380	Ultrasensitive detection of superoxide anion released from living cells using a porous Pt/Pd decorated enzymatic sensor. <i>Biosensors and Bioelectronics</i> , 2016, 79, 449-456.	5.3	49
381	Principles for integrating reactive species into in vivo biological processes: Examples from exercise physiology. <i>Cellular Signalling</i> , 2016, 28, 256-271.	1.7	57
382	Selective and Reversible Approaches Toward Imaging Redox Signaling Using Small-Molecule Probes. <i>Antioxidants and Redox Signaling</i> , 2016, 24, 713-730.	2.5	22
383	Dynamics of Mycobacteriophage-Mycobacterial Host Interaction: Evidence for Secondary Mechanisms for Host Lethality. <i>Applied and Environmental Microbiology</i> , 2016, 82, 124-133.	1.4	28
384	Inhibition of $\beta$ -oxidation is not a valid therapeutic tool for reducing oxidative stress in conditions of neurodegeneration. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 848-854.	2.4	10
385	Lipophilic triphenylphosphonium derivatives enhance radiation-induced cell killing via inhibition of mitochondrial energy metabolism in tumor cells. <i>Cancer Letters</i> , 2017, 390, 160-167.	3.2	30
386	Measurement of Superoxide Production and NADPH Oxidase Activity by HPLC Analysis of Dihydroethidium Oxidation. <i>Methods in Molecular Biology</i> , 2017, 1527, 233-249.	0.4	24

#	ARTICLE	IF	CITATIONS
387	Mitochondrially targeted fluorescent redox sensors. <i>Interface Focus</i> , 2017, 7, 20160105.	1.5	25
388	Gametophyte Development Needs Mitochondrial Coproporphyrinogen III Oxidase Function. <i>Plant Physiology</i> , 2017, 174, 258-275.	2.3	35
389	Flavin-containing enzymes as a source of reactive oxygen species in HEMA-induced apoptosis. <i>Dental Materials</i> , 2017, 33, e255-e271.	1.6	7
390	Triggering autophagic cell death with a di-manganese(II) developmental therapeutic. <i>Redox Biology</i> , 2017, 12, 150-161.	3.9	29
391	Exploring cells with targeted biosensors. <i>Journal of General Physiology</i> , 2017, 149, 1-36.	0.9	55
392	Trifluoperazine inhibits acetaminophen-induced hepatotoxicity and hepatic reactive nitrogen formation in mice and in freshly isolated hepatocytes. <i>Toxicology Reports</i> , 2017, 4, 134-142.	1.6	20
393	A Cell-Penetrant Manganese Superoxide Dismutase (MnSOD) Mimic Is Able To Complement MnSOD and Exerts an Antiinflammatory Effect on Cellular and Animal Models of Inflammatory Bowel Diseases. <i>Inorganic Chemistry</i> , 2017, 56, 2545-2555.	1.9	33
394	Apigenin-7-diglucuronide protects retinas against bright light-induced photoreceptor degeneration through the inhibition of retinal oxidative stress and inflammation. <i>Brain Research</i> , 2017, 1663, 141-150.	1.1	16
395	<i>Staphylococcus aureus</i> nitric oxide synthase (saNOS) modulates aerobic respiratory metabolism and cell physiology. <i>Molecular Microbiology</i> , 2017, 105, 139-157.	1.2	29
396	ROS-induced ROS release orchestrated by Nox4, Nox2, and mitochondria in VEGF signaling and angiogenesis. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 312, C749-C764.	2.1	190
397	Structure and function of human muscle fibres and muscle proteome in physically active older men. <i>Journal of Physiology</i> , 2017, 595, 4823-4844.	1.3	52
398	Liver microsomal lipid enhances the activity and redox coupling of colocalized cytochrome P450 reductase-cytochrome P450 3A4 in nanodiscs. <i>FEBS Journal</i> , 2017, 284, 2302-2319.	2.2	14
399	Detection of Reactive Oxygen Species in Anion Exchange Membrane Fuel Cells using In Situ Fluorescence Spectroscopy. <i>ChemSusChem</i> , 2017, 10, 3056-3062.	3.6	45
400	<i>Pseudomonas</i> Quinolone Signal Induces Oxidative Stress and Inhibits Heme Oxygenase-1 Expression in Lung Epithelial Cells. <i>Infection and Immunity</i> , 2017, 85, .	1.0	31
401	Mitochondrial Oxidative Stress Promotes Atherosclerosis and Neutrophil Extracellular Traps in Aged Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, e99-e107.	1.1	79
402	A chemical chaperone improves muscle function in mice with a RyR1 mutation. <i>Nature Communications</i> , 2017, 8, 14659.	5.8	54
403	Live Imaging of Mitochondrial ROS Production and Dynamic Redox Balance in Neurons. <i>NeuroMethods</i> , 2017, , 179-197.	0.2	2
404	One-step synthesis, self-assembly and bioimaging applications of adenosine triphosphate containing amphiphilies with aggregation-induced emission feature. <i>Materials Science and Engineering C</i> , 2017, 73, 252-256.	3.8	27

