Victor M Darley-Usmar

List of Publications by Year
in descending order

314	33,457	3159 92	4432 172
papers	citations	h-index	g-index

321	321	321	44500
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Measuring reactive oxygen and nitrogen species with fluorescent probes: challenges and limitations. Free Radical Biology and Medicine, 2012, 52, 1-6.	2.9	1,424
3	Hydrogen sulfide mediates the vasoactivity of garlic. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17977-17982.	7.1	724
4	Oxidative Stress Induces Vascular Calcification through Modulation of the Osteogenic Transcription Factor Runx2 by AKT Signaling. Journal of Biological Chemistry, 2008, 283, 15319-15327.	3.4	533
5	Deoxymyoglobin Is a Nitrite Reductase That Generates Nitric Oxide and Regulates Mitochondrial Respiration. Circulation Research, 2007, 100, 654-661.	4.5	532
6	Cellular mechanisms of redox cell signalling: role of cysteine modification in controlling antioxidant defences in response to electrophilic lipid oxidation products. Biochemical Journal, 2004, 378, 373-382.	3.7	531
7	Nitric oxide and oxygen radicals: a question of balance. FEBS Letters, 1995, 369, 131-135.	2.8	501
8	Hypoxia, red blood cells, and nitrite regulate NO-dependent hypoxic vasodilation. Blood, 2006, 107, 566-574.	1.4	444
9	The Simultaneous Generation of Superoxide and Nitric Oxide Can Initiate Lipid Peroxidation in Human Low Density Lipoprotein. Free Radical Research Communications, 1992, 17, 9-20.	1.8	411
10	Metformin reverses established lung fibrosis in a bleomycin model. Nature Medicine, 2018, 24, 1121-1127.	30.7	411
11	Biological aspects of reactive nitrogen species. Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1411, 385-400.	1.0	408
12	Integration of cellular bioenergetics with mitochondrial quality control and autophagy. Biological Chemistry, 2012, 393, 1485-1512.	2.5	376
13	Assessing bioenergetic function in response to oxidative stress by metabolic profiling. Free Radical Biology and Medicine, 2011, 51, 1621-1635.	2.9	372
14	Polarographic measurement of hydrogen sulfide production and consumption by mammalian tissues. Analytical Biochemistry, 2005, 341, 40-51.	2.4	338
15	Nitric oxide and peroxynitrite exert distinct effects on mitochondrial respiration which are differentially blocked by glutathione or glucose. Biochemical Journal, 1996, 314, 877-880.	3.7	322
16	A review of the mitochondrial and glycolytic metabolism in human platelets and leukocytes: Implications for their use as bioenergetic biomarkers. Redox Biology, 2014, 2, 206-210.	9.0	310
17	Autophagy as an essential cellular antioxidant pathway in neurodegenerative disease. Redox Biology, 2014, 2, 82-90.	9.0	303
18	Free Radicals, Mitochondria, and Oxidized Lipids. Circulation Research, 2006, 99, 924-932.	4.5	301

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19	Concentration-dependent Effects of Nitric Oxide on Mitochondrial Permeability Transition and Cytochrome cRelease. Journal of Biological Chemistry, 2000, 275, 20474-20479.	3.4	293
20	Mitochondrial reserve capacity in endothelial cells: The impact of nitric oxide and reactive oxygen species. Free Radical Biology and Medicine, 2010, 48, 905-914.	2.9	290
21	Cellular metabolic and autophagic pathways: Traffic control by redox signaling. Free Radical Biology and Medicine, 2013, 63, 207-221.	2.9	284
22	Blood radicals: reactive nitrogen species, reactive oxygen species, transition metal ions, and the vascular system. Pharmaceutical Research, 1996, 13, 649-662.	3.5	277
