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## Mitochondrial formation of reactive oxygen species

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2067	What cardiologists should know about calcium ion channels and their regulation by reactive oxygen species. <b>2007</b> , 16, 361-72	12
2066	Carvedilol inhibits mitochondrial complex I and induces resistance to H <sub>2</sub> O <sub>2</sub> -mediated oxidative insult in H9C2 myocardial cells. <b>2007</b> , 1767, 222-32	46
2065	Exposing the complex III Qo semiquinone radical. <b>2007</b> , 1767, 883-7	71
2064	Fatty acids decrease mitochondrial generation of reactive oxygen species at the reverse electron transport but increase it at the forward transport. <b>2007</b> , 1767, 1032-40	99
2063	Respiratory chain components involved in the glycerophosphate dehydrogenase-dependent ROS production by brown adipose tissue mitochondria. <b>2007</b> , 1767, 989-97	33
2062	Three distinct mechanisms generate oxygen free radicals in neurons and contribute to cell death during anoxia and reoxygenation. <b>2007</b> , 27, 1129-38	477
2061	Design and synthesis of fluorescent probes for selective detection of highly reactive oxygen species in mitochondria of living cells. <b>2007</b> , 129, 10324-5	238
2060	6.5 Mitochondrial Mechanisms of Oxidative Stress and Apoptosis. <b>2007</b> , 703-734	
2059	Reductive Stress. <b>2007</b> , 331-336	3
2058	Redox control of calcium channels: from mechanisms to therapeutic opportunities. <b>2007</b> , 9, 409-35	133
2057	Redox Enzymes. <b>2007</b> , 1053-1087	5
2056	Mitochondrial superoxide production in skeletal muscle fibers of the rat and decreased fiber excitability. <b>2007</b> , 292, C1353-60	19
2055	O <sub>2</sub> ( <sup>-</sup> ) production at 37 degrees C plays a critical role in depressing tetanic force of isolated rat and mouse skeletal muscle. <b>2007</b> , 293, C650-60	41
2054	Catechin as an antioxidant in liver mitochondrial toxicity: Inhibition of tamoxifen-induced protein oxidation and lipid peroxidation. <b>2007</b> , 21, 110-7	43
2053	Metabolic syndrome and mitochondrial function: molecular replacement and antioxidant supplements to prevent membrane peroxidation and restore mitochondrial function. <b>2007</b> , 100, 1352-69	85

2052	Prostate carcinoma cells selected by long-term exposure to reduced oxygen tension show remarkable biochemical plasticity via modulation of superoxide, HIF-1alpha levels, and energy metabolism. <b>2007</b> , 212, 744-52		8
2051	The developing embryonic cardiac outflow tract is highly sensitive to oxidant stress. <b>2007</b> , 236, 3496-502		10
2050	Mass spectrometry-based survey of age-associated protein carbonylation in rat brain mitochondria. <b>2007</b> , 42, 1583-9		41
2049	Simultaneous age-related depolarization of mitochondrial membrane potential and increased mitochondrial reactive oxygen species production correlate with age-related glutamate excitotoxicity in rat hippocampal neurons. <b>2007</b> , 85, 1018-32		52
2048	Glutathione status in the blood and tissues of patients with virus-originated hepatocellular carcinoma. <b>2007</b> , 40, 1157-62		23
2047	Characterization of proteomic changes in cardiac mitochondria in streptozotocin-diabetic rats using iTRAQ isobaric tags. <b>2007</b> , 1, 565-76		33
2046	Diabetes associated cell stress and dysfunction: role of mitochondrial and non-mitochondrial ROS production and activity. <i>Journal of Physiology</i> , <b>2007</b> , 583, 9-24	3.9	449
2045	Effect of Adriamycin on superoxide radical generation in isolated heart mitochondria. <b>2007</b> , 52, 582-586		2
2044	Hydrogen acts as a therapeutic antioxidant by selectively reducing cytotoxic oxygen radicals. <b>2007</b> , 13, 688-94		1436
2043	Uncoupling is without an effect on the production of reactive oxygen species by in situ synaptic mitochondria. <b>2007</b> , 103, 1864-71		43
2042	From death receptor to reactive oxygen species and c-Jun N-terminal protein kinase: the receptor-interacting protein 1 odyssey. <b>2007</b> , 220, 8-21		85
2041	Hemigramicidin-TEMPO conjugates: novel mitochondria-targeted anti-oxidants. <b>2007</b> , 74, 801-9		66
2040	Estrogen suppresses brain mitochondrial oxidative stress in female and male rats. <b>2007</b> , 1176, 71-81		139
2039	Ethanol stimulates ROS generation by mitochondria through Ca <sup>2+</sup> mobilization and increases GFAP content in rat hippocampal astrocytes. <b>2007</b> , 1178, 28-37		81
2038	Dimethylthiourea protects against mitochondrial oxidative damage induced by cisplatin in liver of rats. <b>2007</b> , 170, 177-86		40
2037	Role of mitochondrial reactive oxygen species in hypoxia-dependent increase in intracellular calcium in pulmonary artery myocytes. <b>2007</b> , 42, 642-53		73
2036	Formation and role of plasma S-nitrosothiols in liver ischemia-reperfusion injury. <b>2007</b> , 42, 882-92		21
2035	Differential regulation of Mn-superoxide dismutase in neurons and astroglia by HIV-1 gp120: Implications for HIV-associated dementia. <b>2007</b> , 42, 1866-78		41

2034	Quantification of basal and stimulated ROS levels as predictors of islet potency and function. <b>2007</b> , 7, 38-47	64
2033	Inhibition of the mitochondrial respiratory chain function abrogates quartz induced DNA damage in lung epithelial cells. <b>2007</b> , 617, 46-57	17
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2031	Apoptosis and Human Diseases: Molecular Mechanisms. <b>2006</b> , 365-394	
2030	Hydroxyl radical scavenger ameliorates cisplatin-induced nephrotoxicity by preventing oxidative stress, redox state unbalance, impairment of energetic metabolism and apoptosis in rat kidney mitochondria. <b>2008</b> , 61, 145-55	116
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2028	Analysis of age-associated changes in mitochondrial free radical generation by rat testis. <b>2008</b> , 307, 23-30	27
2027	Moderate dependence of ROS formation on DeltaPsim in isolated brain mitochondria supported by NADH-linked substrates. <b>2007</b> , 32, 569-75	30
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2025	Pathological apoptosis in the developing brain. <b>2007</b> , 12, 993-1010	152
2024	Platinum nanoparticles have an activity similar to mitochondrial NADH:ubiquinone oxidoreductase. <b>2008</b> , 66, 195-200	70
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2022	Acute and chronic hyperammonemia modulate antioxidant enzymes differently in cerebral cortex and cerebellum. <b>2008</b> , 33, 103-13	33
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1808	Oxidative stress and beta-cell dysfunction. <b>2010</b> , 460, 703-18	183
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1788	The sites and topology of mitochondrial superoxide production. <b>2010</b> , 45, 466-72	796
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1785	Structure-function relationships in feedback regulation of energy fluxes in vivo in health and disease: mitochondrial interactosome. <b>2010</b> , 1797, 678-97	93
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1662	Chemical characterization of various fractions of leaves of Cinnamomum tamala Linn toward their antioxidant, hypoglycemic, and anti-inflammatory property. <b>2011</b> , 33, 466-72	4
1661	Forkhead box o as a sensor, mediator, and regulator of redox signaling. <b>2011</b> , 14, 1093-106	99
1660	Mitochondrial metabolic suppression in fasting and daily torpor: consequences for reactive oxygen species production. <b>2011</b> , 84, 467-80	13
1659	Mitochondrion: an emerging platform critical for host antiviral signaling. <b>2011</b> , 15, 647-65	19
1658	Protective effects of synthetic kynurenines on 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced parkinsonism in mice. <b>2011</b> , 85, 133-40	15
1657	New insights of mitochondria reactive oxygen species generation and cell apoptosis induced by low dose photodynamic therapy. <b>2011</b> , 47, 2750-61	22