#	ARTICLE	IF	CITATIONS
405	PB1-F2 Peptide Derived from Avian Influenza A Virus H7N9 Induces Inflammation via Activation of the NLRP3 Inflammasome. <i>Journal of Biological Chemistry</i> , 2017, 292, 826-836.	1.6	70
406	A two-channel responsive fluorescent probe with AIE characteristics and its application for selective imaging of superoxide anions in living cells. <i>Chemical Communications</i> , 2017, 53, 1653-1656.	2.2	106
407	A new endoplasmic reticulum-targeted two-photon fluorescent probe for imaging of superoxide anion in diabetic mice. <i>Biosensors and Bioelectronics</i> , 2017, 91, 449-455.	5.3	88
408	Electron leak from NDUFA13 within mitochondrial complex I attenuates ischemia-reperfusion injury via dimerized STAT3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11908-11913.	3.3	38
409	Novel Strategy toward AIE-Active Fluorescent Polymeric Nanoparticles from Polysaccharides: Preparation and Cell Imaging. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9955-9964.	3.2	42
410	Guidelines for the use of flow cytometry and cell sorting in immunological studies <sup>*</sup> . <i>European Journal of Immunology</i> , 2017, 47, 1584-1797.	1.6	505
411	Protocols in Semen Biology (Comparing Assays)., 2017, , .		11
412	MitoNEET (CISD1) Knockout Mice Show Signs of Striatal Mitochondrial Dysfunction and a Parkinsonâ€™s Disease Phenotype. <i>ACS Chemical Neuroscience</i> , 2017, 8, 2759-2765.	1.7	56
413	Recent advances in mitochondria- and lysosomes-targeted small-molecule two-photon fluorescent probes. <i>Chinese Chemical Letters</i> , 2017, 28, 1943-1951.	4.8	79
414	MitoNeoD: A Mitochondria-Targeted Superoxide Probe. <i>Cell Chemical Biology</i> , 2017, 24, 1285-1298.e12.	2.5	69
415	Determining Oxidative Stress of Spermatozoa. , 2017, , 153-166.		0
416	N-Acetyl-L-cysteine protects thyroid cells against DNA damage induced by external and internal irradiation. <i>Radiation and Environmental Biophysics</i> , 2017, 56, 405-412.	0.6	12
417	MybA, a transcription factor involved in conidiation and conidial viability of the human pathogen <i>Aspergillus fumigatus</i> . <i>Molecular Microbiology</i> , 2017, 105, 880-900.	1.2	31
418	Peroxynitrite Footprint in Circulating Neutrophils of Abdominal Aortic Aneurysm Patients is Lower in Statin than in Non-statin Users. <i>European Journal of Vascular and Endovascular Surgery</i> , 2017, 54, 331-339.	0.8	2
420	Reactive Oxygen Species and Antioxidant Systems in Plants: Role and Regulation under Abiotic Stress. , 2017, , .		49
421	Design, Synthesis, and Cancer Cell Growth Inhibitory Activity of Triphenylphosphonium Derivatives of the Triterpenoid Betulin. <i>Journal of Natural Products</i> , 2017, 80, 2232-2239.	1.5	71
422	A modular trigger for the development of selective superoxide probes. <i>Chemical Communications</i> , 2017, 53, 10042-10045.	2.2	16
423	Oxalate-curcuminâ€‘based probe for micro- and macroimaging of reactive oxygen species in Alzheimerâ€™s disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12384-12389.	3.3	102



#	ARTICLE	IF	CITATIONS
424	Polymorphic regulation of mitochondrial fission and fusion modifies phenotypes of microglia in neuroinflammation. <i>Scientific Reports</i> , 2017, 7, 4942.	1.6	76
425	Mitochondria-Targeted Triphenylphosphonium-Based Compounds: Syntheses, Mechanisms of Action, and Therapeutic and Diagnostic Applications. <i>Chemical Reviews</i> , 2017, 117, 10043-10120.	23.0	1,051
426	Oxidative stress contributes to hepatocyte growth factor-dependent pro-senescence activity of ovarian cancer cells. <i>Free Radical Biology and Medicine</i> , 2017, 110, 270-279.	1.3	23
427	Fluorescence Technique. , 2017, , 87-162.		7
428	Quercetin Exerts Differential Neuroprotective Effects Against H <sub>2</sub> O <sub>2</sub> and A $\beta$ Aggregates in Hippocampal Neurons: the Role of Mitochondria. <i>Molecular Neurobiology</i> , 2017, 54, 7116-7128.	1.9	56
429	Muscle redox disturbances and oxidative stress as pathomechanisms and therapeutic targets in early-onset myopathies. <i>Seminars in Cell and Developmental Biology</i> , 2017, 64, 213-223.	2.3	51
430	A two-photon fluorescent probe for exogenous and endogenous superoxide anion imaging in vitro and in vivo. <i>Biosensors and Bioelectronics</i> , 2017, 87, 73-80.	5.3	66
431	Recent developments in detection of superoxide radical anion and hydrogen peroxide: Opportunities, challenges, and implications in redox signaling. <i>Archives of Biochemistry and Biophysics</i> , 2017, 617, 38-47.	1.4	105
432	Differential Effects of CORM-2 and CORM-401 in Murine Intestinal Epithelial MODE-K Cells under Oxidative Stress. <i>Frontiers in Pharmacology</i> , 2017, 8, 31.	1.6	29
433	RyR2-Mediated Ca <sup>2+</sup> Release and Mitochondrial ROS Generation Partake in the Synaptic Dysfunction Caused by Amyloid $\beta$ Peptide Oligomers. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 115.	1.4	41
436	Uric acid disrupts hypochlorous acid production and the bactericidal activity of HL-60 cells. <i>Redox Biology</i> , 2018, 16, 179-188.	3.9	23
437	Di-copper metallodrugs promote NCI-60 chemotherapy via singlet oxygen and superoxide production with tandem TA/TA and AT/AT oligonucleotide discrimination. <i>Nucleic Acids Research</i> , 2018, 46, 2733-2750.	6.5	41
438	Time-lapse microscopy of oxidative stress demonstrates metabolic sensitivity of retinal pericytes under high glucose condition. <i>Journal of Biophotonics</i> , 2018, 11, e201700289.	1.1	13
439	Water-Soluble Fluorescent Probe with Dual Mitochondria/Lysosome Targetability for Selective Superoxide Detection in Live Cells and in Zebrafish Embryos. <i>ACS Sensors</i> , 2018, 3, 59-64.	4.0	47
440	A turn-on near-infrared fluorescence probe with aggregation-induced emission based on dibenzo[ <i>a,c</i> ]phenazine for detection of superoxide anions and its application in cell imaging. <i>Analyst</i> , The, 2018, 143, 1242-1249.	1.7	44
441	The mitochondrial ABC transporter Atm1 plays a role in iron metabolism and virulence in the human fungal pathogen <i>Cryptococcus neoformans</i> . <i>Medical Mycology</i> , 2018, 56, 458-468.	0.3	27
442	Extracellular acidification induces ROS- and mPTP-mediated death in HEK293 cells. <i>Redox Biology</i> , 2018, 15, 394-404.	3.9	73
443	Targeting Mitochondria: The Road to Mitochondriotropic Antioxidants and Beyond. , 2018, , 333-358.		7

