

Anne Murphy

List of Publications by Year in descending order

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Version: 2024-02-01

120
papers

14,546
citations

19657

61
h-index

21540

114
g-index

127
all docs

127
docs citations

127
times ranked

22475
citing authors

#	ARTICLE	IF	CITATIONS
1	Deuterium- ³ H-Stabilized (R)-Pioglitazone (PXL065) Is Responsible for Pioglitazone Efficacy in NASH yet Exhibits Little to No PPAR γ Activity. <i>Hepatology Communications</i> , 2021, 5, 1412-1425.	4.3	23
2	Perm1 promotes cardiomyocyte mitochondrial biogenesis and protects against hypoxia/reoxygenation-induced damage in mice. <i>Journal of Biological Chemistry</i> , 2021, 297, 100825.	3.4	13
3	NaCT/SLC13A5 facilitates citrate import and metabolism under nutrient-limited conditions. <i>Cell Reports</i> , 2021, 36, 109701.	6.4	23
4	Itaconate modulates tricarboxylic acid and redox metabolism to mitigate reperfusion injury. <i>Molecular Metabolism</i> , 2020, 32, 122-135.	6.5	83
5	Do Two Mitochondrial Wrongs Help Make Cells Right?. <i>Trends in Molecular Medicine</i> , 2020, 26, 3-6.	6.7	1
6	Reversible phosphorylation of Rpn1 regulates 26S proteasome assembly and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 328-336.	7.1	35
7	TANK-Binding Kinase 1 Regulates the Localization of Acyl-CoA Synthetase ACSL1 to Control Hepatic Fatty Acid Oxidation. <i>Cell Metabolism</i> , 2020, 32, 1012-1027.e7.	16.2	59
8	Sub-nanowatt microfluidic single-cell calorimetry. <i>Nature Communications</i> , 2020, 11, 2982.	12.8	21
9	Catecholamines suppress fatty acid re-esterification and increase oxidation in white adipocytes via STAT3. <i>Nature Metabolism</i> , 2020, 2, 620-634.	11.9	25
10	A novel approach to measure mitochondrial respiration in frozen biological samples. <i>EMBO Journal</i> , 2020, 39, e104073.	7.8	110
11	Metformin Inhibits Progression of Head and Neck Squamous Cell Carcinoma by Acting Directly on Carcinoma-Initiating Cells. <i>Cancer Research</i> , 2019, 79, 4360-4370.	0.9	29
12	Mitochondrial biogenesis is altered in HIV+ brains exposed to ART: Implications for therapeutic targeting of astroglia. <i>Neurobiology of Disease</i> , 2019, 130, 104502.	4.4	29
13	Cholinergic neural activity directs retinal layer-specific angiogenesis and blood retinal barrier formation. <i>Nature Communications</i> , 2019, 10, 2477.	12.8	24
14	Choline Uptake and Metabolism Modulate Macrophage IL-1 β and IL-18 Production. <i>Cell Metabolism</i> , 2019, 29, 1350-1362.e7.	16.2	140
15	Analyzing Oxygen Consumption Rate in Primary Cultured Mouse Neonatal Cardiomyocytes Using an Extracellular Flux Analyzer. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	7
16	Tenofovir disoproxil fumarate induces peripheral neuropathy and alters inflammation and mitochondrial biogenesis in the brains of mice. <i>Scientific Reports</i> , 2019, 9, 17158.	3.3	26
17	Knockdown of ANT2 reduces adipocyte hypoxia and improves insulin resistance in obesity. <i>Nature Metabolism</i> , 2019, 1, 86-97.	11.9	71
18	Parkin does not prevent accelerated cardiac aging in mitochondrial DNA mutator mice. <i>JCI Insight</i> , 2019, 4, .	5.0	39