1656	PARK6 PINK1 mutants are defective in maintaining mitochondrial membrane potential and inhibiting ROS formation of substantia nigra dopaminergic neurons. <b>2011</b> , 1812, 674-84	87
1655	Effect of mitochondrial complex I inhibition on Fe-S cluster protein activity. <b>2011</b> , 409, 241-6	44
1654	Activation of mitochondrial $\beta$ -calpain increases AIF cleavage in cardiac mitochondria during ischemia-reperfusion. <b>2011</b> , 415, 533-8	72
1653	Impact of the carotenoid astaxanthin on phagocytic capacity and ROS/RNS production of human neutrophils treated with free fatty acids and high glucose. <b>2011</b> , 11, 2220-6	39
1652	Inactivation of astrocytic glutamine synthetase by hydrogen peroxide requires iron. <b>2011</b> , 490, 27-30	17
1651	Role of oxidative stress and the mitochondrial permeability transition in methylmercury cytotoxicity. <b>2011</b> , 32, 526-34	39
1650	Cepharanthine improves renal ischemia-reperfusion injury in rats. <b>2011</b> , 171, 212-7	10
1649	Ischemic preconditioning decreases mitochondrial proton leak and reactive oxygen species production in the postischemic heart. <b>2011</b> , 165, 5-14	28
1648	[Mitochondrial dysfunction in fibromyalgia and its implication in the pathogenesis of disease]. <b>2011</b> , 136, 252-6	11
1647	Mitofusins are required for angiogenic function and modulate different signaling pathways in cultured endothelial cells. <b>2011</b> , 51, 885-93	61
1646	Dietary antioxidant capacity is inversely associated with diabetes biomarkers: the ATTICA study. <b>2011</b> , 21, 561-7	54
1645	Characterization of the stimulus for reactive oxygen species generation in calcium-overloaded mitochondria. <b>2011</b> , 16, 108-13	9
1644	Emerging roles of ROS/RNS in muscle function and fatigue. <b>2011</b> , 15, 2487-99	83
1643	Balancing mitochondrial redox signaling: a key point in metabolic regulation. <b>2011</b> , 14, 519-30	46
1642	Neuroprotective effects of tempol acyl esters against retinal ganglion cell death in a rat partial optic nerve crush model. <b>2011</b> , 89, e555-60	7
1641	Rapid dissolution of ZnO nanocrystals in acidic cancer microenvironment leading to preferential apoptosis. <b>2011</b> , 3, 3657-69	104
1640	Tolerance of spermatogonia to oxidative stress is due to high levels of Zn and Cu/Zn superoxide dismutase. <b>2011</b> , 6, e16938	79
1639	Mitochondrial network determines intracellular ROS dynamics and sensitivity to oxidative stress through switching inter-mitochondrial messengers. <b>2011</b> , 6, e23211	138

1638	Recent progress toward hydrogen medicine: potential of molecular hydrogen for preventive and therapeutic applications. <b>2011</b> , 17, 2241-52		177
1637	The role of oxidized cytochrome c in regulating mitochondrial reactive oxygen species production and its perturbation in ischaemia. <b>2011</b> , 436, 493-505		100
1636	Low Level Laser and Light Therapy. <b>2011</b> , 751-770		
1635	1,4-Diselenophene-1,4-diketone triggers caspase-dependent apoptosis in human melanoma A375 cells through induction of mitochondrial dysfunction. <b>2011</b> , 59, 1227-32		11
1634	Differential responses of targeted lung redox enzymes to rat exposure to 60 or 85% oxygen. <b>2011</b> , 111, 95-107		8
1633	Understanding the effects of oxygen administration in haemorrhagic shock. <b>2011</b> , 16, 28-35		8
1632	Ethanol as a prodrug: brain metabolism of ethanol mediates its reinforcing effects. <b>2011</b> , 35, 606-12		94
1631	2-amino-nonyl-6-methoxyl-tetralin muriate activity against <i>Candida albicans</i> augments endogenous reactive oxygen species production --a microarray analysis study. <b>2011</b> , 278, 1075-85		5
1630	Effect of pre-breathing oxygen at different depth on oxidative status and calcium concentration in lymphocytes of scuba divers. <b>2011</b> , 202, 69-78		27
1629	Biophysical properties and functional consequences of reactive oxygen species (ROS)-induced ROS release in intact myocardium. <i>Journal of Physiology</i> , <b>2011</b> , 589, 5167-79	3-9	42
1628	FK506 neuroprotection after cavernous nerve injury is mediated by thioredoxin and glutathione redox systems. <b>2011</b> , 8, 3325-34		15
1627	Frequent biphasic cellular responses of permanent fish cell cultures to deoxynivalenol (DON). <b>2011</b> , 256, 24-34		23
1626	Taking a "good" look at free radicals in the aging process. <b>2011</b> , 21, 569-76		395
1625	In vitro toxicity study of plant latex capped silver nanoparticles in human lung carcinoma cells. <b>2011</b> , 31, 1723-1728		49
1624	Effects of oral N-acetylcysteine on fatigue, critical power, and W' in exercising humans. <b>2011</b> , 178, 261-8		34
1623	Role of endogenous ROS production in impaired metabolism-secretion coupling of diabetic pancreatic $\beta$ cells. <b>2011</b> , 107, 304-10		19
1622	Bioenergetics, mitochondria, and cardiac myocyte differentiation. <b>2011</b> , 31, 75-81		94
1621	Sex-specific biochemical and histological differences in gonads of sea urchins ( <i>Psammechinus miliaris</i> ) and their response to phenanthrene exposure. <b>2011</b> , 71, 70-8		17

1620	Acute changes in temperature or oxygen availability induce ROS fluctuations in <i>Daphnia magna</i> linked with fluctuations of reduced and oxidized glutathione, catalase activity and gene (haemoglobin) expression. <b>2011</b> , 103, 351-63	40
1619	Synthesis, crystal structures, and biological evaluation of manganese(II) and nickel(II) complexes of 4-cyclohexyl-1-(1-(pyrazin-2-yl)ethylidene)thiosemicarbazide. <b>2011</b> , 46, 4383-90	27
1618	Blockade of electron transport during ischemia preserves bcl-2 and inhibits opening of the mitochondrial permeability transition pore. <b>2011</b> , 585, 921-6	45
1617	Resveratrol interacts with estrogen receptor- $\alpha$ to inhibit cell replicative growth and enhance stress resistance by upregulating mitochondrial superoxide dismutase. <b>2011</b> , 50, 821-31	47
1616	Primary role of mitochondrial Rieske iron-sulfur protein in hypoxic ROS production in pulmonary artery myocytes. <b>2011</b> , 50, 945-52	41
1615	Extending life span by increasing oxidative stress. <b>2011</b> , 51, 327-36	527
1614	The rate of oxygen utilization by cells. <b>2011</b> , 51, 700-12	214
1613	Plaque oxysterols induce unbalanced up-regulation of matrix metalloproteinase-9 in macrophagic cells through redox-sensitive signaling pathways: Implications regarding the vulnerability of atherosclerotic lesions. <b>2011</b> , 51, 844-55	38
1612	Oxidases and peroxidases in cardiovascular and lung disease: new concepts in reactive oxygen species signaling. <b>2011</b> , 51, 1271-88	193
1611	Uncoupling proteins and the control of mitochondrial reactive oxygen species production. <b>2011</b> , 51, 1106-15	379
1610	SOD2-mediated adaptive responses induced by low-dose ionizing radiation via TNF signaling and amifostine. <b>2011</b> , 51, 1918-25	23
1609	A combined quantum chemical and crystallographic study on the oxidized binuclear center of cytochrome c oxidase. <b>2011</b> , 1807, 769-78	30
1608	Excess no predisposes mitochondrial succinate-cytochrome c reductase to produce hydroxyl radical. <b>2011</b> , 1807, 491-502	9
1607	Monoamine oxidases (MAO) in the pathogenesis of heart failure and ischemia/reperfusion injury. <b>2011</b> , 1813, 1323-32	116
1606	DNA repair in organelles: Pathways, organization, regulation, relevance in disease and aging. <b>2011</b> , 1813, 186-200	121
1605	Nuclear-encoded mitochondrial proteins and their role in cardioprotection. <b>2011</b> , 1813, 1286-94	46
1604	Mitochondrial dysfunction in diabetic cardiomyopathy. <b>2011</b> , 1813, 1351-9	136
1603	Interaction of 1,3,4-thiadiazolium mesoionic derivatives with mitochondrial membrane and scavenging activity: Involvement of their effects on mitochondrial energy-linked functions. <b>2011</b> , 189, 17-25	9