#	ARTICLE	IF	CITATIONS
444	Mitochondrial ROS cause motor deficits induced by synaptic inactivity: Implications for synapse pruning. <i>Redox Biology</i> , 2018, 16, 344-351.	3.9	43
445	Small-molecule luminescent probes for the detection of cellular oxidizing and nitrating species. <i>Free Radical Biology and Medicine</i> , 2018, 128, 3-22.	1.3	57
446	Quantitative optical measurement of mitochondrial superoxide dynamics in pulmonary artery endothelial cells. <i>Journal of Innovative Optical Health Sciences</i> , 2018, 11, .	0.5	11
447	Mitochondria-related oxidative stress contributes to ovarian cancer-promoting activity of mesothelial cells subjected to malignant ascites. <i>International Journal of Biochemistry and Cell Biology</i> , 2018, 98, 82-88.	1.2	17
448	Dissociation of JNK Activation from Elevated Levels of Reactive Oxygen Species, Cytochrome c Release, and Cell Death in NGF-Deprived Sympathetic Neurons. <i>Molecular Neurobiology</i> , 2018, 55, 382-389.	1.9	6
449	Detection and Characterization of Reactive Oxygen and Nitrogen Species in Biological Systems by Monitoring Species-Specific Products. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 1416-1432.	2.5	70
450	Detection of Hydrogen Peroxide with Fluorescent Dyes. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 585-602.	2.5	55
451	Cobalamin-Associated Superoxide Scavenging in Neuronal Cells Is a Potential Mechanism for Vitamin B12 Deprivation Optic Neuropathy. <i>American Journal of Pathology</i> , 2018, 188, 160-172.	1.9	54
452	Î±-synuclein Induces Mitochondrial Dysfunction through Spectrin and the Actin Cytoskeleton. <i>Neuron</i> , 2018, 97, 108-124.e6.	3.8	181
453	Development and validation of a LC/MS-based method for the measurement of intracellular superoxide anion. <i>Analytica Chimica Acta</i> , 2018, 999, 107-113.	2.6	12
454	Ratanasampil Suppresses the Hypoxia-Related Inflammatory Responses by Inhibiting Oxidative Stress and NF-Î±B Activation in Microglia. , 2018, 08, .		0
455	Cell Death Is Counteracted by Mitophagy in HIV-Productively Infected Astrocytes but Is Promoted by Inflammasome Activation Among Non-productively Infected Cells. <i>Frontiers in Immunology</i> , 2018, 9, 2633.	2.2	39
456	Lrrk promotes tau neurotoxicity through dysregulation of actin and mitochondrial dynamics. <i>PLoS Biology</i> , 2018, 16, e2006265.	2.6	44
457	TGF-Î²1 induces epithelial-to-mesenchymal transition via inhibiting mitochondrial functions in A549 cells. <i>Free Radical Research</i> , 2018, 52, 1432-1444.	1.5	24
458	A Redox-Based Superoxide Generation System Using Quinone/Quinone Reductase. <i>ChemBioChem</i> , 2018, 19, 1657-1663.	1.3	12
459	Mitochondrial Bioenergetics. <i>Methods in Molecular Biology</i> , 2018, , .	0.4	9
460	Measurement of Mitochondrial ROS Formation. <i>Methods in Molecular Biology</i> , 2018, 1782, 403-418.	0.4	18
461	Assessing Mitochondrial Function in In Vitro and Ex Vivo Models of Huntington's Disease. <i>Methods in Molecular Biology</i> , 2018, 1780, 415-442.	0.4	19

#	ARTICLE	IF	CITATIONS
462	Boosting the turn-on fluorescent signaling ability of thiazole orange dyes: The effectiveness of structural modification site and its unusual interaction behavior with nucleic acids. <i>Dyes and Pigments</i> , 2018, 159, 449-456.	2.0	17
463	Altered Redox Homeostasis in Branched-Chain Amino Acid Disorders, Organic Acidurias, and Homocystinuria. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-17.	1.9	24
464	Pro-inflammatory cytokines attenuate glucose-stimulated insulin secretion from INS-1E insulinoma cells by restricting mitochondrial pyruvate oxidation capacity $\hat{\alpha}^{\text{c}}$ . Novel mechanistic insight from real-time analysis of oxidative phosphorylation. <i>PLoS ONE</i> , 2018, 13, e0199505.	1.1	26
465	Chlorogenic Acid Prevents AMPA-Mediated Excitotoxicity in Optic Nerve Oligodendrocytes Through a PKC and Caspase-Dependent Pathways. <i>Neurotoxicity Research</i> , 2018, 34, 559-573.	1.3	14
466	Reactive Metabolite-induced Protein Glutathionylation: A Potentially Novel Mechanism Underlying Acetaminophen Hepatotoxicity. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 2034-2050.	2.5	20
467	Second signals rescue B cells from activation-induced mitochondrial dysfunction and death. <i>Nature Immunology</i> , 2018, 19, 871-884.	7.0	166
468	Detection of mitochondria-generated reactive oxygen species in cells using multiple probes and methods: Potentials, pitfalls, and the future. <i>Journal of Biological Chemistry</i> , 2018, 293, 10363-10380.	1.6	80
469	Practical guidelines for rigor and reproducibility in preclinical and clinical studies on cardioprotection. <i>Basic Research in Cardiology</i> , 2018, 113, 39.	2.5	311
470	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.	1.3	22
471	Enhanced ROS production leads to excessive fat accumulation through DAF-16 in <i>Caenorhabditis elegans</i> . <i>Experimental Gerontology</i> , 2018, 112, 20-29.	1.2	28
472	A 1,8-naphthalimide-based turn-on fluorescent probe for imaging mitochondrial hydrogen peroxide in living cells. <i>Free Radical Research</i> , 2018, 52, 1288-1295.	1.5	23
473	Short term doxycycline treatment induces sustained improvement in myocardial infarction border zone contractility. <i>PLoS ONE</i> , 2018, 13, e0192720.	1.1	13
474	Are Hydroethidine-Based Probes Reliable for Reactive Oxygen Species Detection?. <i>Antioxidants and Redox Signaling</i> , 2019, 31, 359-367.	2.5	27
475	Impaired Mitophagy and Protein Acetylation Levels in Fibroblasts from Parkinson's Disease Patients. <i>Molecular Neurobiology</i> , 2019, 56, 2466-2481.	1.9	50
476	Arabidopsis mtHSC70-1 plays important roles in the establishment of COX-dependent respiration and redox homeostasis. <i>Journal of Experimental Botany</i> , 2019, 70, 5575-5590.	2.4	19
477	Carnosine Decreases PMA-Induced Oxidative Stress and Inflammation in Murine Macrophages. <i>Antioxidants</i> , 2019, 8, 281.	2.2	56
478	Sorrel Extract Reduces Oxidant Production in Airway Epithelial Cells Exposed to Swine Barn Dust Extract In Vitro. <i>Mediators of Inflammation</i> , 2019, 2019, 1-11.	1.4	4
479	IDH2 deficiency impairs cutaneous wound healing via ROS-dependent apoptosis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 165523.	1.8	12

