Anne Murphy

List of Publications by Year
in descending order

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120 papers	14,546 citations	19608 61 h-index	21474 114 g-index
127 all docs	127 docs citations	127 times ranked	22475 citing authors

#	Article	IF	Citations
1	Characterization of the human heart mitochondrial proteome. Nature Biotechnology, 2003, 21, 281-286.	9.4	665
2	Complex I-mediated reactive oxygen species generation: modulation by cytochrome c and NAD(P)+ oxidationâ€“reduction state. Biochemical Journal, 2002, 368, 545-553.	1.7	601
3	Increased Adipocyte O2 Consumption Triggers HIF-1Î±, Causing Inflammation and Insulin Resistance in Obesity. Cell, 2014, 157, 1339-1352.	13.5	443
4	Molecular aspects of tumor cell invasion and metastasis. Cancer, 1993, 71, 1368-1383.	2.0	441
5	High Throughput Microplate Respiratory Measurements Using Minimal Quantities Of Isolated Mitochondria. PLoS ONE, 2011, 6, e21746.	1.1	398
6	Bcl-2 potentiates the maximal calcium uptake capacity of neural cell mitochondria.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 9893-9898.	3.3	397
7	Parkin Protein Deficiency Exacerbates Cardiac Injury and Reduces Survival following Myocardial Infarction. Journal of Biological Chemistry, 2013, 288, 915-926.	1.6	383
8	AMPK dysregulation promotes diabetes-related reduction of superoxide and mitochondrial function. Journal of Clinical Investigation, 2013, 123, 4888-4899.	3.9	373
9	Analysis and Interpretation of Microplate-Based Oxygen Consumption and pH Data. Methods in Enzymology, 2014, 547, 309-354.	0.4	351
10	Immunoresponsive Gene 1 and Itaconate Inhibit Succinate Dehydrogenase to Modulate Intracellular Succinate Levels. Journal of Biological Chemistry, 2016, 291, 14274-14284.	1.6	342
11	Tissue inhibitor of metalloproteinases-2 inhibits bFGF-induced human microvascular endothelial cell proliferation. Journal of Cellular Physiology, 1993, 157, 351-358.	2.0	334
12	Branched-chain amino acid catabolism fuels adipocyte differentiation and lipogenesis. Nature Chemical Biology, 2016, 12, 15-21.	3.9	326
13	Mitochondria in Neurodegeneration: Acute Ischemia and Chronic Neurodegenerative Diseases. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 351-369.	2.4	324
14	Akt mediates mitochondrial protection in cardiomyocytes through phosphorylation of mitochondrial hexokinase-II. Cell Death and Differentiation, 2008, 15, 521-529.	5.0	300
15	Type IV collagenase(s) and TIMPs modulate endothelial cell morphogenesis in vitro. Journal of Cellular Physiology, 1993, 156, 235-246.	2.0	280
16	Mitochondria in Neurodegeneration: Bioenergetic Function in Cell Life and Death. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 231-245.	2.4	268
17	Etomoxir Actions on Regulatory and Memory T Cells Are Independent of Cpt1a-Mediated Fatty Acid Oxidation. Cell Metabolism, 2018, 28, 504-515.e7.	7.2	264
18	ChChd3, an Inner Mitochondrial Membrane Protein, Is Essential for Maintaining Crista Integrity and Mitochondrial Function. Journal of Biological Chemistry, 2011, 286, 2918-2932.	1.6	263