1602	Putting bioactivation reactions to work: Targeting antioxidants to mitochondria. <b>2011</b> , 192, 8-13	7
1601	Glabridin protects osteoblastic MC3T3-E1 cells against antimycin A induced cytotoxicity. <b>2011</b> , 193, 71-8	10
1600	Metabolic and physiological responses in tissues of the long-lived bivalve <i>Arctica islandica</i> to oxygen deficiency. <b>2011</b> , 158, 513-9	41
1599	Redox regulation of calcium ion channels: chemical and physiological aspects. <b>2011</b> , 50, 407-23	94
1598	Conjugated linoleic acid-induced apoptosis in mouse mammary tumor cells is mediated by both G protein coupled receptor-dependent activation of the AMP-activated protein kinase pathway and by oxidative stress. <b>2011</b> , 23, 2013-20	20
1597	Autophagy, reactive oxygen species and the fate of mammalian cells. <b>2011</b> , 45, 253-65	47
1596	Classical and alternative components of the mitochondrial respiratory chain in pathogenic fungi as potential therapeutic targets. <b>2011</b> , 43, 81-8	21
1595	Electron transport chain dysfunction by H <sub>2</sub> O <sub>2</sub> is linked to increased reactive oxygen species production and iron mobilization by lipoperoxidation: studies using <i>Saccharomyces cerevisiae</i> mitochondria. <b>2011</b> , 43, 135-47	7
1594	Characterization of <i>Rubus fruticosus</i> mitochondria and salicylic acid inhibition of reactive oxygen species generation at Complex III/Q cycle: potential implications for hypersensitive response in plants. <b>2011</b> , 43, 237-46	17
1593	Hydroxysafflor yellow A protects PC12 cells against the apoptosis induced by oxygen and glucose deprivation. <b>2011</b> , 31, 1187-94	31
1592	Apoptotic effects of hydrogen peroxide and vitamin C on chicken embryonic fibroblasts: redox state and programmed cell death. <b>2011</b> , 63, 461-71	4
1591	Novel therapies targeting inner mitochondrial membrane--from discovery to clinical development. <b>2011</b> , 28, 2669-79	115
1590	An acetate prodrug of a pyridinol-based vitamin E analogue. <b>2011</b> , 28, 2896-909	14
1589	The effect of dichloroacetate on health- and lifespan in <i>C. elegans</i> . <b>2011</b> , 12, 195-209	44
1588	Mitochondrial ROS production under cellular stress: comparison of different detection methods. <b>2011</b> , 400, 2383-90	123
1587	Alzheimer's disease: effects of $\beta$ -amyloid on mitochondria. <b>2011</b> , 11, 13-21	98
1586	In vitro comparison of the photothermal anticancer activity of graphene nanoparticles and carbon nanotubes. <b>2011</b> , 32, 1121-9	451
1585	A combination of 2-deoxy-D-glucose and 6-aminonicotinamide induces oxidative stress mediated selective radiosensitization of malignant cells via mitochondrial dysfunction. <b>2011</b> , 32, 951-64	6

1584	Targeting mitochondrial function for the treatment of acute spinal cord injury. <b>2011</b> , 8, 168-79	75
1583	Exposure to 50 Hz electromagnetic field raises the levels of the anti-apoptotic protein BAG3 in melanoma cells. <b>2011</b> , 226, 2901-7	21
1582	Diverse protective roles of the actin cytoskeleton during oxidative stress. <b>2011</b> , 68, 340-54	70
1581	Identification of potential biomarkers for predicting acute dermal irritation by proteomic analysis. <b>2011</b> , 31, 762-72	16
1580	Two-dimensional imaging of spontaneous ultra-weak photon emission from the human skin: role of reactive oxygen species. <b>2011</b> , 4, 840-9	30
1579	Superoxide dismutase in redox biology: the roles of superoxide and hydrogen peroxide. <b>2011</b> , 11, 341-6	198
1578	Mitochondrial recoupling: a novel therapeutic strategy for cancer?. <b>2011</b> , 105, 469-74	68
1577	Nitric oxide/reactive oxygen species generation and nitroso/redox imbalance in heart failure: from molecular mechanisms to therapeutic implications. <b>2011</b> , 14, 289-331	67
1576	Oxidative stress and mitochondrial dysfunction in sepsis. <b>2011</b> , 107, 57-64	323
1575	Mitochondrial injury and protection in ischemic pre- and postconditioning. <b>2011</b> , 14, 881-91	77
1574	Hypoxia leads to Na,K-ATPase downregulation via Ca(2+) release-activated Ca(2+) channels and AMPK activation. <b>2011</b> , 31, 3546-56	109
1573	Zim17/Tim15 links mitochondrial iron-sulfur cluster biosynthesis to nuclear genome stability. <b>2011</b> , 39, 6002-15	18
1572	Influence of elevated temperature on metabolism during aestivation: implications for muscle disuse atrophy. <b>2011</b> , 214, 3782-9	12
1571	Ischemia/reperfusion injury and cardioprotective mechanisms: Role of mitochondria and reactive oxygen species. <b>2011</b> , 3, 186-200	218
1570	Subunits Rip1p and Cox9p of the respiratory chain contribute to diclofenac-induced mitochondrial dysfunction. <b>2011</b> , 157, 685-694	20
1569	Evidence of severe mitochondrial oxidative stress and a protective effect of low oxygen in mouse models of inherited photoreceptor degeneration. <b>2011</b> , 20, 322-35	39
1568	The mitochondria-targeted antioxidant mitoquinone protects against cold storage injury of renal tubular cells and rat kidneys. <b>2011</b> , 336, 682-92	53
1567	Loss of a conserved tyrosine residue of cytochrome b induces reactive oxygen species production by cytochrome bc1. <b>2011</b> , 286, 18139-48	35



1566	Targeting apoptosis pathways in cancer with magnolol and honokiol, bioactive constituents of the bark of <i>Magnolia officinalis</i> . <b>2011</b> , 5, 202-10	35
1565	Damage-associated molecular pattern S100A9 increases bactericidal activity of human neutrophils by enhancing phagocytosis. <b>2011</b> , 186, 3622-31	74
1564	Romo1 is a negative-feedback regulator of Myc. <b>2011</b> , 124, 1911-24	20
1563	The antioxidant EPC-K1 attenuates renal ischemia-reperfusion injury in a rat model. <b>2011</b> , 33, 485-90	22
1562	SOD2-mediated effects induced by WR1065 and low-dose ionizing radiation on micronucleus formation in RKO human colon carcinoma cells. <b>2011</b> , 175, 57-65	18
1561	Mitochondrial-targeted Signal transducer and activator of transcription 3 (STAT3) protects against ischemia-induced changes in the electron transport chain and the generation of reactive oxygen species. <b>2011</b> , 286, 29610-20	164
1560	Apoptosis induced by persistent single-strand breaks in mitochondrial genome: critical role of EXOG (5'-EXO/endonuclease) in their repair. <b>2011</b> , 286, 31975-83	118
1559	Chemical genetics analysis of an aniline mustard anticancer agent reveals complex I of the electron transport chain as a target. <b>2011</b> , 286, 33910-20	14
1558	Mitochondrial thioredoxin reductase is essential for early postischemic myocardial protection. <b>2011</b> , 124, 2892-902	60
1557	Inter-relationship between mitochondrial function and susceptibility to oxidative stress in red- and white-blooded Antarctic notothenioid fishes. <b>2011</b> , 214, 3732-41	35
1556	Interaction of p53 with tumor suppressive and oncogenic signaling pathways to control cellular reactive oxygen species production. <b>2011</b> , 15, 1749-61	44
1555	Role of thioredoxin 1 and thioredoxin 2 on proliferation of human adipose tissue-derived mesenchymal stem cells. <b>2011</b> , 20, 1529-37	30
1554	Amyloid Beta induces oxidative stress-mediated blood-brain barrier changes in capillary amyloid angiopathy. <b>2011</b> , 15, 1167-78	181
1553	Effects of Cadmium on the Expression of Antioxidant Enzymes, Oxidative Stress and Apoptosis in Primary Hepatocytes of <i>Carassius Auratus</i> . <b>2012</b> , 518-523, 341-346	
1552	Involvement of intracellular reactive oxygen species and mitochondria in the radiosensitivity of human hematopoietic stem cells. <b>2012</b> , 53, 145-50	19
1551	Mitochondria-derived superoxide and voltage-gated sodium channels in baroreceptor neurons from chronic heart-failure rats. <b>2012</b> , 107, 591-602	15
1550	Opposing effects of nitric oxide and prostaglandin inhibition on muscle mitochondrial Vo(2) during exercise. <b>2012</b> , 303, R94-100	14
1549	Different timing of changes in mitochondrial functions following endurance training. <b>2012</b> , 44, 217-24	33