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19	Mitochondria supply ATP to the ER through a mechanism antagonized by cytosolic Ca ²⁺ . <i>ELife</i> , 2019, 8, .	6.0	51
20	Review: Synovial Cell Metabolism and Chronic Inflammation in Rheumatoid Arthritis. <i>Arthritis and Rheumatology</i> , 2018, 70, 984-999.	5.6	210
21	In situ measurements of mitochondrial matrix enzyme activities using plasma and mitochondrial membrane permeabilization agents. <i>Analytical Biochemistry</i> , 2018, 552, 60-65.	2.4	12
22	Guidelines on experimental methods to assess mitochondrial dysfunction in cellular models of neurodegenerative diseases. <i>Cell Death and Differentiation</i> , 2018, 25, 542-572.	11.2	120
23	Current technical approaches to brain energy metabolism. <i>Glia</i> , 2018, 66, 1138-1159.	4.9	40
24	Integrated InÂVivo Quantitative Proteomics and Nutrient Tracing Reveals Age-Related Metabolic Rewiring of Pancreatic Î² Cell Function. <i>Cell Reports</i> , 2018, 25, 2904-2918.e8.	6.4	44
25	Etomoxir Inhibits Macrophage Polarization by Disrupting CoA Homeostasis. <i>Cell Metabolism</i> , 2018, 28, 490-503.e7.	16.2	242
26	Etomoxir Actions on Regulatory and Memory T Cells Are Independent of Cpt1a-Mediated Fatty Acid Oxidation. <i>Cell Metabolism</i> , 2018, 28, 504-515.e7.	16.2	264
27	Hexokinase 2 as a novel selective metabolic target for rheumatoid arthritis. <i>Annals of the Rheumatic Diseases</i> , 2018, 77, 1636-1643.	0.9	123
28	Preserved cardiac function by vinculin enhances glucose oxidation and extends health- and life-span. <i>APL Bioengineering</i> , 2018, 2, .	6.2	5
29	Chronic fractalkine administration improves glucose tolerance and pancreatic endocrine function. <i>Journal of Clinical Investigation</i> , 2018, 128, 1458-1470.	8.2	27
30	Inhibition of the mitochondrial pyruvate carrier protects from excitotoxic neuronal death. <i>Journal of Cell Biology</i> , 2017, 216, 1091-1105.	5.2	140
31	Impaired mitophagy facilitates mitochondrial damage in Danon disease. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 108, 86-94.	1.9	57
32	LKB1 promotes metabolic flexibility in response to energy stress. <i>Metabolic Engineering</i> , 2017, 43, 208-217.	7.0	42
33	Critical Role of Glucose Metabolism in Rheumatoid Arthritis Fibroblastâ€like Synoviocytes. <i>Arthritis and Rheumatology</i> , 2016, 68, 1614-1626.	5.6	197
34	Sestrin2 is induced by glucose starvation via the unfolded protein response and protects cells from non-canonical necroptotic cell death. <i>Scientific Reports</i> , 2016, 6, 22538.	3.3	85
35	Immunoresponsive Gene 1 and Itaconate Inhibit Succinate Dehydrogenase to Modulate Intracellular Succinate Levels. <i>Journal of Biological Chemistry</i> , 2016, 291, 14274-14284.	3.4	342
36	Distinct Metabolic States Can Support Self-Renewal and Lipogenesis in Human Pluripotent Stem Cells under Different Culture Conditions. <i>Cell Reports</i> , 2016, 16, 1536-1547.	6.4	112