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19	MitoNEET is an iron-containing outer mitochondrial membrane protein that regulates oxidative capacity. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5318-5323.	3.3	251
20	Regulation of Substrate Utilization by the Mitochondrial Pyruvate Carrier. Molecular Cell, 2014, 56, 425-435.	4.5	243
21	MitoNEET is a uniquely folded 2Feâ€“2S outer mitochondrial membrane protein stabilized by pioglitazone. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14342-14347.	3.3	242
22	Etomoxir Inhibits Macrophage Polarization by Disrupting CoA Homeostasis. Cell Metabolism, 2018, 28, 490-503.e7.	7.2	242
23	Thiazolidinediones are acute, specific inhibitors of the mitochondrial pyruvate carrier. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5422-5427.	3.3	239
24	Genome-wide association meta-analysis of human longevity identifies a novel locus conferring survival beyond 90 years of age. Human Molecular Genetics, 2014, 23, 4420-4432.	1.4	227
25	IDH1 Mutations Alter Citric Acid Cycle Metabolism and Increase Dependence on Oxidative Mitochondrial Metabolism. Cancer Research, 2014, 74, 3317-3331.	0.4	224
26	Bnip3 impairs mitochondrial bioenergetics and stimulates mitochondrial turnover. Cell Death and Differentiation, 2011, 18, 721-731.	5.0	216
27	Review: Synovial Cell Metabolism and Chronic Inflammation in Rheumatoid Arthritis. Arthritis and Rheumatology, 2018, 70, 984-999.	2.9	210
28	Shift of the Cellular Oxidationâ€Reduction Potential in Neural Cells Expressing Bclâ€2. Journal of Neurochemistry, 1996, 67, 1259-1267.	2.1	203
29	Critical Role of Glucose Metabolism in Rheumatoid Arthritis Fibroblastâ€like Synoviocytes. Arthritis and Rheumatology, 2016, 68, 1614-1626.	2.9	197
30	Mitochondrial Cyclic AMP Response Element-binding Protein (CREB) Mediates Mitochondrial Gene Expression and Neuronal Survival. Journal of Biological Chemistry, 2005, 280, 40398-40401.	1.6	187
31	Mitochondrial Phosphatase PTPMT1 Is Essential for Cardiolipin Biosynthesis. Cell Metabolism, 2011, 13, 690-700.	7.2	176
32	Mitochondrial oxidative phosphorylation is a downstream regulator of nitric oxide effects on chondrocyte matrix synthesis and mineralization. Arthritis and Rheumatism, 2000, 43, 1560-1570.	6.7	172
33	(â€“)â€Epicatechin enhances fatigue resistance and oxidative capacity in mouse muscle. Journal of Physiology, 2011, 589, 4615-4631.	1.3	162
34	Elevated PGC-1Î± Activity Sustains Mitochondrial Biogenesis and Muscle Function without Extending Survival in a Mouse Model of Inherited ALS. Cell Metabolism, 2012, 15, 778-786.	7.2	158
35	Sirtuin 1 (SIRT1) Deacetylase Activity Is Not Required for Mitochondrial Biogenesis or Peroxisome Proliferator-activated Receptor-Î³ Coactivator-1Î± (PGC-1Î±) Deacetylation following Endurance Exercise. Journal of Biological Chemistry, 2011, 286, 30561-30570.	1.6	156
36	Mitochondrial ROS metabolism: 10 Years later. Biochemistry (Moscow), 2015, 80, 517-531.	0.7	149

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37	The Outer Mitochondrial Membrane Protein mitoNEET Contains a Novel Redox-active 2Fe-2S Cluster*. Journal of Biological Chemistry, 2007, 282, 23745-23749.	1.6	145
38	Identification of a Mitochondrial Target of Thiazolidinedione Insulin Sensitizers (mTOT)â€"Relationship to Newly Identified Mitochondrial Pyruvate Carrier Proteins. PLoS ONE, 2013, 8, e61551.	1.1	141
39	Inhibition of the mitochondrial pyruvate carrier protects from excitotoxic neuronal death. Journal of Cell Biology, 2017, 216, 1091-1105.	2.3	140
40	Choline Uptake and Metabolism Modulate Macrophage IL-1Î² and IL-18 Production. Cell Metabolism, 2019, 29, 1350-1362.e7.	7.2	140
41	Hexokinase 2 as a novel selective metabolic target for rheumatoid arthritis. Annals of the Rheumatic Diseases, 2018, 77, 1636-1643.	0.5	123
42	Monitoring phosphorylation of the pyruvate dehydrogenase complex. Analytical Biochemistry, 2009, 389, 157-164.	1.1	122
43	An entirely specific type I A-kinase anchoring protein that can sequester two molecules of protein kinase A at mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E1227-35.	3.3	121
44	Guidelines on experimental methods to assess mitochondrial dysfunction in cellular models of neurodegenerative diseases. Cell Death and Differentiation, 2018, 25, 542-572.	5.0	120
45	Invited review: the mitochondrion in osteoarthritis. Mitochondrion, 2002, 1, 301-319.	1.6	112
46	Distinct Metabolic States Can Support Self-Renewal and Lipogenesis in Human Pluripotent Stem Cells under Different Culture Conditions. Cell Reports, 2016, 16, 1536-1547.	2.9	112
47	A novel approach to measure mitochondrial respiration in frozen biological samples. EMBO Journal, 2020, 39, e104073.	3.5	110
48	Bclâ€2 Protects Neural Cells from Cyanide/Aglycemiaâ€Induced Lipid Oxidation, Mitochondrial Injury, and Loss of Viability. Journal of Neurochemistry, 1995, 65, 2432-2440.	2.1	109
49	Alterations in Skeletal Muscle Indicators of Mitochondrial Structure and Biogenesis in Patients with Type 2 Diabetes and Heart Failure: Effects of Epicatechin Rich Cocoa. Clinical and Translational Science, 2012, 5, 43-47.	1.5	107
50	Wolfram Syndrome protein, Miner1, regulates sulphydryl redox status, the unfolded protein response, and Ca ²⁺ homeostasis. EMBO Molecular Medicine, 2013, 5, 904-918.	3.3	101
51	Measuring Mitochondrial Function in Permeabilized Cells Using the Seahorse XF Analyzer or a Clarkâ€Type Oxygen Electrode. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2014, 60, 25.2.1-16.	1.1	98
52	Mitochondria frozen with trehalose retain a number of biological functions and preserve outer membrane integrity. Cell Death and Differentiation, 2007, 14, 616-624.	5.0	94
53	Mediation of spontaneous knee osteoarthritis by progressive chondrocyte ATP depletion in Hartley guinea pigs. Arthritis and Rheumatism, 2004, 50, 1216-1225.	6.7	90
54	Akt mediated mitochondrial protection in the heart: metabolic and survival pathways to the rescue. Journal of Bioenergetics and Biomembranes, 2009, 41, 169-180.	1.0	90