#	ARTICLE	IF	CITATIONS
480	Spatiotemporally Tracking the Programmable Mitochondrial Membrane Potential Evolutions by a Robust Molecular Rotor. <i>Small</i> , 2019, 15, 1903266.	5.2	17
481	Impairment of Mitochondrial Redox Status in Peripheral Lymphocytes of Multiple Sclerosis Patients. <i>Frontiers in Neuroscience</i> , 2019, 13, 938.	1.4	24
482	Comparison of Mitochondrial Superoxide Detection Ex Vivo/In Vivo by mitoSOX HPLC Method with Classical Assays in Three Different Animal Models of Oxidative Stress. <i>Antioxidants</i> , 2019, 8, 514.	2.2	23
483	Two-Photon Fluorescence Probe for Selective Monitoring of Superoxide in Live Cells and Tissues. <i>Analytical Chemistry</i> , 2019, 91, 14691-14696.	3.2	30
484	The natural compound gracillin exerts potent antitumor activity by targeting mitochondrial complex II. <i>Cell Death and Disease</i> , 2019, 10, 810.	2.7	45
485	Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). <i>European Journal of Immunology</i> , 2019, 49, 1457-1973.	1.6	766
486	Phosphinate-based mitochondria-targeted fluorescent probe for imaging and detection of endogenous superoxide in live cells and in vivo. <i>Talanta</i> , 2019, 197, 239-248.	2.9	15
487	The Cisplatin-Derived Increase of Mitochondrial Reactive Oxygen Species Enhances the Effectiveness of Photodynamic Therapy via Transporter Regulation. <i>Cells</i> , 2019, 8, 918.	1.8	11
488	Cytotoxic and antiproliferative effects of thymoquinone on rat C6 glioma cells depend on oxidative stress. <i>Molecular and Cellular Biochemistry</i> , 2019, 462, 195-206.	1.4	16
489	Ocean acidification impact on ascidian <i>Ciona robusta</i> spermatozoa: New evidence for stress resilience. <i>Science of the Total Environment</i> , 2019, 697, 134100.	3.9	23
490	Heat shock protein B1 is a key mediator of prolactin-induced beta-cell cytoprotection against oxidative stress. <i>Free Radical Biology and Medicine</i> , 2019, 134, 394-405.	1.3	15
491	Immunological Synapse Formation Induces Mitochondrial Clustering and Mitophagy in Dendritic Cells. <i>Journal of Immunology</i> , 2019, 202, 1715-1723.	0.4	9
492	Antimicrobial Polymers: The Potential Replacement of Existing Antibiotics?. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2747.	1.8	178
493	Sequential Detection of Superoxide Anion and Hydrogen Polysulfides under Hypoxic Stress via a Spectral-Response-Separated Fluorescent Probe Functioned with a Nitrobenzene Derivative. <i>Analytical Chemistry</i> , 2019, 91, 7774-7781.	3.2	45
494	The Behavioral Sequelae of Social Defeat Require Microglia and Are Driven by Oxidative Stress in Mice. <i>Journal of Neuroscience</i> , 2019, 39, 5594-5605.	1.7	85
495	YAP/TAZ Inhibition Induces Metabolic and Signaling Rewiring Resulting in Targetable Vulnerabilities in NF2-Deficient Tumor Cells. <i>Developmental Cell</i> , 2019, 49, 425-443.e9.	3.1	78
496	Live-Imaging Readouts and Cell Models for Phenotypic Profiling of Mitochondrial Function. <i>Frontiers in Genetics</i> , 2019, 10, 131.	1.1	16
497	Recovery of the <i>Xenopus laevis</i> heart from ROS-induced stress utilizes conserved pathways of cardiac regeneration. <i>Development Growth and Differentiation</i> , 2019, 61, 212-227.	0.6	3

#	ARTICLE	IF	CITATIONS
498	Cell type-specific differences in redox regulation and proliferation after low UVA doses. PLoS ONE, 2019, 14, e0205215.	1.1	10
499	The role of mitochondrial labile iron in Friedreich's ataxia skin fibroblasts sensitivity to ultraviolet A. Metallomics, 2019, 11, 656-665.	1.0	16
500	Elucidation of a non-thermal mechanism for DNA/RNA fragmentation and protein degradation when using Lyse-It. PLoS ONE, 2019, 14, e0225475.	1.1	3
501	Specific BK Channel Activator NS11021 Protects Rat Renal Proximal Tubular Cells from Cold Storage-Induced Mitochondrial Injury In Vitro. Biomolecules, 2019, 9, 825.	1.8	13
502	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.	3.9	43
503	Synthesis and evaluation of chalcone analogues containing a 4-oxoquinazolin-2-yl group as potential anti-tumor agents. European Journal of Medicinal Chemistry, 2019, 162, 586-601.	2.6	26
504	Enhancing responsiveness of pancreatic cancer cells to gemcitabine treatment under hypoxia by heme oxygenase-1 inhibition. Translational Research, 2019, 207, 56-69.	2.2	35
505	Distinction of sporadic and familial forms of ALS based on mitochondrial characteristics. FASEB Journal, 2019, 33, 4388-4403.	0.2	25
506	The $\hat{1}\pm$ , $\hat{1}^2$ -unsaturated pyrazolone-based fluorescent sensor with red emission and its application for real-time monitoring hypochlorite in cancer cells and zebrafish. Dyes and Pigments, 2019, 161, 303-312.	2.0	16
507	A novel flow cytometry assay using dihydroethidium as redox-sensitive probe reveals NADPH oxidase-dependent generation of superoxide anion in human platelets exposed to amyloid peptide $\hat{1}^2$ . Platelets, 2019, 30, 181-189.	1.1	17
508	Versatile Fluorescent Probes for Imaging the Superoxide Anion in Living Cells and In Vivo. Angewandte Chemie, 2020, 132, 4244-4258.	1.6	36
509	Versatile Fluorescent Probes for Imaging the Superoxide Anion in Living Cells and In Vivo. Angewandte Chemie - International Edition, 2020, 59, 4216-4230.	7.2	115
510	Nutrient Metabolism, Subcellular Redox State, and Oxidative Stress in Pancreatic Islets and $\hat{1}^2$ -Cells. Journal of Molecular Biology, 2020, 432, 1461-1493.	2.0	56
511	Papuanamine Inhibits Viability of Non-small Cell Lung Cancer Cells by Inducing Mitochondrial Dysfunction. Anticancer Research, 2020, 40, 323-333.	0.5	8
512	Proteomics Analysis of <i>Candida albicans</i> dnm1 Haploid Mutant Unraveled the Association between Mitochondrial Fission and Antifungal Susceptibility. Proteomics, 2020, 20, e1900240.	1.3	12
513	A ratiometric fluorescent probe for detecting the endogenous biological signaling molecule superoxide anion and bioimaging during tumor treatment. Journal of Materials Chemistry B, 2020, 8, 1017-1025.	2.9	15
514	Mechanisms of Mitochondrial ROS Production in Assisted Reproduction: The Known, the Unknown, and the Intriguing. Antioxidants, 2020, 9, 933.	2.2	31
515	Nrf2-regulated redox signaling in brain endothelial cells adapted to physiological oxygen levels: Consequences for sulforaphane mediated protection against hypoxia-reoxygenation. Redox Biology, 2020, 37, 101708.	3.9	49