1548	The role of free radicals in the aging brain and Parkinson's Disease: convergence and parallelism. <b>2012</b> , 13, 10478-504	133
1547	Toward a unifying hypothesis of metabolic syndrome. <b>2012</b> , 129, 557-70	120
1546	The development of subcutaneous sarcomas in rodents exposed to peroxisome proliferators agonists: hypothetical mechanisms of action and de-risking attitude. <b>2012</b> , 40, 810-8	9
1545	Mitochondria and Oxidative Stress in the Cardiorenal Metabolic Syndrome. <b>2012</b> , 2, 87-109	50
1544	Influence of Hydrogen Discharged from Palladium Base Hydrogen Storage Alloys on Cancer Cells. <b>2012</b> , 706-709, 520-525	6
1543	Mitochondria in vascular disease. <b>2012</b> , 95, 173-82	112
1542	Protein carbonylation and adipocyte mitochondrial function. <b>2012</b> , 287, 32967-80	51
1541	Assessment of reactive oxygen species production in cultured equine skeletal myoblasts in response to conditions of anoxia followed by reoxygenation with or without exposure to peroxidases. <b>2012</b> , 73, 426-34	8
1540	Cholestasis is associated with hepatic microvascular dysfunction and aberrant energy metabolism before and during ischemia-reperfusion. <b>2012</b> , 17, 1109-23	36
1539	Differential inhibition of electron transport chain enzyme complexes by cadmium and calcium in isolated rainbow trout ( <i>Oncorhynchus mykiss</i> ) hepatic mitochondria. <b>2012</b> , 127, 110-9	33
1538	Mitochondrial metabolic suppression and reactive oxygen species production in liver and skeletal muscle of hibernating thirteen-lined ground squirrels. <b>2012</b> , 302, R15-28	70
1537	Tryptamine-gallic acid hybrid prevents non-steroidal anti-inflammatory drug-induced gastropathy: correction of mitochondrial dysfunction and inhibition of apoptosis in gastric mucosal cells. <b>2012</b> , 287, 3495-509	20
1536	Expression of NADPH oxidase by trophoblast cells: potential implications for the postimplanting mouse embryo. <b>2012</b> , 86, 56	6
1535	Doxorubicin acts via mitochondrial ROS to stimulate catabolism in C2C12 myotubes. <b>2012</b> , 302, C195-202	86
1534	Progression of type 2 diabetes in GK rats affects muscle and liver mitochondria differently: pronounced reduction of complex II flux is observed in liver only. <b>2012</b> , 303, E515-23	22
1533	Oxidative stress in neurodegeneration: targeting mitochondria as a therapeutic aid. <b>2012</b> , 137-161	1
1532	Mitochondrial protection and anti-aging activity of Astragalus polysaccharides and their potential mechanism. <b>2012</b> , 13, 1747-61	73
1531	Mitochondria-ros crosstalk in the control of cell death and aging. <b>2012</b> , 2012, 329635	388

1530	Oxidative stress, mitochondrial dysfunction, and aging. <b>2012</b> , 2012, 646354	530
1529	Blockade of electron transport at the onset of reperfusion decreases cardiac injury in aged hearts by protecting the inner mitochondrial membrane. <b>2012</b> , 2012, 753949	30
1528	Molecular Crosstalk between Integrins and Cadherins: Do Reactive Oxygen Species Set the Talk?. <b>2012</b> , 2012, 807682	46
1527	Reactive oxygen species are second messengers of neurokinin signaling in peripheral sensory neurons. <b>2012</b> , 109, E1578-86	67
1526	Contribution of mitochondrial network dynamics to intracellular ROS signaling. <b>2012</b> , 5, 81-3	13
1525	Mitochondrial Abnormalities and Oxidative Stress in Alzheimer's Disease. <b>2012</b> , 391-414	
1524	Postconditioning modulates ischemia-damaged mitochondria during reperfusion. <b>2012</b> , 59, 101-8	34
1523	Bioassay-comparison of the antioxidant efficacy of hydrogen sulfide and superoxide dismutase in isolated arteries and veins. <b>2012</b> , 99, 411-9	13
1522	Reactive oxygen species: the 2-edged sword of osteoarthritis. <b>2012</b> , 344, 486-90	64
1521	Evaluating oxidative stress in human cardiovascular disease: methodological aspects and considerations. <b>2012</b> , 19, 2504-20	146
1520	Mitochondrial functional specialization in glycolytic and oxidative muscle fibers: tailoring the organelle for optimal function. <b>2012</b> , 302, C629-41	113
1519	The inflammation highway: metabolism accelerates inflammatory traffic in obesity. <b>2012</b> , 249, 218-38	389
1518	A disproportionate role for mtDNA in Dobzhansky-Muller incompatibilities?. <b>2012</b> , 21, 4942-57	193
1517	Role of oxidative stress in diabetes-mediated vascular dysfunction: unifying hypothesis of diabetes revisited. <b>2012</b> , 57, 139-49	94
1516	Ischemic preconditioning preserves mitochondrial membrane potential and limits reactive oxygen species production. <b>2012</b> , 178, 8-17	15
1515	Susceptibility of mitochondrial electron-transport complexes to oxidative damage. Focus on cytochrome c oxidase. <b>2012</b> , 46, 1313-26	112
1514	Glutathione is a key player in metal-induced oxidative stress defenses. <b>2012</b> , 13, 3145-75	486
1513	The molecular mechanisms of pancreatic $\beta$ -cell glucotoxicity: recent findings and future research directions. <b>2012</b> , 364, 1-27	193

1512	Mitochondrial membrane permeabilization and cell death during myocardial infarction: roles of calcium and reactive oxygen species. <b>2012</b> , 8, 863-84	211
1511	Each to their own: skeletal muscles of different function use different biochemical strategies during aestivation at high temperature. <b>2013</b> , 216, 1012-24	18
1510	Mitochondria-localized caveolin in adaptation to cellular stress and injury. <b>2012</b> , 26, 4637-49	72
1509	Mitochondria and reactive oxygen species. Which role in physiology and pathology?. <b>2012</b> , 942, 93-136	133
1508	Radiation hormesis: Autophagy and other cellular mechanisms. <b>2012</b> , 88, 619-28	39
1507	Dynamic modelling of protein and oxidative metabolisms simulates the pathogenesis of Parkinson's disease. <b>2012</b> , 6, 65-72	19
1506	Piperphentonamine (PPTA) attenuated cerebral ischemia-induced memory deficits via neuroprotection associated with anti-apoptotic activity. <b>2012</b> , 27, 495-505	9
1505	Evaluation of nephrotoxic effects of mycotoxins, citrinin and patulin, on zebrafish ( <i>Danio rerio</i> ) embryos. <b>2012</b> , 50, 4398-404	40
1504	High Ca <sup>2+</sup> load promotes hydrogen peroxide generation via activation of glycero-phosphate dehydrogenase in brain mitochondria. <b>2012</b> , 53, 2119-30	18
1503	Simulated climate change causes immune suppression and protein damage in the crustacean <i>Nephrops norvegicus</i> . <b>2012</b> , 33, 1095-101	65
1502	Degrees of chloroquine resistance in <i>Plasmodium</i> - is the redox system involved?. <b>2012</b> , 2, 47-57	33
1501	Superoxide production during ischemia-reperfusion in the perfused rat heart: a comparison of two methods of measurement. <b>2012</b> , 53, 906-15	20
1500	Polyphenols decreased liver NADPH oxidase activity, increased muscle mitochondrial biogenesis and decreased gastrocnemius age-dependent autophagy in aged rats. <b>2012</b> , 46, 1140-9	22
1499	Carvedilol protects against apoptotic cell death induced by cisplatin in renal tubular epithelial cells. <b>2012</b> , 75, 981-90	17
1498	Genetic damage, but limited evidence of oxidative stress markers in diethyl maleate-induced glutathione depleted mouse lymphoma L5178Y (TK(+/-)) cell cultures. <b>2012</b> , 22, 547-54	3
1497	Mitochondria and mitophagy: the yin and yang of cell death control. <b>2012</b> , 111, 1208-21	537
1496	Mitochondrial mitophagic mechanisms of myocardial matrix metabolism and remodelling. <b>2012</b> , 118, 31-42	21
1495	Meis1 regulates the metabolic phenotype and oxidant defense of hematopoietic stem cells. <b>2012</b> , 120, 4963-72	146