23	Nitric Oxide Regulation of Tissue Free Radical Injury. Chemical Research in Toxicology, 1996, 9, 809-820.	3.3	272
24	Mitochondria: regulators of signal transduction by reactive oxygen and nitrogen species 1,2 1Guest Editor: Harry Ischiropoulos 2This article is part of a series of reviews on â€œReactive Nitrogen Species, Tyrosine Nitration and Cell Signaling.â€•The full list of papers may be found on the homepage of the journal.. Free Radical Biology and Medicine, 2002, 33, 755-764.	2.9	272
25	What Part of NO Don't You Understand? Some Answers to the Cardinal Questions in Nitric Oxide Biology. Journal of Biological Chemistry, 2010, 285, 19699-19704.	3.4	269
26	Cell signalling by reactive lipid species: new concepts and molecular mechanisms. Biochemical Journal, 2012, 442, 453-464.	3.7	268
27	The Bioenergetic Health Index: a new concept in mitochondrial translational research. Clinical Science, 2014, 127, 367-373.	4.3	266
28	Nitration of Unsaturated Fatty Acids by Nitric Oxide-Derived Reactive Nitrogen Species Peroxynitrite, Nitrous Acid, Nitrogen Dioxide, and Nitronium Ion. Chemical Research in Toxicology, 1999, 12, 83-92.	3.3	260
29	Peroxynitrite modification of low-density lipoprotein leads to recognition by the macrophage scavenger receptor. FEBS Letters, 1993, 330, 181-185.	2.8	258
30	Importance of the bioenergetic reserve capacity in response to cardiomyocyte stress induced by 4-hydroxynonenal. Biochemical Journal, 2009, 424, 99-107.	3.7	246
31	Nitric Oxide Inhibition of Lipid Peroxidation:Â Kinetics of Reaction with Lipid Peroxyl Radicals and Comparison with Î±-Tocopherolâ€. Biochemistry, 1997, 36, 15216-15223.	2.5	240
32	Methods for defining distinct bioenergetic profiles in platelets, lymphocytes, monocytes, and neutrophils, and the oxidative burst from human blood. Laboratory Investigation, 2013, 93, 690-700.	3.7	237
33	A Causative Role for Redox Cycling of Myoglobin and Its Inhibition by Alkalinization in the Pathogenesis and Treatment of Rhabdomyolysis-induced Renal Failure. Journal of Biological Chemistry, 1998, 273, 31731-31737.	3.4	234
34	High fat diet induces dysregulation of hepatic oxygen gradients and mitochondrial function in vivo. Biochemical Journal, 2009, 417, 183-193.	3.7	228
35	Oxidases and peroxidases in cardiovascular and lung disease: New concepts in reactive oxygen species signaling. Free Radical Biology and Medicine, 2011, 51, 1271-1288.	2.9	218
36	Assessing Cardiac Metabolism. Circulation Research, 2016, 118, 1659-1701.	4.5	211

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37	Redox regulation of antioxidants, autophagy, and the response to stress: Implications for electrophile therapeutics. Free Radical Biology and Medicine, 2014, 71, 196-207.	2.9	207
38	Cell signaling by reactive nitrogen and oxygen species in atherosclerosis. Free Radical Biology and Medicine, 2000, 28, 1780-1794.	2.9	196
39	Nâ€acetylcysteine targets 5 lipoxygenaseâ€derived, toxic lipids and can synergize with prostaglandin E₂ to inhibit ferroptosis and improve outcomes following hemorrhagic stroke in mice. Annals of Neurology, 2018, 84, 854-872.	5.3	195
40	Mitochondrially targeted compounds and their impact on cellular bioenergetics. Redox Biology, 2013, 1, 86-93.	9.0	192
41	Prevention of diabetic nephropathy in Ins2+/â^'AkitaJ mice by the mitochondria-targeted therapy MitoQ. Biochemical Journal, 2010, 432, 9-19.	3.7	189