#	ARTICLE	IF	CITATIONS
516	Approaches for Reactive Oxygen Species and Oxidative Stress Quantification in Epilepsy. <i>Antioxidants</i> , 2020, 9, 990.	2.2	51
517	ROS in Platelet Biology: Functional Aspects and Methodological Insights. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4866.	1.8	104
518	Crescent-Shaped Supramolecular Tetrapeptide Nanostructures. <i>Journal of the American Chemical Society</i> , 2020, 142, 20058-20065.	6.6	33
519	ROS-Mediated Therapeutic Strategy in Chemo-/Radiotherapy of Head and Neck Cancer. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-30.	1.9	43
520	Alleviating Cellular Oxidative Stress through Treatment with Superoxide-Triggered Persulfide Prodrugs. <i>Angewandte Chemie</i> , 2020, 132, 16841-16847.	1.6	8
521	Setanaxib as a Potent Hypoxia-specific Therapeutic Agent Against Liver Cancer. <i>Anticancer Research</i> , 2020, 40, 5071-5079.	0.5	6
522	Smokeless tobacco induces toxicity and apoptosis in neuronal cells: a mechanistic evaluation. <i>Free Radical Research</i> , 2020, 54, 477-496.	1.5	2
523	Brain Testosterone-CYP1B1 (Cytochrome P450 1B1) Generated Metabolite 6 $\beta$ -Hydroxytestosterone Promotes Neurogenic Hypertension and Inflammation. <i>Hypertension</i> , 2020, 76, 1006-1018.	1.3	9
524	Carbon quantum Dot@Silver nanocomposite-based fluorescent imaging of intracellular superoxide anion. <i>Mikrochimica Acta</i> , 2020, 187, 484.	2.5	24
525	Hyperphosphorylation Renders Tau Prone to Aggregate and to Cause Cell Death. <i>Molecular Neurobiology</i> , 2020, 57, 4704-4719.	1.9	24
526	Mitochondria-targeted magnolol inhibits OXPHOS, proliferation, and tumor growth via modulation of energetics and autophagy in melanoma cells. <i>Cancer Treatment and Research Communications</i> , 2020, 25, 100210.	0.7	16
527	Oxidation of ethidium-based probes by biological radicals: mechanism, kinetics and implications for the detection of superoxide. <i>Scientific Reports</i> , 2020, 10, 18626.	1.6	14
528	The role of reactive oxygen species in the virulence of wheat leaf rust fungus <i>Puccinia triticina</i> . <i>Environmental Microbiology</i> , 2020, 22, 2956-2967.	1.8	7
529	DnmA and FisA Mediate Mitochondria and Peroxisome Fission, and Regulate Mitochondrial Function, ROS Production and Development in <i>Aspergillus nidulans</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 837.	1.5	13
530	Oxidative stress and antioxidant capacity: development and prospects. <i>New Journal of Chemistry</i> , 2020, 44, 11405-11419.	1.4	12
531	An Ex Vivo Brain Slice Culture Model of Chronic Wasting Disease: Implications for Disease Pathogenesis and Therapeutic Development. <i>Scientific Reports</i> , 2020, 10, 7640.	1.6	11
532	Tumor-Specific Chemotherapy by Nanomedicine-Enabled Differential Stress Sensitization. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9693-9701.	7.2	85
533	<i>Pseudomonas</i> Quinolone Signal molecule PQS behaves like a B Class inhibitor at the Q site of mitochondrial complex I. <i>FASEB BioAdvances</i> , 2020, 2, 188-202.	1.3	14

#	ARTICLE	IF	CITATIONS
534	H <sub>2</sub> S-Donating trisulfide linkers confer unexpected biological behaviour to poly(ethylene) Tj ETQq0 0 0,rgBT /Overlock 10 Tf	2.9	7
535	Tumor-specific Chemotherapy by Nanomedicine-enabled Differential Stress Sensitization. <i>Angewandte Chemie</i> , 2020, 132, 9780-9788.	1.6	13
536	Alleviating Cellular Oxidative Stress through Treatment with Superoxide-triggered Persulfide Prodrugs. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16698-16704.	7.2	40
537	NOSH-aspirin (NBS-1120) inhibits pancreatic cancer cell growth in a xenograft mouse model: Modulation of FoxM1, p53, NF- $\kappa$ B, iNOS, caspase-3 and ROS. <i>Biochemical Pharmacology</i> , 2020, 176, 113857.	2.0	16
538	Thymoquinone Induces Mitochondrial Damage and Death of Cerebellar Granule Neurons. <i>Biochemistry (Moscow)</i> , 2020, 85, 205-212.	0.7	8
539	Mmi1, the Yeast Ortholog of Mammalian Translationally Controlled Tumor Protein (TCTP), Negatively Affects Rapamycin-Induced Autophagy in Post-Diauxic Growth Phase. <i>Cells</i> , 2020, 9, 138.	1.8	3
540	Sperm Motility Impairment in Free Spawning Invertebrates Under Near-Future Level of Ocean Acidification: Uncovering the Mechanism. <i>Frontiers in Marine Science</i> , 2020, 6, .	1.2	20
541	Potent Anticancer Effect of the Natural Steroidal Saponin Gracillin Is Produced by Inhibiting Glycolysis and Oxidative Phosphorylation-Mediated Bioenergetics. <i>Cancers</i> , 2020, 12, 913.	1.7	22
542	Fluorescein-containing Superoxide Probes with a Modular Copper-based Trigger. <i>ChemPlusChem</i> , 2020, 85, 653-658.	1.3	5
543	Mitochondria-targeted drug delivery in cancers. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165808.	1.8	70
544	Dual role of oxidative stress-JNK activation in autophagy and apoptosis induced by nickel oxide nanoparticles in human cancer cells. <i>Free Radical Biology and Medicine</i> , 2020, 153, 173-186.	1.3	26
545	Myocardial injection of a thermoresponsive hydrogel with reactive oxygen species scavenger properties improves border zone contractility. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 1736-1746.	2.1	16
546	Tracking isotopically labeled oxidants using boronate-based redox probes. <i>Journal of Biological Chemistry</i> , 2020, 295, 6665-6676.	1.6	17
547	Accumulation of Amyloid precursor protein C-terminal fragments triggers mitochondrial structure, function, and mitophagy defects in Alzheimer's disease models and human brains. <i>Acta Neuropathologica</i> , 2021, 141, 39-65.	3.9	114
548	ROS Dynamics Delineate Functional States of Hippocampal Neural Stem Cells and Link to Their Activity-Dependent Exit from Quiescence. <i>Cell Stem Cell</i> , 2021, 28, 300-314.e6.	5.2	55
549	A Novel Triphenylphosphonium Carrier to Target Mitochondria without Uncoupling Oxidative Phosphorylation. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 662-676.	2.9	50
550	Cellular Redox State Acts as Switch to Determine the Direction of NNT-Catalyzed Reaction in Cystic Fibrosis Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 967.	1.8	4
551	Live-Cell Assessment of Reactive Oxygen Levels Using. <i>Methods in Molecular Biology</i> , 2021, 2275, 291-299.	0.4	3