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55	Sestrin2 is induced by glucose starvation via the unfolded protein response and protects cells from non-canonical necroptotic cell death. Scientific Reports, 2016, 6, 22538.	1.6	85
56	Itaconate modulates tricarboxylic acid and redox metabolism to mitigate reperfusion injury. Molecular Metabolism, 2020, 32, 122-135.	3.0	83
57	HIV alters neuronal mitochondrial fission/fusion in the brain during HIV-associated neurocognitive disorders. Neurobiology of Disease, 2016, 86, 154-169.	2.1	79
58	GLP-1 Cleavage Product Reverses Persistent ROS Generation After Transient Hyperglycemia by Disrupting an ROS-Generating Feedback Loop. Diabetes, 2015, 64, 3273-3284.	0.3	72
59	Knockdown of ANT2 reduces adipocyte hypoxia and improves insulin resistance in obesity. Nature Metabolism, 2019, 1, 86-97.	5.1	71
60	Bombesin-like peptides elevate cytosolic calcium in small cell lung cancer cells. Biochemical and Biophysical Research Communications, 1987, 147, 189-195.	1.0	69
61	Excitotoxic Injury to Mitochondria Isolated from Cultured Neurons. Journal of Biological Chemistry, 2005, 280, 28894-28902.	1.6	67
62	Hypermetabolism, Hyperphagia, and Reduced Adiposity in Tankyrase-Deficient Mice. Diabetes, 2009, 58, 2476-2485.	0.3	67
63	Targeting and Import Mechanism of Coiled-coil Helix Coiled-coil Helix Domain-containing Protein 3 (ChChd3) into the Mitochondrial Intermembrane Space. Journal of Biological Chemistry, 2012, 287, 39480-39491.	1.6	61
64	Volatile Anesthetics Protect Cancer Cells against Tumor Necrosis Factor-related Apoptosis-inducing Ligand-induced Apoptosis viaÂ Caveolins. Anesthesiology, 2011, 115, 499-508.	1.3	59
65	TANK-Binding Kinase 1 Regulates the Localization of Acyl-CoA Synthetase ACSL1 to Control Hepatic Fatty Acid Oxidation. Cell Metabolism, 2020, 32, 1012-1027.e7.	7.2	59
66	Impaired mitophagy facilitates mitochondrial damage in Danon disease. Journal of Molecular and Cellular Cardiology, 2017, 108, 86-94.	0.9	57
67	Isotope-reinforced polyunsaturated fatty acids protect mitochondria from oxidative stress. Free Radical Biology and Medicine, 2015, 82, 63-72.	1.3	54
68	Mitochondria supply ATP to the ER through a mechanism antagonized by cytosolic Ca2+. ELife, 2019, 8, .	2.8	51
69	Mitochondrial Reprogramming Induced by CaMKIIÎ´ Mediates Hypertrophy Decompensation. Circulation Research, 2015, 116, e28-39.	2.0	47
70	Integrated InÂVivo Quantitative Proteomics and Nutrient Tracing Reveals Age-Related Metabolic Rewiring of Pancreatic Î² Cell Function. Cell Reports, 2018, 25, 2904-2918.e8.	2.9	44
71	LKB1 promotes metabolic flexibility in response to energy stress. Metabolic Engineering, 2017, 43, 208-217.	3.6	42
72	Intravenous (â^')-epicatechin reduces myocardial ischemic injury by protecting mitochondrial function. International Journal of Cardiology, 2014, 175, 297-306.	0.8	41