42	Human glutamate cysteine ligase gene regulation through the electrophile response element. Free Radical Biology and Medicine, 2004, 37, 1152-1159.	2.9	188
43	Inhibition of autophagy with bafilomycin and chloroquine decreases mitochondrial quality and bioenergetic function in primary neurons. Redox Biology, 2017, 11, 73-81.	9.0	188
44	The formation of nitric oxide donors from peroxynitrite. British Journal of Pharmacology, 1995, 116, 1999-2004.	5.4	181
45	Nanotransducers in cellular redox signaling: modification of thiols by reactive oxygen and nitrogen species. Trends in Biochemical Sciences, 2002, 27, 489-492.	7.5	178
46	Specific Modification of Mitochondrial Protein Thiols in Response to Oxidative Stress. Journal of Biological Chemistry, 2002, 277, 17048-17056.	3.4	173
47	Differentiation of SH-SY5Y cells to a neuronal phenotype changes cellular bioenergetics and the response to oxidative stress. Free Radical Biology and Medicine, 2011, 51, 2007-2017.	2.9	160
48	KEAP1â€"NRF2 signalling and autophagy in protection against oxidative and reductive proteotoxicity. Biochemical Journal, 2015, 469, 347-355.	3.7	160
49	High throughput two-dimensional blue-native electrophoresis: A tool for functional proteomics of mitochondria and signaling complexes. Proteomics, 2002, 2, 969.	2.2	158
50	Modification of the Mitochondrial Proteome in Response to the Stress of Ethanol-dependent Hepatotoxicity. Journal of Biological Chemistry, 2004, 279, 22092-22101.	3.4	158
51	Bioenergetic Profile Experiment using C2C12 Myoblast Cells. Journal of Visualized Experiments, 2010, , .	0.3	158
52	Acquisition of Temozolomide Chemoresistance in Gliomas Leads to Remodeling of Mitochondrial Electron Transport Chain. Journal of Biological Chemistry, 2010, 285, 39759-39767.	3.4	158
53	Hydrogen sulfide mediates vasoactivity in an O2-dependent manner. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H1953-H1960.	3.2	153
54	Mapping the Human Platelet Lipidome Reveals Cytosolic Phospholipase A2 as a Regulator of Mitochondrial Bioenergetics during Activation. Cell Metabolism, 2016, 23, 930-944.	16.2	150

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55	Formation of F₂-Isoprostanes During Oxidation of Human Low-Density Lipoprotein and Plasma by Peroxynitrite. Circulation Research, 1995, 77, 335-341.	4.5	145
56	Biphasic Effects of 15-Deoxy-Î" ^{12,14} -Prostaglandin J ₂ on Glutathione Induction and Apoptosis in Human Endothelial Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2001, 21, 1846-1851.	2.4	144
57	Metabolic Reprogramming Is Required for Myofibroblast Contractility and Differentiation. Journal of Biological Chemistry, 2015, 290, 25427-25438.	3.4	140
58	Mitochondria, nitric oxide, and cardiovascular dysfunction. Free Radical Biology and Medicine, 2002, 33, 1465-1474.	2.9	139
59	Modification of Cytochrome c by 4-hydroxy- 2-nonenal: Evidence for histidine, lysine, and arginine-aldehyde adducts. Journal of the American Society for Mass Spectrometry, 2004, 15, 1136-1147.	2.8	135
60	The oxidation of Î±-tocopherol in human low-density lipoprotein by the simultaneous generation of superoxide and nitric oxide. FEBS Letters, 1993, 326, 199-203.	2.8	134
61	Bioenergetic function in cardiovascular cells: The importance of the reserve capacity and its biological regulation. Chemico-Biological Interactions, 2011, 191, 288-295.	4.0	134
62	Hypothesis: the mitochondrial NOâ€¢ signaling pathway, and the transduction of nitrosative to oxidative cell signals: an alternative function for cytochrome C oxidase. Free Radical Biology and Medicine, 2002, 32, 370-374.	2.9	133