1494	A mitochondria-localized two-photon fluorescent probe for ratiometric imaging of hydrogen peroxide in live tissue. <b>2012</b> , 48, 3518-20	139
1493	Mechanisms of action for light therapy: a review of molecular interactions. <b>2012</b> , 237, 1241-8	52
1492	Oxidative stress biomarkers in patients with untreated obstructive sleep apnea syndrome. <b>2012</b> , 13, 632-6	57
1491	Dietary inorganic nitrate alleviates doxorubicin cardiotoxicity: mechanisms and implications. <b>2012</b> , 26, 274-84	34
1490	Effect of antioxidants resveratrol and quercetin on in vitro evaluation of frozen ram sperm. <b>2012</b> , 77, 1722-6	88
1489	Carbon monoxide: a vital signalling molecule and potent toxin in the myocardium. <b>2012</b> , 52, 359-65	56
1488	Superoxide flashes: elemental events of mitochondrial ROS signaling in the heart. <b>2012</b> , 52, 940-8	46
1487	Central role of mitochondria in drug-induced liver injury. <b>2012</b> , 44, 34-87	178
1486	Hypoxic pulmonary vasoconstriction. <b>2012</b> , 92, 367-520	444
1485	Cisplatin-induced nephrotoxicity and targets of nephroprotection: an update. <b>2012</b> , 86, 1233-50	243
1484	Differences in tissue concentrations of hydrogen peroxide in the roots and cotyledons of annual and perennial species of flax ( <i>Linum</i> ). <b>2012</b> , 90, 1015-1027	3
1483	In vitro evaluation of ram sperm frozen with glycerol, ethylene glycol or acetamide. <b>2012</b> , 132, 155-8	19
1482	Birds and longevity: does flight driven aerobicity provide an oxidative sink?. <b>2012</b> , 11, 242-53	23
1481	A variant in myeloperoxidase promoter hastens the emergence of hepatocellular carcinoma in patients with HCV-related cirrhosis. <b>2012</b> , 56, 426-32	36
1480	Mechanisms by which pesticides affect insect immunity. <b>2012</b> , 109, 175-82	149
1479	Age-dependent responses to renal ischemia-reperfusion injury. <b>2012</b> , 172, 153-8	32
1478	Human atrial natriuretic peptide attenuates renal ischemia-reperfusion injury. <b>2012</b> , 173, 348-53	16
1477	Induction of mitochondrial dysfunction and oxidative stress in human fibroblast cultures exposed to serum from septic patients. <b>2012</b> , 91, 237-43	25

1476	Rapamycin reduces oxidative stress in frataxin-deficient yeast cells. <b>2012</b> , 12, 156-61	30
1475	Functionalized nanosystems for targeted mitochondrial delivery. <b>2012</b> , 12, 190-201	55
1474	Mitochondrial dynamics and neuronal fate in Parkinson's disease. <b>2012</b> , 12, 428-37	42
1473	Brain edema in diseases of different etiology. <b>2012</b> , 61, 166-74	16
1472	Molecular hydrogen is a novel antioxidant to efficiently reduce oxidative stress with potential for the improvement of mitochondrial diseases. <b>2012</b> , 1820, 586-94	119
1471	Protein-oxidized phospholipid interactions in cellular signaling for cell death: from biophysics to clinical correlations. <b>2012</b> , 1818, 2446-55	49
1470	The sterile immune response during hepatic ischemia/reperfusion. <b>2012</b> , 23, 69-84	122
1469	Effects of salinity on O <sub>2</sub> consumption, ROS generation and oxidative stress status of gill mitochondria of the mud crab <i>Scylla serrata</i> . <b>2012</b> , 155, 228-37	25
1468	8-Oxoguanine DNA glycosylase 1 (OGG1) from the copepod <i>Tigriopus japonicus</i> : molecular characterization and its expression in response to UV-B and heavy metals. <b>2012</b> , 155, 290-9	4
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1466	Mitochondrial respiratory chain dysfunction: implications in neurodegeneration. <b>2012</b> , 53, 595-609	115
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1269	Metals, oxidative stress and neurodegeneration: a focus on iron, manganese and mercury. <b>2013</b> , 62, 575-94	347
1268	Brief early-life non-specific incorporation of deuterium extends mean life span in <i>Drosophila melanogaster</i> without affecting fecundity. <b>2013</b> , 16, 98-104	6
1267	Synthesis and antioxidant activity of O-alkyl selenocarbamates, selenoureas and selenohydantoins. <b>2013</b> , 48, 582-92	31
1266	Role of redox metabolism for adaptation of aquatic animals to drastic changes in oxygen availability. <b>2013</b> , 165, 384-404	101
1265	Targeting the mitochondrial electron transport chain in autism, a systematic review and synthesis of a novel therapeutic approach. <b>2013</b> , 13, 515-9	27
1264	Genetics and iron in the systems biology of Parkinson's disease and some related disorders. <b>2013</b> , 62, 637-52	53
1263	RNase P enzymes: divergent scaffolds for a conserved biological reaction. <b>2013</b> , 10, 909-14	33
1262	The role of mitochondrial dehydrogenases in the generation of oxidative stress. <b>2013</b> , 62, 757-63	53
1261	Boron chemicals in diagnosis and therapeutics. <b>2013</b> , 5, 653-76	153

1260	Can mitochondrial dysfunction be initiated by dissociative electron attachment to xenobiotics? <b>2013</b> , 15, 9125-35	31
1259	Reduction of reactive oxygen species ameliorates metabolism-secretion coupling in islets of diabetic GK rats by suppressing lactate overproduction. <b>2013</b> , 62, 1996-2003	26
1258	Recent methodological advances in the analysis of protein tyrosine nitration. <b>2013</b> , 14, 3095-102	9
1257	Targeting apoptosis pathways in cancer by Chinese medicine. <b>2013</b> , 332, 304-12	224
1256	A traditional Chinese medicine JiuHuangLian (Rhizoma coptidis steamed with rice wine) reduces oxidative stress injury in type 2 diabetic rats. <b>2013</b> , 59, 222-9	21
1255	NLRP3 inflammasome activation induced by engineered nanomaterials. <b>2013</b> , 9, 1595-607	140
1254	Neuroprotective properties of the excitatory amino acid carrier 1 (EAAC1). <b>2013</b> , 45, 133-42	38
1253	Effects of alkyl side chain modification of coenzyme Q10 on mitochondrial respiratory chain function and cytoprotection. <b>2013</b> , 21, 2346-2354	17
1252	On the biochemical and molecular mechanisms by which malathion induces dysfunction in pancreatic islets in vivo and in vitro. <b>2013</b> , 106, 51-60	19
1251	Fibroblasts cultured on nanowires exhibit low motility, impaired cell division, and DNA damage. <b>2013</b> , 9, 4006-16, 3905	83
1250	Oxidative stress and pathological changes after coronary artery interventions. <b>2013</b> , 61, 1471-81	76
1249	Redox signaling in cardiovascular health and disease. <b>2013</b> , 61, 473-501	144
1248	Differential effects of complex II on mitochondrial ROS production and their relation to cardioprotective pre- and postconditioning. <b>2013</b> , 1827, 578-87	120
1247	Mitochondrial metabolism in aging: effect of dietary interventions. <b>2013</b> , 12, 22-8	13
1246	lipoic acid protects dopaminergic neurons against MPP <sup>+</sup> -induced apoptosis by attenuating reactive oxygen species formation. <b>2013</b> , 32, 108-14	33
1245	Differential regulation of $\alpha$ -glutamyltransferase and glutamate cysteine ligase expression after mitochondrial uncoupling: $\alpha$ -glutamyltransferase is regulated in an Nrf2- and NFB-independent manner. <b>2013</b> , 47, 394-403	11
1244	Oxidant Stress, Antioxidant Defense, and Liver Injury. <b>2013</b> , 71-84	4
1243	Increased systemic oxidatively generated DNA and RNA damage in schizophrenia. <b>2013</b> , 209, 417-23	66