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73	Mitochondrial Dysfunction in NnaD Mutant Flies and Purkinje Cell Degeneration Mice Reveals a Role for Nna Proteins in Neuronal Bioenergetics. Neuron, 2010, 66, 835-847.	3.8	40
74	Current technical approaches to brain energy metabolism. Glia, 2018, 66, 1138-1159.	2.5	40
75	hNOA1 Interacts with Complex I and DAP3 and Regulates Mitochondrial Respiration and Apoptosis. Journal of Biological Chemistry, 2009, 284, 5414-5424.	1.6	39
76	Parkin does not prevent accelerated cardiac aging in mitochondrial DNA mutator mice. JCI Insight, 2019, 4, .	2.3	39
77	High-fat diet-induced impairment of skeletal muscle insulin sensitivity is not prevented by SIRT1 overexpression. American Journal of Physiology - Endocrinology and Metabolism, 2014, 307, E764-E772.	1.8	38
78	The minimal fragments of c-Raf-1 and NF1 that can suppress v-Ha-Ras-induced malignant phenotype. Journal of Biological Chemistry, 1994, 269, 30105-8.	1.6	38
79	Reversible phosphorylation of Rpn1 regulates 26S proteasome assembly and function. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 328-336.	3.3	35
80	Administration of thiazolidinediones for neuroprotection in ischemic stroke: a preâ€clinical systematic review. Journal of Neurochemistry, 2010, 115, 845-853.	2.1	33
81	Stroke outcome in the ketogenic state â€“ a systematic review of the animal data. Journal of Neurochemistry, 2012, 123, 52-57.	2.1	32
82	A Mitochondrial Mystery, Solved. Science, 2012, 337, 41-43.	6.0	32
83	Neutralization of Acidic Residues in Helix II Stabilizes the Folded Conformation of Acyl Carrier Protein and Variably Alters Its Function with Different Enzymes. Journal of Biological Chemistry, 2007, 282, 4494-4503.	1.6	31
84	Metformin Inhibits Progression of Head and Neck Squamous Cell Carcinoma by Acting Directly on Carcinoma-Initiating Cells. Cancer Research, 2019, 79, 4360-4370.	0.4	29
85	Mitochondrial biogenesis is altered in HIV+ brains exposed to ART: Implications for therapeutic targeting of astroglia. Neurobiology of Disease, 2019, 130, 104502.	2.1	29
86	Ca2+-Mediated Mitochondrial Dysfunction and the Protective Effects of Bcl-2. Annals of the New York Academy of Sciences, 1999, 893, 19-32.	1.8	28
87	A new non-canonical pathway of GÎ±q protein regulating mitochondrial dynamics and bioenergetics. Cellular Signalling, 2014, 26, 1135-1146.	1.7	28
88	Chronic fractalkine administration improves glucose tolerance and pancreatic endocrine function. Journal of Clinical Investigation, 2018, 128, 1458-1470.	3.9	27
89	Tenofovir disoproxil fumarate induces peripheral neuropathy and alters inflammation and mitochondrial biogenesis in the brains of mice. Scientific Reports, 2019, 9, 17158.	1.6	26
90	Genetic selection of short peptides that support protein oligomerization in vivo. Current Biology, 1999, 9, 417-420.	1.8	25