63	Hemin causes mitochondrial dysfunction in endothelial cells through promoting lipid peroxidation: the protective role of autophagy. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H1394-H1409.	3.2	130
64	Regulation of autophagy by protein post-translational modification. Laboratory Investigation, 2015, 95, 14-25.	3.7	130
65	Exosomal transfer of mitochondria from airway myeloid-derived regulatory cells to T cells. Redox Biology, 2018, 18, 54-64.	9.0	130
66	ProteinO-GlcNAcylation: a new signaling paradigm for the cardiovascular system. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H13-H28.	3.2	129
67	Peroxynitrite releases copper from caeruloplasmin: implications for atherosclerosis. FEBS Letters, 1994, 342, 49-52.	2.8	127
68	Glutaminolysis is required for transforming growth factor-Î²1â€"induced myofibroblast differentiation and activation. Journal of Biological Chemistry, 2018, 293, 1218-1228.	3.4	126
69	Interaction of electrophilic lipid oxidation products with mitochondria in endothelial cells and formation of reactive oxygen species. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H1777-H1787.	3.2	124
70	Biochemical Characterization of HumanS-Nitrosohemoglobin. Journal of Biological Chemistry, 1999, 274, 15487-15492.	3.4	123
71	Lung Tumor Cell-Derived Exosomes Promote M2 Macrophage Polarization. Cells, 2020, 9, 1303.	4.1	123
72	Oxidized LDL induces mitochondrially associated reactive oxygen/nitrogen species formation in endothelial cells. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H852-H861.	3.2	122

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73	Nitric Oxide-Dependent Induction of Glutathione Synthesis through Increased Expression of Î³-Glutamylcysteine Synthetase. Archives of Biochemistry and Biophysics, 1998, 358, 74-82.	3.0	118
74	Mitophagy mechanisms and role in human diseases. International Journal of Biochemistry and Cell Biology, 2014, 53, 127-133.	2.8	118
75	The induction of GSH synthesis by nanomolar concentrations of NO in endothelial cells: a role for Î³-glutamylcysteine synthetase and Î³-glutamyl transpeptidase. FEBS Letters, 1999, 448, 292-296.	2.8	115
76	Distinct Effects of Rotenone, 1-methyl-4-phenylpyridinium and 6-hydroxydopamine on Cellular Bioenergetics and Cell Death. PLoS ONE, 2012, 7, e44610.	2.5	115
77	Fatal Lactic Acidosis in Infancy with a Defect of Complex III of the Respiratory Chain. Pediatric Research, 1989, 25, 553-559.	2.3	114
78	Cytoprotection against Oxidative Stress and the Regulation of Glutathione Synthesis. Biological Chemistry, 2003, 384, 527-37.	2.5	114
79	Differential Effects of Antiretroviral Nucleoside Analogs on Mitochondrial Function in HepG2 Cells. Antimicrobial Agents and Chemotherapy, 2000, 44, 496-503.	3.2	113
80	Mechanisms of Cell Signaling by Nitric Oxide and Peroxynitrite: From Mitochondria to MAP Kinases. Antioxidants and Redox Signaling, 2001, 3, 215-229.	5.4	112
81	A novel approach to measure mitochondrial respiration in frozen biological samples. EMBO Journal, 2020, 39, e104073.	7.8	110
82	Nitrosation of Uric Acid by Peroxynitrite. Journal of Biological Chemistry, 1998, 273, 24491-24497.	3.4	109
83	Control of Mitochondrial Respiration by NO., Effects of Low Oxygen and Respiratory State. Journal of Biological Chemistry, 2003, 278, 31603-31609.	3.4	107
84	Nitroxia: The pathological consequence of dysfunction in the nitric oxideâ€“cytochrome c oxidase signaling pathway. Free Radical Biology and Medicine, 2005, 38, 297-306.	2.9	107