#	ARTICLE	IF	CITATIONS
552	Peptide Vectors Carry Pyrene to Cell Organelles Allowing Real-Time Quantification of Free Radicals in Mitochondria by Time-Resolved Fluorescence Microscopy. <i>ChemBioChem</i> , 2021, 22, 1676-1685.	1.3	9
553	Hallmarks and detection techniques of cellular senescence and cellular ageing in immune cells. <i>Aging Cell</i> , 2021, 20, e13316.	3.0	54
554	Functions of ROS in Macrophages and Antimicrobial Immunity. <i>Antioxidants</i> , 2021, 10, 313.	2.2	244
555	A two-photon fluorescent probe with lysosome targetability for imaging endogenous superoxide anion in living cells, zebrafish and pneumonia tissue. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129523.	4.0	15
556	Dopamine D5 receptor-mediated decreases in mitochondrial reactive oxygen species production are cAMP and autophagy dependent. <i>Hypertension Research</i> , 2021, 44, 628-641.	1.5	13
557	Imaging of lysosomal oxidative stress during autophagy with a ratiometric probe featuring a large probe-product spectral separation. <i>Sensors and Actuators B: Chemical</i> , 2021, 335, 129713.	4.0	4
558	Luminescent lanthanide complexes for reactive oxygen species biosensing and possible application in Alzheimer's diseases. <i>FEBS Journal</i> , 2022, 289, 2516-2539.	2.2	12
559	In Vitro Liver Toxicity Testing of Chemicals: A Pragmatic Approach. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5038.	1.8	18
560	Detection of extracellular superoxide in isolated human immune cells and in an animal model of arterial hypertension using hydropropidine probe and HPLC analysis. <i>Free Radical Biology and Medicine</i> , 2021, 168, 214-225.	1.3	8
561	A flow-cytometry-based protocol for detection of mitochondrial ROS production under hypoxia. <i>STAR Protocols</i> , 2021, 2, 100466.	0.5	10
562	Cyanine-Dyad Molecular Probe for the Simultaneous Profiling of the Evolution of Multiple Radical Species During Bacterial Infections. <i>Angewandte Chemie</i> , 2021, 133, 17037-17042.	1.6	4
563	Type I interferon decreases macrophage energy metabolism during mycobacterial infection. <i>Cell Reports</i> , 2021, 35, 109195.	2.9	63
564	Chitosan-Coated Gold Nanoparticles Induce Low Cytotoxicity and Low ROS Production in Primary Leucocytes, Independent of Their Proliferative Status. <i>Pharmaceutics</i> , 2021, 13, 942.	2.0	6
565	Cyanine-Dyad Molecular Probe for the Simultaneous Profiling of the Evolution of Multiple Radical Species During Bacterial Infections. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16900-16905.	7.2	48
566	Gasdermins mediate cellular release of mitochondrial DNA during pyroptosis and apoptosis. <i>FASEB Journal</i> , 2021, 35, e21757.	0.2	44
567	Loss of mTORC2 Activity in Neutrophils Impairs Fusion of Granules and Affects Cellular Metabolism Favoring Increased Bacterial Burden in Sepsis. <i>Journal of Immunology</i> , 2021, 207, 626-639.	0.4	2
568	Sperm Motility, Oxidative Status, and Mitochondrial Activity: Exploring Correlation in Different Species. <i>Antioxidants</i> , 2021, 10, 1131.	2.2	26
569	Detection of Oxidative Stress Induced by Nanomaterials in Cells—The Roles of Reactive Oxygen Species and Glutathione. <i>Molecules</i> , 2021, 26, 4710.	1.7	42



#	ARTICLE	IF	CITATIONS
570	Short Overview of Some Assays for the Measurement of Antioxidant Activity of Natural Products and Their Relevance in Dermatology. <i>Molecules</i> , 2021, 26, 5301.	1.7	9
571	Unbiased automated quantitation of ROS signals in live retinal neurons of <i>Drosophila</i> using Fiji/ImageJ. <i>BioTechniques</i> , 2021, 71, 416-424.	0.8	10
572	An update on methods and approaches for interrogating mitochondrial reactive oxygen species production. <i>Redox Biology</i> , 2021, 45, 102044.	3.9	25
573	Reactive Oxygen Species: Not Omnipresent but Important in Many Locations. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 716406.	1.8	45
574	Alpha1-antitrypsin counteracts heme-induced endothelial cell inflammatory activation, autophagy dysfunction and death. <i>Redox Biology</i> , 2021, 46, 102060.	3.9	6
575	A sensitive and selective fluorescence probe for the detection of superoxide radical anion in vivo based on a protection-deprotection process. <i>Dyes and Pigments</i> , 2021, 194, 109614.	2.0	7
576	New strategy for detection of hydrogen peroxide based on bi-nucleophilic reaction. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 262, 120131.	2.0	2
577	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.	0.4	2
578	Live-Cell Assessment of Mitochondrial Reactive Oxygen Species Using Dihydroethidine. <i>Methods in Molecular Biology</i> , 2015, 1264, 161-169.	0.4	16
579	Analysis of Mitochondrial Morphology and Function Under Conditions of Mitofusin 2 Deficiency. <i>Methods in Molecular Biology</i> , 2015, 1265, 307-320.	0.4	6
580	Targeting Mitochondria with Small Molecules: The Preparation of MitoB and MitoP as Exomarkers of Mitochondrial Hydrogen Peroxide. <i>Methods in Molecular Biology</i> , 2015, 1265, 25-50.	0.4	19
582	Acetaldehyde dehydrogenase 2 deficiency increases mitochondrial reactive oxygen species emission and induces mitochondrial protease Omi/HtrA2 in skeletal muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 318, R677-R690.	0.9	16
583	Perivascular macrophages mediate the neurovascular and cognitive dysfunction associated with hypertension. <i>Journal of Clinical Investigation</i> , 2016, 126, 4674-4689.	3.9	235
584	KRIT1 Regulates the Homeostasis of Intracellular Reactive Oxygen Species. <i>PLoS ONE</i> , 2010, 5, e11786.	1.1	106
585	Generation of Variants in <i>Listeria monocytogenes</i> Continuous-Flow Biofilms Is Dependent on Radical-Induced DNA Damage and RecA-Mediated Repair. <i>PLoS ONE</i> , 2011, 6, e28590.	1.1	21
586	Loss of DJ-1 Does Not Affect Mitochondrial Respiration but Increases ROS Production and Mitochondrial Permeability Transition Pore Opening. <i>PLoS ONE</i> , 2012, 7, e40501.	1.1	84
587	Loss of PINK1 Increases the Heart's Vulnerability to Ischemia-Reperfusion Injury. <i>PLoS ONE</i> , 2013, 8, e62400.	1.1	99
588	Caveolin-1 Is a Critical Determinant of Autophagy, Metabolic Switching, and Oxidative Stress in Vascular Endothelium. <i>PLoS ONE</i> , 2014, 9, e87871.	1.1	102