1242	An optimized pyrimidinol multifunctional radical quencher. <b>2013</b> , 4, 724-9	10
1241	Herba Cistanches stimulates cellular glutathione redox cycling by reactive oxygen species generated from mitochondrial respiration in H9c2 cardiomyocytes. <b>2013</b> , 51, 64-73	28
1240	Peroxynitrite formation in nitric oxide-exposed submitochondrial particles: detection, oxidative damage and catalytic removal by Mn-porphyrins. <b>2013</b> , 529, 45-54	29
1239	Function of plastochromanol and other biological prenyllipids in the inhibition of lipid peroxidation-A comparative study in model systems. <b>2013</b> , 1828, 233-40	28
1238	Targeting mitochondria in the infection strategy of the hepatitis C virus. <b>2013</b> , 45, 156-66	21
1237	Uncoupling protein 1 dependent reactive oxygen species production by thymus mitochondria. <b>2013</b> , 45, 81-9	15
1236	Quantitation of hydrogen peroxide fluctuations and their modulation of dopamine dynamics in the rat dorsal striatum using fast-scan cyclic voltammetry. <b>2013</b> , 4, 782-9	65
1235	Fluorogenic Trolox analogue for monitoring the antioxidant status within the inner mitochondrial membrane of live cells. <b>2013</b> , 135, 17135-43	63
1234	Molecular pathways: reactive oxygen species homeostasis in cancer cells and implications for cancer therapy. <b>2013</b> , 19, 4309-14	323
1233	The mitochondrial disease associated protein Ndufa2 is dispensable for Complex-1 assembly but critical for the regulation of oxidative stress. <b>2013</b> , 58, 57-67	17
1232	Redox regulation of insulin sensitivity due to enhanced fatty acid utilization in the mitochondria. <b>2013</b> , 305, H634-43	38
1231	Response of rat lung tissue to short-term hyperoxia: a proteomic approach. <b>2013</b> , 383, 231-42	5
1230	Hot and steady: Elevated temperatures do not enhance muscle disuse atrophy during prolonged aestivation in the ectotherm <i>Cyclorana alboguttata</i> . <b>2013</b> , 274, 165-74	6
1229	A review of the cardiovascular benefits and antioxidant properties of allicin. <b>2013</b> , 27, 637-46	119
1228	Novel Fluorometric Tool to Assess Mitochondrial Redox State of Isolated Perfused Rat Lungs after Exposure to Hyperoxia. <b>2013</b> , 1,	10
1227	Nutritional interventions to alleviate the negative consequences of heat stress. <b>2013</b> , 4, 267-76	123
1226	Hepatoprotective Role of Ethanolic Extract of <i>Vitex negundo</i> in Thioacetamide-Induced Liver Fibrosis in Male Rats. <b>2013</b> , 2013, 739850	30
1225	C-Terminal Binding Protein: A Molecular Link between Metabolic Imbalance and Epigenetic Regulation in Breast Cancer. <b>2013</b> , 2013, 647975	30

1224	Modulation of T Cell Metabolism and Function through Calcium Signaling. <b>2013</b> , 4, 324	64
1223	Postresuscitation cyclosporine treatment attenuates myocardial and cardiac mitochondrial injury in newborn piglets with asphyxia-reoxygenation. <b>2013</b> , 41, 1069-74	9
1222	An inherited heteroplasmic mutation in mitochondrial gene COI in a patient with prostate cancer alters reactive oxygen, reactive nitrogen and proliferation. <b>2013</b> , 2013, 239257	25
1221	Dissecting the integrative antioxidant and redox systems in plant mitochondria. Effect of stress and S-nitrosylation. <b>2013</b> , 4, 460	61
1220	Antiapoptotic Effects of EGb 761. <b>2013</b> , 2013, 495703	13
1219	Mechanisms of nanoparticle-induced oxidative stress and toxicity. <b>2013</b> , 2013, 942916	863
1218	Mitochondrial dysfunction and neurodegeneration in multiple sclerosis. <b>2013</b> , 4, 169	51
1217	Oxidative stress and neurodegenerative disorders. <b>2013</b> , 14, 24438-75	249
1216	Fulvene-5 inhibition of Nadph oxidases attenuates activation of epithelial sodium channels in A6 distal nephron cells. <b>2013</b> , 305, F995-F1005	11
1215	Fast-twitch glycolytic skeletal muscle is predisposed to age-induced impairments in mitochondrial function. <b>2013</b> , 68, 1010-22	19
1214	Mitochondrial reactive oxygen species and vascular function: less is more. <b>2013</b> , 33, 673-5	12
1213	Hyperoxic acute lung injury. <b>2013</b> , 58, 123-41	255
1212	Pathogenesis of chagas cardiomyopathy: role of inflammation and oxidative stress. <b>2013</b> , 2, e000539	31
1211	RACK1/Asc1p, a ribosomal node in cellular signaling. <b>2013</b> , 12, 87-105	31
1210	Effects of hypoxia-cadmium interactions on rainbow trout ( <i>Oncorhynchus mykiss</i> ) mitochondrial bioenergetics: attenuation of hypoxia-induced proton leak by low doses of cadmium. <b>2014</b> , 217, 831-40	23
1209	UBIAD1-mediated vitamin K2 synthesis is required for vascular endothelial cell survival and development. <b>2013</b> , 140, 1713-9	34
1208	The Role of Mitochondria in Hypertension. <b>2013</b> , 305-312	
1207	Hematopoietic Stem Cells. <b>2013</b> , 251-277	1

1206	Influence of Active Hydrogen Discharged from Palladium-Nickel Alloy Powder on Biological Cells. <b>2013</b> , 699, 273-278	
1205	Rapid mitochondrial adjustments in response to short-term hypoxia and re-oxygenation in the Pacific oyster, <i>Crassostrea gigas</i> . <b>2013</b> , 216, 1561-9	49
1204	Mechanism of Cancer Cell Death Induced by Hydrogen Discharged from Palladium Base Hydrogen Storage Alloy. <b>2013</b> , 699, 284-290	
1203	The mitochondrial genome of <i>Arctica islandica</i> ; Phylogeny and variation. <b>2013</b> , 8, e82857	13
1202	Role of the cytoskeleton in communication between L-type Ca(2+) channels and mitochondria. <b>2013</b> , 40, 295-304	10
1201	Ablation of ceramide synthase 2 causes chronic oxidative stress due to disruption of the mitochondrial respiratory chain. <b>2013</b> , 288, 4947-56	126
1200	Neuroprotective Mechanisms of Taurine against Ischemic Stroke. <b>2013</b> , 3, 877-907	55
1199	Tolerance of bivalve mollusc hemocytes to variable oxygen availability: a mitochondrial origin?. <b>2013</b> , 26, 257-261	3
1198	The hallmarks of Parkinson's disease. <b>2013</b> , 280, 5981-93	139
1197	ROS regulation of microdomain Ca(2+) signalling at the dyads. <b>2013</b> , 98, 248-58	48
1196	Synthesis of pyrimidones and evaluation of their xanthine oxidase inhibitory and antioxidant activities. <b>2013</b> , 346, 805-11	2
1195	Multiscale measurement of cardiac energetics. <b>2013</b> , 40, 671-81	19
1194	The physiological response of the marine platyhelminth <i>Macrostomum lignano</i> to different environmental oxygen concentrations. <b>2013</b> , 216, 2741-51	25
1193	Mitochondrial metabolism as a regulator of keratinocyte differentiation. <b>2013</b> , 3, e25456	27
1192	Resistance to hypoxia-induced necroptosis is conferred by glycolytic pyruvate scavenging of mitochondrial superoxide in colorectal cancer cells. <b>2013</b> , 4, e622	72
1191	Hypericin-photodynamic therapy leads to interleukin-6 secretion by HepG2 cells and their apoptosis via recruitment of BH3 interacting-domain death agonist and caspases. <b>2013</b> , 4, e697	48
1190	Thymoquinone-induced reactive oxygen species causes apoptosis of chondrocytes via PI3K/Akt and p38kinase pathway. <b>2013</b> , 238, 811-20	33
1189	Negative regulation of 26S proteasome stability via calpain-mediated cleavage of Rpn10 subunit upon mitochondrial dysfunction in neurons. <b>2013</b> , 288, 12161-74	48