85	Glucose Stimulation of Transforming Growth Factor-Î² Bioactivity in Mesangial Cells Is Mediated by Thrombospondin-1. American Journal of Pathology, 2000, 157, 1353-1363.	3.8	105
86	The role of iNOS in alcohol-dependent hepatotoxicity and mitochondrial dysfunction in mice. Hepatology, 2004, 40, 565-573.	7.3	105
87	SIRT3 diminishes inflammation and mitigates endotoxin-induced acute lung injury. JCI Insight, 2019, 4, .	5.0	105
88	Accumulation of 15-deoxy-Î”12,14-prostaglandin J2 adduct formation with Keap1 over time: effects on potency for intracellular antioxidant defence induction. Biochemical Journal, 2008, 411, 297-306.	3.7	104
89	Mitochondrial Oxidative Phosphorylation Regulates the Fate Decision between Pathogenic Th17 and Regulatory T Cells. Cell Reports, 2020, 30, 1898-1909.e4.	6.4	103
90	Protein O-linked Î²-N-acetylglucosamine: A novel effector of cardiomyocyte metabolism and function. Journal of Molecular and Cellular Cardiology, 2012, 52, 538-549.	1.9	102

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91	Mitochondria-targeted ubiquinone (MitoQ) decreases ethanol-dependent micro and macro hepatosteatosis. Hepatology, 2011, 54, 153-163.	7.3	98
92	Metabolic Plasticity in Resting and Thrombin Activated Platelets. PLoS ONE, 2015, 10, e0123597.	2.5	98
93	Discovery and Optimization of Potent, Cell-Active Pyrazole-Based Inhibitors of Lactate Dehydrogenase (LDH). Journal of Medicinal Chemistry, 2017, 60, 9184-9204.	6.4	98
94	S-adenosylmethionine prevents chronic alcohol-induced mitochondrial dysfunction in the rat liver. American Journal of Physiology - Renal Physiology, 2006, 291, G857-G867.	3.4	97
95	Redox Cycling of Human Methaemoglobin by H₂O₂Yields Persistent Ferryl Iron and Protein Based Radicals. Free Radical Research, 1996, 25, 117-123.	3.3	96
96	O-GlcNAcylation and neurodegeneration. Brain Research Bulletin, 2017, 133, 80-87.	3.0	96
97	NADPH Oxidase 4 (Nox4) Suppresses Mitochondrial Biogenesis and Bioenergetics in Lung Fibroblasts via a Nuclear Factor Erythroid-derived 2-like 2 (Nrf2)-dependent Pathway. Journal of Biological Chemistry, 2017, 292, 3029-3038.	3.4	95
98	Addition of carbonic anhydrase 9 inhibitor SLC-0111 to temozolomide treatment delays glioblastoma growth in vivo. JCI Insight, 2017, 2, .	5.0	94
99	Role of cellular bioenergetics in smooth muscle cell proliferation induced by platelet-derived growth factor. Biochemical Journal, 2010, 428, 255-267.	3.7	93
100	Formation of nanomolar concentrations of S-nitroso-albumin in human plasma by nitric oxide. Free Radical Biology and Medicine, 2001, 31, 688-696.	2.9	91
101	Peroxynitrite and atherosclerosis. Biochemical Society Transactions, 1993, 21, 358-362.	3.4	90
102	Chlorination and Nitration of Soy Isoflavones. Archives of Biochemistry and Biophysics, 1999, 368, 265-275.	3.0	90
103	Reduction of Cu(II) by lipid hydroperoxides: implications for the copper-dependent oxidation of low-density lipoprotein. Biochemical Journal, 1997, 322, 425-433.	3.7	89
104	Cytochrome c is crosslinked to subunit II of cytochrome c oxidase by a water-soluble carbodiimide. Biochemistry, 1982, 21, 3857-3862.	2.5	87
105	Activation of Mitogen-Activated Protein Kinases by Lysophosphatidylcholine-Induced Mitochondrial Reactive Oxygen Species Generation in Endothelial Cells. American Journal of Pathology, 2006, 168, 1737-1748.	3.8	86