#	ARTICLE	IF	CITATIONS
589	Mitochondria-Targeted Catalase Reverts the Neurotoxicity of hSOD1G93A Astrocytes without Extending the Survival of ALS-Linked Mutant hSOD1 Mice. <i>PLoS ONE</i> , 2014, 9, e103438.	1.1	40
590	Lipophilic Triphenylphosphonium Cations Inhibit Mitochondrial Electron Transport Chain and Induce Mitochondrial Proton Leak. <i>PLoS ONE</i> , 2015, 10, e0121837.	1.1	126
591	Mitochondrial Probe Methyltriphenylphosphonium (TPMP) Inhibits the Krebs Cycle Enzyme 2-Oxoglutarate Dehydrogenase. <i>PLoS ONE</i> , 2016, 11, e0161413.	1.1	10
592	Detoxification of Mitochondrial Oxidants and Apoptotic Signaling Are Facilitated by Thioredoxin-2 and Peroxiredoxin-3 during Hyperoxic Injury. <i>PLoS ONE</i> , 2017, 12, e0168777.	1.1	18
593	Modulation of iron metabolism by iron chelation regulates intracellular calcium and increases sensitivity to doxorubicin. <i>Bosnian Journal of Basic Medical Sciences</i> , 2016, 16, 14-20.	0.6	13
594	Relationship between Optical Redox Status and Reactive Oxygen Species in Cancer Cells. , 0, , .		9
595	A Mitochondrial Approach to Cardiovascular Risk and Disease. <i>Current Pharmaceutical Design</i> , 2019, 25, 3175-3194.	0.9	19
596	Reactive Oxygen Species, Cancer and Anti-Cancer Therapies. <i>Current Chemical Biology</i> , 2009, 3, 22-46.	0.2	53
597	Intracellular and Mitochondrial Reactive Oxygen Species Measurement in Primary Cultured Neurons. <i>Bio-protocol</i> , 2018, 8, e2871.	0.2	3
598	Flow Cytometric Analysis of Ca <sup>2+</sup> -Induced Membrane Permeability Transition of Isolated Rat Liver Mitochondria. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2008, 42, 35-44.	0.6	6
599	Fluorescent probes for the detection of reactive oxygen species in human spermatozoa. <i>Asian Journal of Andrology</i> , 2020, 22, 465.	0.8	21
600	1,5-Benzodiazepin-2(3H)-ones: In Vitro Evaluation as Antiparkinsonian Agents. <i>Antioxidants</i> , 2021, 10, 1584.	2.2	3
601	Two-photon activated precision molecular photosensitizer targeting mitochondria. <i>Communications Chemistry</i> , 2021, 4, .	2.0	7
602	Novel methods to detect ROS in viable spermatozoa of native semen samples. <i>Reproductive Toxicology</i> , 2021, 106, 51-60.	1.3	10
605	Detection of Superoxide in Blood Vessels. , 2014, , 1423-1433.		0
606	Structural and Metabolic Determinants of Mitochondrial Superoxide and its Detection Methods. , 2014, , 295-322.		0
607	Intracellular and Mitochondrial Reactive Oxygen Species Measurement in Primary Cultured Neurons. <i>Bio-protocol</i> , 2018, 8, .	0.2	6
609	Key Cellular Effectors in ROS-Mediated Cardiac Diseases. , 2019, , 151-195.		1

#	ARTICLE	IF	CITATIONS
610	Dodecyltriphenylphosphonium As an Inducer of Potassium-Dependent Permeability in Rat Liver Mitochondria. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2019, 13, 310-318.	0.3	3
611	Probes for Detection of Free Radicles. , 2020, , 203-223.		0
612	Recent Advances of Fluorescence Resonance Energy Transfer-Based Nanosensors for the Detection of Human Ailments. , 2020, , 157-173.		0
614	Relationship between Optical Redox Status and Reactive Oxygen Species in Cancer Cells. <i>Reactive Oxygen Species (Apex, N C )</i> , 2020, 9, 95-108.	5.4	9
615	Mitochondria-Targeted Compounds to Assess and Improve Human Sperm Function. <i>Antioxidants and Redox Signaling</i> , 2022, 37, 451-480.	2.5	10
616	Detecting Validated Intracellular ROS Generation with 18F-dihydroethidine-Based PET. <i>Molecular Imaging and Biology</i> , 2022, 24, 377-383.	1.3	4
617	The role of mitochondrial reactive oxygen species in insulin resistance. <i>Free Radical Biology and Medicine</i> , 2022, 179, 339-362.	1.3	19
618	Generation of mitochondrial reactive oxygen species through a histidine kinase, HysA in <i>Aspergillus nidulans</i> . <i>Journal of General and Applied Microbiology</i> , 2022, , .	0.4	0
619	Inhibition of peroxidases and oxidoreductases is crucial for avoiding false-positive reactions in the localization of reactive oxygen species in intact barley root tips. <i>Planta</i> , 2022, 255, 69.	1.6	1
620	Impact of Seminal Plasma Antioxidants on Donkey Sperm Cryotolerance. <i>Antioxidants</i> , 2022, 11, 417.	2.2	7
621	Rational deuteration of dronedarone attenuates its toxicity in human hepatic HepG2 cells. <i>Toxicology Research</i> , 2022, 11, 311-324.	0.9	1
622	Evaluation of 6-Hydroxydopamine and Rotenone In Vitro Neurotoxicity on Differentiated SH-SY5Y Cells Using Applied Computational Statistics. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3009.	1.8	2
623	MicroRNA-210 Controls Mitochondrial Metabolism and Protects Heart Function in Myocardial Infarction. <i>Circulation</i> , 2022, 145, 1140-1153.	1.6	41
624	Direct and Simultaneous Identification of Multiple Mitochondrial Reactive Oxygen Species in Living Cells Using a SERS Borrowing Strategy. <i>Angewandte Chemie</i> , 0, , .	1.6	1
625	Direct and Simultaneous Identification of Multiple Mitochondrial Reactive Oxygen Species in Living Cells Using a SERS Borrowing Strategy. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	19
626	Glutathione-dependent redox balance characterizes the distinct metabolic properties of follicular and marginal zone B cells. <i>Nature Communications</i> , 2022, 13, 1789.	5.8	18
627	Endurance exercise attenuates juvenile irradiation-induced skeletal muscle functional decline and mitochondrial stress. <i>Skeletal Muscle</i> , 2022, 12, 8.	1.9	5
635	Mitochondrial Sirtuin-3 (SIRT3) Prevents Doxorubicin-Induced Dilated Cardiomyopathy by Modulating Protein Acetylation and Oxidative Stress. <i>Circulation: Heart Failure</i> , 2022, 15, 101161CIRCHEARTFAILURE121008547.	1.6	25