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91	Catecholamines suppress fatty acid re-esterification and increase oxidation in white adipocytes via STAT3. Nature Metabolism, 2020, 2, 620-634.	5.1	25
92	Dual Specificity Phosphatases 18 and 21 Target to Opposing Sides of the Mitochondrial Inner Membrane. Journal of Biological Chemistry, 2008, 283, 15440-15450.	1.6	24
93	Accumulation of Mitochondrial DNA Mutations Disrupts Cardiac Progenitor Cell Function and Reduces Survival. Journal of Biological Chemistry, 2015, 290, 22061-22075.	1.6	24
94	Cholinergic neural activity directs retinal layer-specific angiogenesis and blood retinal barrier formation. Nature Communications, 2019, 10, 2477.	5.8	24
95	Deuteriumâ€Stabilized (R)â€Pioglitazone (PXL065) Is Responsible for Pioglitazone Efficacy in NASH yet Exhibits Little to No PPARÎ³ Activity. Hepatology Communications, 2021, 5, 1412-1425.	2.0	23
96	NaCT/SLC13A5 facilitates citrate import and metabolism under nutrient-limited conditions. Cell Reports, 2021, 36, 109701.	2.9	23
97	Isozyme-specific Interaction of Protein Kinase Cΐ with Mitochondria Dissected Using Live Cell Fluorescence Imaging. Journal of Biological Chemistry, 2012, 287, 37891-37906.	1.6	22
98	Sub-nanowatt microfluidic single-cell calorimetry. Nature Communications, 2020, 11, 2982.	5.8	21
99	Effect of low-dose oral contraceptive on gonadotropins, androgens, and sex hormone binding globulin in nonhirsute women. Fertility and Sterility, 1990, 53, 35-9.	0.5	21
100	Preâ€clinical systematic review. Journal of Neurochemistry, 2010, 115, 805-805.	2.1	20
101	Bcl-2 and Ca2+-mediated mitochondrial dysfunction in neural cell death. Biochemical Society Symposia, 1999, 66, 33-41.	2.7	20
102	Challenges in managing genetic cancer risk: a long-term qualitative study of unaffected women carrying BRCA1/BRCA2 mutations. Genetics in Medicine, 2015, 17, 726-732.	1.1	17
103	In a flurry of PINK, mitochondrial bioenergetics takes a leading role in Parkinson's disease. EMBO Molecular Medicine, 2009, 1, 81-84.	3.3	16
104	Perm1 promotes cardiomyocyte mitochondrial biogenesis and protects against hypoxia/reoxygenation-induced damage in mice. Journal of Biological Chemistry, 2021, 297, 100825.	1.6	13
105	In situ measurements of mitochondrial matrix enzyme activities using plasma and mitochondrial membrane permeabilization agents. Analytical Biochemistry, 2018, 552, 60-65.	1.1	12
106	Induction of protein kinase C substrates, Myristoylated alanine-rich C kinase substrate (MARCKS) and MARCKS-related protein (MRP), by amyloid Î²-protein in mouse BV-2 microglial cells. Neuroscience Letters, 2003, 347, 9-12.	1.0	10
107	Proteomic and Metabolic Analyses of S49 Lymphoma Cells Reveal Novel Regulation of Mitochondria by cAMP and Protein Kinase A. Journal of Biological Chemistry, 2015, 290, 22274-22286.	1.6	9
108	Potential mechanisms of mitochondrial cytochrome-C release during apoptosis. , 1999, 46, 18-25.		7

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109	Analyzing Oxygen Consumption Rate in Primary Cultured Mouse Neonatal Cardiomyocytes Using an Extracellular Flux Analyzer. Journal of Visualized Experiments, 2019, , .	0.2	7
110	Calcium sensitive isocitrate and 2-oxoglutarate dehydrogenase activities in rat liver and AS-30D hepatoma mitochondria. Biochemical and Biophysical Research Communications, 1988, 157, 1218-1225.	1.0	5
111	Preserved cardiac function by vinculin enhances glucose oxidation and extends health- and life-span. APL Bioengineering, 2018, 2, .	3.3	5
112	Restoring energy in a power crisis: mitochondrial targets for drug development. Targets, 2003, 2, 208-216.	0.3	4
113	Effects of epicatechin rich cocoa on REDUX status in human skeletal muscle. FASEB Journal, 2012, 26, 888.11.	0.2	2
114	Do Two Mitochondrial Wrongs Help Make Cells Right?. Trends in Molecular Medicine, 2020, 26, 3-6.	3.5	1
115	ChChd3, an Inner Mitochondrial Membrane Protein is Essential for Maintaining Cristae Integrity and Mitochondrial Function. FASEB Journal, 2010, 24, 510.4.	0.2	1
116	Ca2+-Transport-Mediated Regulation of Metabolism in Hepatoma Mitochondria. Annals of the New York Academy of Sciences, 1988, 551, 253-255.	1.8	0
117	Cardiovascular Proteomics. , 2012, , 261-271.		0
118	Miner1, mutated in Wolfram Syndrome, is an endoplasmic reticulum protein that regulates cellular redox status and Ca2+ homeostasis. FASEB Journal, 2012, 26, 887.9.	0.2	0
119	Small Cell Lung Cancer Bombesin Receptors Utilize Calcium as a Second Messenger. , 1989, , 265-272.		0
120	Cyclic AMP/PKAâ€Mediated Regulation of Mitochondria and Branchedâ€Chain Amino Acid Metabolism in S49 Lymphoma Cells. FASEB Journal, 2015, 29, 896.5.	0.2	0