106	The role of GABARAPL1/GEC1 in autophagic flux and mitochondrial quality control in MDA-MB-436 breast cancer cells. Autophagy, 2014, 10, 986-1003.	9.1	86
107	Targeting Glycolysis through Inhibition of Lactate Dehydrogenase Impairs Tumor Growth in Preclinical Models of Ewing Sarcoma. Cancer Research, 2019, 79, 5060-5073.	0.9	86
108	Mitochondrial function in response to cardiac ischemia-reperfusion after oral treatment with quercetin. Free Radical Biology and Medicine, 2002, 32, 1220-1228.	2.9	85

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109	Nitric Oxide and cGMP-dependent Protein Kinase Regulation of Glucose-mediated Thrombospondin 1-dependent Transforming Growth Factor-Î² Activation in Mesangial Cells. Journal of Biological Chemistry, 2002, 277, 9880-9888.	3.4	84
110	Enhanced Cardiac Akt/Protein Kinase B Signaling Contributes to Pathological Cardiac Hypertrophy in Part by Impairing Mitochondrial Function via Transcriptional Repression of Mitochondrion-Targeted Nuclear Genes. Molecular and Cellular Biology, 2015, 35, 831-846.	2.3	84
111	Insulin-Like Growth Factors Are Key Regulators of T Helper 17 Regulatory T Cell Balance in Autoimmunity. Immunity, 2020, 52, 650-667.e10.	14.3	84
112	Fasting drives the metabolic, molecular and geroprotective effects of a calorie-restricted diet in mice. Nature Metabolism, 2021, 3, 1327-1341.	11.9	84
113	15-Lipoxygenase Catalytically Consumes Nitric Oxide and Impairs Activation of Guanylate Cyclase. Journal of Biological Chemistry, 1999, 274, 20083-20091.	3.4	83
114	Evidence for peroxynitrite as a signaling molecule in flow-dependent activation of c-Jun NH2-terminal kinase. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H1647-H1653.	3.2	81
115	Mitoquinone ameliorates pressure overload-induced cardiac fibrosis and left ventricular dysfunction in mice. Redox Biology, 2019, 21, 101100.	9.0	80
116	Mitochondrial genetic background modulates bioenergetics and susceptibility to acute cardiac volume overload. Biochemical Journal, 2013, 455, 157-167.	3.7	79
117	Regulation of vascular smooth muscle cell bioenergetic function by protein glutathiolation. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 285-295.	1.0	78
118	Estrogen Restores Endothelial Cell Function in an Experimental Model of Vascular Injury. Circulation, 1997, 96, 1624-1630.	1.6	78
119	l-Arginine Chlorination Products Inhibit Endothelial Nitric Oxide Production. Journal of Biological Chemistry, 2001, 276, 27159-27165.	3.4	75
120	Oxidative modification of hepatic mitochondria protein thiols: effect of chronic alcohol consumption. American Journal of Physiology - Renal Physiology, 2004, 286, G521-G527.	3.4	75
121	The Role of Autophagy, Mitophagy and Lysosomal Functions in Modulating Bioenergetics and Survival in the Context of Redox and Proteotoxic Damage: Implications for Neurodegenerative Diseases. , 2016, 7, 150.		75
122	Dynamic Imaging of LDH Inhibition in Tumors Reveals Rapid InÂVivo Metabolic Rewiring and Vulnerability to Combination Therapy. Cell Reports, 2020, 30, 1798-1810.e4.	6.4	73
123	Covalent complex between yeast cytochrome c and beef heart cytochrome c oxidase which is active in electron transfer. Biochemistry, 1981, 20, 7046-7053.	2.5	72
124	[47] Nitration of unsaturated fatty acids by nitric oxide-derived reactive species. Methods in Enzymology, 1999, 301, 454-470.	1.0	72
125	Enhanced Antioxidant Activity After Chlorination of Quercetin by Hypochlorous Acid. Alcoholism: Clinical and Experimental Research, 2001, 25, 434-443.	2.4	71