1188	The role of oxidative stress in Parkinson's disease. <b>2013</b> , 3, 461-91	875
1187	Phosphorylation of $\epsilon$ subunit in F1F0 ATP synthase is associated with increased iron uptake in iron-overloaded heart mitochondria. <b>2013</b> , 17, 406-412	1
1186	Visfatin affects redox adaptative responses and proliferation in Me45 human malignant melanoma cells: an in vitro study. <b>2013</b> , 29, 771-8	40
1185	Magnolol inhibits angiogenesis by regulating ROS-mediated apoptosis and the PI3K/AKT/mTOR signaling pathway in mES/EB-derived endothelial-like cells. <b>2013</b> , 43, 600-10	55
1184	2011 and 2012 Early Careers Achievement Awards: metabolic priorities during heat stress with an emphasis on skeletal muscle. <b>2013</b> , 91, 2492-503	53
1183	Cerium oxide nanoparticles protect rodent lungs from hypobaric hypoxia-induced oxidative stress and inflammation. <b>2013</b> , 8, 4507-20	63
1182	Effects of acupuncture and electroacupuncture on estradiol-induced inflammation and oxidative stress in health rodents. <b>2013</b> , 28, 582-8	11
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1180	The anorexigenic effect of serotonin is mediated by the generation of NADPH oxidase-dependent ROS. <b>2013</b> , 8, e53142	16
1179	Suppression of neuroinflammatory and apoptotic signaling cascade by curcumin alone and in combination with piperine in rat model of olfactory bulbectomy induced depression. <b>2013</b> , 8, e61052	76
1178	Crucial role of membrane potential in heat stress-induced overproduction of reactive oxygen species in avian skeletal muscle mitochondria. <b>2013</b> , 8, e64412	54
1177	The role of mechanical force and ROS in integrin-dependent signals. <b>2013</b> , 8, e64897	31
1176	DJ-1-dependent regulation of oxidative stress in the retinal pigment epithelium (RPE). <b>2013</b> , 8, e67983	30
1175	Mechanisms of Nrf2 protection in astrocytes as identified by quantitative proteomics and siRNA screening. <b>2013</b> , 8, e70163	15
1174	Hyperoxia decreases glycolytic capacity, glycolytic reserve and oxidative phosphorylation in MLE-12 cells and inhibits complex I and II function, but not complex IV in isolated mouse lung mitochondria. <b>2013</b> , 8, e73358	60
1173	Diet-sensitive sources of reactive oxygen species in liver mitochondria: role of very long chain acyl-CoA dehydrogenases. <b>2013</b> , 8, e77088	45
1172	Human surfactant protein D alters oxidative stress and HMGA1 expression to induce p53 apoptotic pathway in eosinophil leukemic cell line. <b>2013</b> , 8, e85046	36
1171	Gene specific modifications unravel ethanol and acetaldehyde actions. <b>2013</b> , 7, 80	13

1170	Concentration dependent effect of calcium on brain mitochondrial bioenergetics and oxidative stress parameters. <b>2013</b> , 5, 10	74
1169	Mitochondrial-targeted two-photon fluorescent probes for zinc ions, H <sub>2</sub> O <sub>2</sub> , and thiols in living tissues. <b>2013</b> , 2013, 323619	16
1168	Cerebroprotective effect of <i>Moringa oleifera</i> against focal ischemic stroke induced by middle cerebral artery occlusion. <b>2013</b> , 2013, 951415	45
1167	Sivelestat attenuates myocardial reperfusion injury during brief low flow postischemic infusion. <b>2013</b> , 2013, 279847	7
1166	Reactive oxygen species and the cardiovascular system. <b>2013</b> , 2013, 862423	89
1165	Oxidative stress and antioxidant activity in hypothermia and rewarming: can RONS modulate the beneficial effects of therapeutic hypothermia?. <b>2013</b> , 2013, 957054	44
1164	Molecular hydrogen: new antioxidant and anti-inflammatory therapy for rheumatoid arthritis and related diseases. <b>2013</b> , 19, 6375-81	87
1163	Anti-diabetic effects of aqueous and ethanol extract of <i>Dendropanax morbifera</i> Leveillein streptozotocin-induced diabetes model. <b>2014</b> , 47, 394	14
1162	Structural effects of methionine oxidation on isolated subdomains of human fibrin D and E regions. <b>2014</b> , 9, e86981	28
1161	Modulation of <i>Anopheles stephensi</i> gene expression by nitroquine, an antimalarial drug against <i>Plasmodium yoelii</i> infection in the mosquito. <b>2014</b> , 9, e89473	3
1160	Relaxin protects astrocytes from hypoxia in vitro. <b>2014</b> , 9, e90864	14
1159	Compositions and anti-tumor activity of <i>Pyropolyporus fomentarius</i> petroleum ether fraction in vitro and in vivo. <b>2014</b> , 9, e109599	3
1158	Rapid analysis of glycolytic and oxidative substrate flux of cancer cells in a microplate. <b>2014</b> , 9, e109916	92
1157	Malfunctioning of the iron-sulfur cluster assembly machinery in <i>Saccharomyces cerevisiae</i> produces oxidative stress via an iron-dependent mechanism, causing dysfunction in respiratory complexes. <b>2014</b> , 9, e111585	30
1156	The effect of tert-butyl hydroperoxide-induced oxidative stress on lean and steatotic rat hepatocytes in vitro. <b>2014</b> , 2014, 752506	65
1155	Oxidative stresses and mitochondrial dysfunction in age-related hearing loss. <b>2014</b> , 2014, 582849	95
1154	Potential role of carotenoids as antioxidants in human health and disease. <b>2014</b> , 6, 466-88	719
1153	S-glutathionylation reactions in mitochondrial function and disease. <b>2014</b> , 2, 68	80

1152	Curcumin induced human gastric cancer BGC-823 cells apoptosis by ROS-mediated ASK1-MKK4-JNK stress signaling pathway. <b>2014</b> , 15, 15754-65	62
1151	Reactive oxygen species (ROS) and response of antioxidants as ROS-scavengers during environmental stress in plants. <b>2014</b> , 2,	1151
1150	Glutathionylation of the L-type Ca <sup>2+</sup> channel in oxidative stress-induced pathology of the heart. <b>2014</b> , 15, 19203-25	14
1149	Effect of EPA and vitamin C on superoxide dismutase, glutathione peroxidase, total antioxidant capacity and malondialdehyde in type 2 diabetic patients. <b>2014</b> , 29, 39-45	18
1148	Analysis of spatial and temporal protein expression in the cerebral cortex after ischemia-reperfusion injury. <b>2014</b> , 10, 84-93	14
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1146	Cytoprotective Systems Within the Kidneys?. <b>2014</b> ,	1
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1144	Redefining the major contributors to superoxide production in contracting skeletal muscle. The role of NAD(P)H oxidases. <b>2014</b> , 48, 12-29	104
1143	Artesunate induces cell death in human cancer cells via enhancing lysosomal function and lysosomal degradation of ferritin. <b>2014</b> , 289, 33425-41	93
1142	Effect of elevated oxygen concentration on bacteria, yeasts, and cells propagated for production of biological compounds. <b>2014</b> , 13, 181	55
1141	Skeletal muscle atrophy in sedentary Zucker obese rats is not caused by calpain-mediated muscle damage or lipid peroxidation induced by oxidative stress. <b>2014</b> , 13, 19	12
1140	The avian embryo and its antioxidant defence system. <b>2014</b> , 70, 563-574	22
1139	Functional implications of mitochondrial reactive oxygen species generated by oncogenic viruses. <b>2014</b> , 9, 423-436	7
1138	Essential functions of iron-requiring proteins in DNA replication, repair and cell cycle control. <b>2014</b> , 5, 750-60	148
1137	Magnas functions as a ROS regulator and provides cytoprotection against oxidative stress-mediated damages. <b>2014</b> , 5, e1394	31
1136	Recent advances in mitochondrial turnover during chronic muscle disuse. <b>2014</b> , 3, 161-171	24
1135	NDC 75017 alleviates the learning and memory ability in aging rats by reducing mitochondrial dysfunction. <b>2014</b> , 8, 1841-1846	21