#	ARTICLE	IF	CITATIONS
637	Distinct designer diamines promote mitophagy, and thereby enhance healthspan in <i>C. elegans</i> and protect human cells against oxidative damage. <i>Autophagy</i> , 2023, 19, 474-504.	4.3	7
638	Mitochondrial calcium uniporter stabilization preserves energetic homeostasis during Complex I impairment. <i>Nature Communications</i> , 2022, 13, 2769.	5.8	17
639	Effect of zinc and copper ions on cadmium-induced toxicity in rat cultured cortical neurons. <i>Journal of Trace Elements in Medicine and Biology</i> , 2022, 73, 127012.	1.5	5
640	Ejiao ameliorates lipopolysaccharide-induced pulmonary inflammation via inhibition of NF- $\kappa$ B regulating NLRP3 inflammasome and mitochondrial ROS. <i>Biomedicine and Pharmacotherapy</i> , 2022, 152, 113275.	2.5	4
641	A novel coumarin-TPA based fluorescent probe for turn-on hypochlorite detection and lipid-droplet-polarity bioimaging in cancer cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 279, 121481.	2.0	8
642	Hyperoxia evokes pericyte-mediated capillary constriction. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 2032-2047.	2.4	10
643	Inhibiting Succinate Release Worsens Cardiac Reperfusion Injury by Enhancing Mitochondrial Reactive Oxygen Species Generation. <i>Journal of the American Heart Association</i> , 2022, 11, .	1.6	13
644	Experimental Conditions That Influence the Utility of 2- $\beta$ -Dichlorodihydrofluorescein Diacetate (DCFH2-DA) as a Fluorogenic Biosensor for Mitochondrial Redox Status. <i>Antioxidants</i> , 2022, 11, 1424.	2.2	8
645	Autophagy and lipid droplets are a defense mechanism against toxic copper oxide nanotubes in the eukaryotic microbial model <i>Tetrahymena thermophila</i> . <i>Science of the Total Environment</i> , 2022, 847, 157580.	3.9	1
646	N-Terminal Acetylation of $\alpha$ -Synuclein Slows down Its Aggregation Process and Alters the Morphology of the Resulting Aggregates. <i>Biochemistry</i> , 2022, 61, 1743-1756.	1.2	18
647	Molecular Mechanisms of Cytotoxicity of NCX4040, the Non-Steroidal Anti-Inflammatory NO-Donor, in Human Ovarian Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 8611.	1.8	3
648	Reactive oxygen species, the trident of Neptune in the hands of hecate; role in different diseases, signaling pathways, and detection methods. <i>Archives of Biochemistry and Biophysics</i> , 2022, 728, 109357.	1.4	3
649	Oxidative and Nitrosative Stress Detection in Human Sperm Using Fluorescent Probes. <i>Methods in Molecular Biology</i> , 2023, , 45-52.	0.4	1
650	Role of Carbon Monoxide in Oxidative Stress-Induced Senescence in Human Bronchial Epithelium. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-15.	1.9	3
651	Insulin Diminishes Superoxide Increase in Cytosol and Mitochondria of Cultured Cortical Neurons Treated with Toxic Glutamate. <i>International Journal of Molecular Sciences</i> , 2022, 23, 12593.	1.8	6
652	Non-additive mixture effects of benzo[a]pyrene and pesticides in vitro and in vivo: Role of AhR signaling. <i>Environmental Pollution</i> , 2023, 316, 120510.	3.7	2
653	Effects of oxygen on the response of mitochondria to X-irradiation and reactive oxygen species-mediated fibroblast activation. <i>International Journal of Radiation Biology</i> , 2023, 99, 769-778.	1.0	1
655	Chronic exposure to the star polycation (SPc) nanocarrier in the larval stage adversely impairs life history traits in <i>Drosophila melanogaster</i> . <i>Journal of Nanobiotechnology</i> , 2022, 20, .	4.2	12

#	ARTICLE	IF	CITATIONS
656	A new hydrocyanine probe for imaging reactive oxygen species in the mitochondria of live cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2023, 87, 129262.	1.0	1
657	Recent Development of Advanced Fluorescent Molecular Probes for Organelle-Targeted Cell Imaging. <i>Biosensors</i> , 2023, 13, 360.	2.3	5
659	1,2,4,5-Tetrazine-tethered probes for fluorogenically imaging superoxide in live cells with ultrahigh specificity. <i>Nature Communications</i> , 2023, 14, .	5.8	7
660	The mitochondrial ribosomal protein <sc>mRpL4</sc> regulates Notch signaling. <i>EMBO Reports</i> , 0, , .	2.0	2
661	Activity-based Sensing: Principles and Probes for Selective Bioimaging. , 2023, , 17-39.		0
666	Methods to Measure Reactive Oxygen Species Production by NADPH Oxidases. , 2023, , 323-341.		0
683	Quantification of mitochondrial reactive oxygen species in macrophages during sepsis. <i>Methods in Cell Biology</i> , 2024, , .	0.5	0