126	Role of calcium and superoxide dismutase in sensitizing mitochondria to peroxynitrite-induced permeability transition. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H39-H46.	3.2	71

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127	A biphasic effect of TNF-Î± in regulation of the Keap1/Nrf2 pathway in cardiomyocytes. Redox Biology, 2016, 9, 77-89.	9.0	71
128	Mechanisms of the interaction of nitroxyl with mitochondria. Biochemical Journal, 2004, 379, 359-366.	3.7	70
129	Peroxynitrite irreversibly decreases diastolic and systolic function in cardiac muscle. Free Radical Biology and Medicine, 1999, 27, 1386-1392.	2.9	67
130	O-GlcNAc regulation of autophagy and Î±-synuclein homeostasis; implications for Parkinsonâ€™s disease. Molecular Brain, 2017, 10, 32.	2.6	67
131	Cardiomyocyte mitochondrial oxidative stress and cytoskeletal breakdown in the heart with a primary volume overload. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H651-H663.	3.2	66
132	Obesity, Aerobic Exercise, and Vascular Disease: The Role of Oxidant Stress. Obesity, 2002, 10, 964-968.	4.0	65
133	Mitochondrial proteomics in free radical research. Free Radical Biology and Medicine, 2005, 38, 175-188.	2.9	65
134	Induction of the permeability transition and cytochrome c release by 15-deoxy-Î”12,14-prostaglandin J2 in mitochondria. Biochemical Journal, 2006, 394, 185-195.	3.7	65
135	Mechanism by which Alcohol and Wine Polyphenols Affect Coronary Heart Disease Risk. Annals of Epidemiology, 2007, 17, S24-S31.	1.9	64
136	Bioenergetic and autophagic control by Sirt3Âin response to nutrient deprivation in mouse embryonic fibroblasts. Biochemical Journal, 2013, 454, 249-257.	3.7	64
137	Polyphenols, Inflammatory Response, and Cancer Prevention: Chlorination of Isoflavones by Human Neutrophils. Journal of Nutrition, 2003, 133, 3773S-3777S.	2.9	63
138	Effects of pyrrolidine dithiocarbamate on endothelial cells: protection against oxidative stress. Free Radical Biology and Medicine, 1999, 26, 1138-1145.	2.9	62
139	Beyond ERÎ± and ERÎ²: Estrogen Receptor Binding Is Only Part of the Isoflavone Story. Journal of Nutrition, 2000, 130, 656S-657S.	2.9	62
140	Induction of glutathione synthesis by oxidized low-density lipoprotein and 1-palmitoyl-2-arachidonyl phosphatidylcholine: protection against quinone-mediated oxidative stress. Biochemical Journal, 2002, 362, 51-59.	3.7	62
141	Chronic exposure to nitric oxide alters the free iron pool in endothelial cells: Role of mitochondrial respiratory complexes and heat shock proteins. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 384-389.	7.1	62
142	Changes in Mitochondrial Matrix Free Calcium in Perfused Rat Hearts Subjected to Hypoxia-Reoxygenation. Journal of Molecular and Cellular Cardiology, 1993, 25, 949-958.	1.9	61
143	Nitric oxide and hypoxia exacerbate alcohol-induced mitochondrial dysfunction in hepatocytes. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1573-1582.	1.0	61
144	Bioenergetics and the Oxidative Burst: Protocols for the Isolation and Evaluation of Human Leukocytes and Platelets. Journal of Visualized Experiments, 2014, , .	0.3	61

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145	Endothelial dysfunction is induced by proinflammatory oxidant hypochlorous acid. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H1469-H1475.	3.2	60
146	Inhibition of mitochondrial protein synthesis results in increased endothelial cell susceptibility to nitric oxide-induced apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6643-6648.	7.1	60