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1133	Mitochondria dysfunction in lung cancer-induced muscle wasting in C2C12 myotubes. <b>2014</b> , 5, 503	33
1132	Mitochondrial Targeted Endonuclease III DNA Repair Enzyme Protects against Ventilator Induced Lung Injury in Mice. <b>2014</b> , 7, 894-912	7
1131	Novel approach to reactive oxygen species in nontransfusion-dependent thalassemia. <b>2014</b> , 2014, 350432	12
1130	The impact of age-related dysregulation of the angiotensin system on mitochondrial redox balance. <b>2014</b> , 5, 439	44
1129	Molecular mechanisms of curcumin on diabetes-induced endothelial dysfunctions: Txnip, ICAM-1, and NOX2 expressions. <b>2014</b> , 2014, 161346	31
1128	A deficiency of apoptosis inducing factor (AIF) in Harlequin mouse heart mitochondria paradoxically reduces ROS generation during ischemia-reperfusion. <b>2014</b> , 5, 271	11
1127	Anti-inflammatory effects of ozonated water in an experimental mouse model. <b>2014</b> , 2, 671-674	22
1126	Transient complex I inhibition at the onset of reperfusion by extracellular acidification decreases cardiac injury. <b>2014</b> , 306, C1142-53	34
1125	An Intimate Relationship between ROS and Insulin Signalling: Implications for Antioxidant Treatment of Fatty Liver Disease. <b>2014</b> , 2014, 519153	28
1124	Methyl jasmonate: putative mechanisms of action on cancer cells cycle, metabolism, and apoptosis. <b>2014</b> , 2014, 572097	62
1123	Cytosolic peroxidases protect the lysosome of bloodstream African trypanosomes from iron-mediated membrane damage. <b>2014</b> , 10, e1004075	20
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1120	Surfactant protein SP-D modulates activity of immune cells: proteomic profiling of its interaction with eosinophilic cells. <b>2014</b> , 11, 355-69	19
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1118	Jumonji domain-containing protein 2B silencing induces DNA damage response via STAT3 pathway in colorectal cancer. <b>2014</b> , 110, 1014-26	30
1117	Enhanced hydrogen peroxide generation accompanies the beneficial bioenergetic effects of methylene blue in isolated brain mitochondria. <b>2014</b> , 77, 317-30	37

1116	Icaritin ameliorates carbon tetrachloride-induced acute liver injury mainly because of the antioxidative function through estrogen-like effects. <b>2014</b> , 50, 899-908	15
1115	Impact of caloric restriction on myocardial ischaemia/reperfusion injury and new therapeutic options to mimic its effects. <b>2014</b> , 171, 2964-92	20
1114	Palmitate induces reactive oxygen species production and $\beta$ -cell dysfunction by activating nicotinamide adenine dinucleotide phosphate oxidase through Src signaling. <b>2014</b> , 5, 19-26	34
1113	Obesity, metabolic syndrome, and disorders of energy balance. <b>2014</b> , 956-1014.e1	2
1112	The pathogenicity scoring system for mitochondrial tRNA mutations revisited. <b>2014</b> , 2, 107-14	18
1111	A mutation in the mitochondrial protein UQCRB promotes angiogenesis through the generation of mitochondrial reactive oxygen species. <b>2014</b> , 455, 290-7	23
1110	Selectivity in ROS-induced peptide backbone bond cleavage. <b>2014</b> , 118, 11399-404	15
1109	Phosphorescent iridium(iii) complexes as multicolour probes for imaging of hypochlorite ions in mitochondria. <b>2014</b> , 2, 7918-7926	69
1108	Designer aminoglycosides that selectively inhibit cytoplasmic rather than mitochondrial ribosomes show decreased ototoxicity: a strategy for the treatment of genetic diseases. <b>2014</b> , 289, 2318-30	81
1107	Measurement of ROS homeostasis in isolated mitochondria. <b>2014</b> , 547, 199-223	14
1106	Oxidative Stress, Neuroinflammation, and Neurodegeneration. <b>2014</b> , 81-104	4
1105	Cardiomyocyte-specific deficiency of ketone body metabolism promotes accelerated pathological remodeling. <b>2014</b> , 3, 754-69	99
1104	Effect of holding equine oocytes in meiosis inhibitor-free medium before in vitro maturation and of holding temperature on meiotic suppression and mitochondrial energy/redox potential. <b>2014</b> , 12, 99	24
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1102	Inhibition of the cardiac Na <sup>+</sup> channel Nav1.5 by carbon monoxide. <b>2014</b> , 289, 16421-9	12
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1099	NOX1, Reactive Oxygen Species, JNK, and Necrotic Cell Death. <b>2014</b> , 135-162	

1098	Ursolic Acid-enriched herba cynomorii extract induces mitochondrial uncoupling and glutathione redox cycling through mitochondrial reactive oxygen species generation: protection against menadione cytotoxicity in h9c2 cells. <b>2014</b> , 19, 1576-91	14
1097	Fruit removal increases root-zone respiration in cucumber. <b>2014</b> , 114, 1735-45	4
1096	Improvement of neuronal bioenergetics by neurosteroids: implications for age-related neurodegenerative disorders. <b>2014</b> , 1842, 2427-38	72
1095	A Drosophila model of mitochondrial disease caused by a complex I mutation that uncouples proton pumping from electron transfer. <b>2014</b> , 7, 1165-74	45
1094	The Beta Cell in Metabolic Syndrome. <b>2014</b> , 85-109	
1093	Mechanisms of ascorbyl radical formation in human platelet-rich plasma. <b>2014</b> , 2014, 614506	8
1092	Hydrogen gas presents a promising therapeutic strategy for sepsis. <b>2014</b> , 2014, 807635	51
1091	APE1/Ref-1 as an emerging therapeutic target for various human diseases: phytochemical modulation of its functions. <b>2014</b> , 46, e106	91
1090	Mitochondrial energy metabolism and redox signaling in brain aging and neurodegeneration. <b>2014</b> , 20, 353-71	163
1089	Zebrafish as a model system for mitochondrial biology and diseases. <b>2014</b> , 163, 79-98	32
1088	Mitochondria-targeted antioxidants for treatment of Parkinson's disease: preclinical and clinical outcomes. <b>2014</b> , 1842, 1282-94	215
1087	A multibiomarker approach to the assessment of pollution impacts in two Baltic Sea coastal areas in Sweden using caged mussels ( <i>Mytilus trossulus</i> ). <b>2014</b> , 473-474, 398-409	72
1086	Gamma-aminobutyric acid improves oxidative stress and function of the thyroid in high-fat diet fed mice. <b>2014</b> , 8, 76-86	30
1085	Comparative embryotoxicity of phenanthrene and alkyl-phenanthrene to marine medaka ( <i>Oryzias melastigma</i> ). <b>2014</b> , 85, 505-15	46
1084	Ranolazine in the prevention of anthracycline cardiotoxicity. <b>2014</b> , 79, 88-102	20
1083	Protein carbonylation as a major hallmark of oxidative damage: update of analytical strategies. <b>2014</b> , 33, 79-97	275
1082	Down-regulation of apurinic/apyrimidinic endonuclease 1 (APE1) in spinal motor neurones under oxidative stress. <b>2014</b> , 40, 435-51	7
1081	Cancer phototherapy via selective photoinactivation of respiratory chain oxidase to trigger a fatal superoxide anion burst. <b>2014</b> , 20, 733-46	65

1080	Modulation of redox regulatory molecules and electron transport chain activity in muscle of air breathing fish <i>Heteropneustes fossilis</i> under air exposure stress. <b>2014</b> , 184, 65-76	23
1079	Arctigenin, a dietary phytoestrogen, induces apoptosis of estrogen receptor-negative breast cancer cells through the ROS/p38 MAPK pathway and epigenetic regulation. <b>2014</b> , 67, 159-70	109
1078	Advanced glycation end-products impair Na <sup>+</sup> /K <sup>+</sup> -ATPase activity in diabetic cardiomyopathy: role of the adenosine monophosphate-activated protein kinase/sirtuin 1 pathway. <b>2014</b> , 41, 127-33	40
1077	Acute hypoxia produces a superoxide burst in cells. <b>2014</b> , 71, 146-156	79
1076	Role of mitochondria in mutant SOD1 linked amyotrophic lateral sclerosis. <b>2014</b> , 1842, 1295-301	79
1075	Neuroprotective effect of diphenyl diselenide in a experimental stroke model: maintenance of redox system in mitochondria of brain regions. <b>2014</b> , 26, 317-30	25
1074	Cellular membrane accommodation of copper-induced oxidative conditions in the coral <i>Seriatopora caliendrum</i> . <b>2014</b> , 148, 1-8	16
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