147	Mitochondria-targeted heme oxygenase-1 decreases oxidative stress in renal epithelial cells. American Journal of Physiology - Renal Physiology, 2013, 305, F255-F264.	2.7	59
148	Integrative metabolomics and transcriptomics signatures of clinical tolerance to Plasmodium vivax reveal activation of innate cell immunity and T cell signaling. Redox Biology, 2018, 17, 158-170.	9.0	59
149	The electron transfer system of Pseudomonas aeruginosa: a study of the pH-dependent transitions between redox forms of azurin and cytochrome c551. Journal of Inorganic Biochemistry, 1981, 14, 327-338.	3.5	58
150	Novel interactions of mitochondria and reactive oxygen/nitrogen species in alcohol mediated liver disease. World Journal of Gastroenterology, 2007, 13, 4967.	3.3	58
151	Mitochondrial function and autophagy: integrating proteotoxic, redox, and metabolic stress in Parkinson's disease. Journal of Neurochemistry, 2018, 144, 691-709.	3.9	58
152	Regulation of autophagy, mitochondrial dynamics, and cellular bioenergetics by 4-hydroxynonenal in primary neurons. Autophagy, 2017, 13, 1828-1840.	9.1	57
153	AMPK-ACC signaling modulates platelet phospholipids and potentiates thrombus formation. Blood, 2018, 132, 1180-1192.	1.4	57
154	Increased Sensitivity of Mitochondrial Respiration to Inhibition by Nitric Oxide in Cardiac Hypertrophy. Journal of Molecular and Cellular Cardiology, 2001, 33, 69-82.	1.9	56
155	SIRT1 regulates metabolism and leukemogenic potential in CML stem cells. Journal of Clinical Investigation, 2019, 129, 2685-2701.	8.2	56
156	Mitochondria and AMP-activated Protein Kinase-dependent Mechanism of Efferocytosis. Journal of Biological Chemistry, 2013, 288, 26013-26026.	3.4	55
157	Oxidized low-density lipoprotein and 15-deoxy-Î”12,14-PGJ2 increase mitochondrial complex I activity in endothelial cells. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H2298-H2308.	3.2	54
158	The Bioenergetic Health Index is a sensitive measure of oxidative stress in human monocytes. Redox Biology, 2016, 8, 43-50.	9.0	54
159	Enhanced Keap1-Nrf2 signaling protects the myocardium from isoproterenol-induced pathological remodeling in mice. Redox Biology, 2019, 27, 101212.	9.0	54
160	Mitochondrial targeting of the electrophilic lipid 15-deoxy-Î”12,14prostaglandin J2 increases apoptotic efficacy via redox cell signalling mechanisms. Biochemical Journal, 2010, 426, 31-41.	3.7	52
161	Genetic disruption of the cardiomyocyte circadian clock differentially influences insulin-mediated processes in the heart. Journal of Molecular and Cellular Cardiology, 2017, 110, 80-95.	1.9	52
162	Poldip2 is an oxygen-sensitive protein that controls PDH and Î±KGDH lipoylation and activation to support metabolic adaptation in hypoxia and cancer. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1789-1794.	7.1	52

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163	Chronic alcohol consumption increases the sensitivity of rat liver mitochondrial respiration to inhibition by nitric oxide. Hepatology, 2003, 38, 141-147.	7.3	51
164	The powerhouse takes control of the cell; the role of mitochondria in signal transduction. Free Radical Biology and Medicine, 2004, 37, 753-754.	2.9	51
165	The Electrophile Responsive Proteome: Integrating Proteomics and Lipidomics with Cellular Function. Antioxidants and Redox Signaling, 2012, 17, 1580-1589.	5.4	51
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