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37	Branched-chain amino acid catabolism fuels adipocyte differentiation and lipogenesis. <i>Nature Chemical Biology</i> , 2016, 12, 15-21.	8.0	326
38	HIV alters neuronal mitochondrial fission/fusion in the brain during HIV-associated neurocognitive disorders. <i>Neurobiology of Disease</i> , 2016, 86, 154-169.	4.4	79
39	Isotope-reinforced polyunsaturated fatty acids protect mitochondria from oxidative stress. <i>Free Radical Biology and Medicine</i> , 2015, 82, 63-72.	2.9	54
40	Mitochondrial Reprogramming Induced by CaMKII β Mediates Hypertrophy Decompensation. <i>Circulation Research</i> , 2015, 116, e28-39.	4.5	47
41	Accumulation of Mitochondrial DNA Mutations Disrupts Cardiac Progenitor Cell Function and Reduces Survival. <i>Journal of Biological Chemistry</i> , 2015, 290, 22061-22075.	3.4	24
42	Mitochondrial ROS metabolism: 10 Years later. <i>Biochemistry (Moscow)</i> , 2015, 80, 517-531.	1.5	149
43	GLP-1 Cleavage Product Reverses Persistent ROS Generation After Transient Hyperglycemia by Disrupting an ROS-Generating Feedback Loop. <i>Diabetes</i> , 2015, 64, 3273-3284.	0.6	72
44	Proteomic and Metabolic Analyses of S49 Lymphoma Cells Reveal Novel Regulation of Mitochondria by cAMP and Protein Kinase A. <i>Journal of Biological Chemistry</i> , 2015, 290, 22274-22286.	3.4	9
45	Challenges in managing genetic cancer risk: a long-term qualitative study of unaffected women carrying BRCA1/BRCA2 mutations. <i>Genetics in Medicine</i> , 2015, 17, 726-732.	2.4	17
46	Cyclic AMP/PKA-Mediated Regulation of Mitochondria and Branched-Chain Amino Acid Metabolism in S49 Lymphoma Cells. <i>FASEB Journal</i> , 2015, 29, 896.5.	0.5	0
47	Analysis and Interpretation of Microplate-Based Oxygen Consumption and pH Data. <i>Methods in Enzymology</i> , 2014, 547, 309-354.	1.0	351
48	Intravenous (α)-epicatechin reduces myocardial ischemic injury by protecting mitochondrial function. <i>International Journal of Cardiology</i> , 2014, 175, 297-306.	1.7	41
49	Regulation of Substrate Utilization by the Mitochondrial Pyruvate Carrier. <i>Molecular Cell</i> , 2014, 56, 425-435.	9.7	243
50	High-fat diet-induced impairment of skeletal muscle insulin sensitivity is not prevented by SIRT1 overexpression. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 307, E764-E772.	3.5	38
51	Measuring Mitochondrial Function in Permeabilized Cells Using the Seahorse XF Analyzer or a Clark-type Oxygen Electrode. <i>Current Protocols in Toxicology</i> / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2014, 60, 25.2.1-16.	1.1	98
52	Genome-wide association meta-analysis of human longevity identifies a novel locus conferring survival beyond 90 years of age. <i>Human Molecular Genetics</i> , 2014, 23, 4420-4432.	2.9	227
53	IDH1 Mutations Alter Citric Acid Cycle Metabolism and Increase Dependence on Oxidative Mitochondrial Metabolism. <i>Cancer Research</i> , 2014, 74, 3317-3331.	0.9	224
54	A new non-canonical pathway of G1 α q protein regulating mitochondrial dynamics and bioenergetics. <i>Cellular Signalling</i> , 2014, 26, 1135-1146.	3.6	28

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55	Increased Adipocyte O ₂ Consumption Triggers HIF-1 α , Causing Inflammation and Insulin Resistance in Obesity. <i>Cell</i> , 2014, 157, 1339-1352.	28.9	443
56	Thiazolidinediones are acute, specific inhibitors of the mitochondrial pyruvate carrier. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5422-5427.	7.1	239
57	Parkin Protein Deficiency Exacerbates Cardiac Injury and Reduces Survival following Myocardial Infarction. <i>Journal of Biological Chemistry</i> , 2013, 288, 915-926.	3.4	383
58	Wolfram Syndrome protein, Miner1, regulates sulphhydryl redox status, the unfolded protein response, and Ca ²⁺ homeostasis. <i>EMBO Molecular Medicine</i> , 2013, 5, 904-918.	6.9	101
59	AMPK dysregulation promotes diabetes-related reduction of superoxide and mitochondrial function. <i>Journal of Clinical Investigation</i> , 2013, 123, 4888-4899.	8.2	373
60	Identification of a Mitochondrial Target of Thiazolidinedione Insulin Sensitizers (mTOT) Relationship to Newly Identified Mitochondrial Pyruvate Carrier Proteins. <i>PLoS ONE</i> , 2013, 8, e61551.	2.5	141
61	Isozyme-specific Interaction of Protein Kinase C β with Mitochondria Dissected Using Live Cell Fluorescence Imaging. <i>Journal of Biological Chemistry</i> , 2012, 287, 37891-37906.	3.4	22
62	Targeting and Import Mechanism of Coiled-coil Helix Coiled-coil Helix Domain-containing Protein 3 (ChChd3) into the Mitochondrial Intermembrane Space. <i>Journal of Biological Chemistry</i> , 2012, 287, 39480-39491.	3.4	61
63	Elevated PGC-1 α Activity Sustains Mitochondrial Biogenesis and Muscle Function without Extending Survival in a Mouse Model of Inherited ALS. <i>Cell Metabolism</i> , 2012, 15, 778-786.	16.2	158
64	Stroke outcome in the ketogenic state – a systematic review of the animal data. <i>Journal of Neurochemistry</i> , 2012, 123, 52-57.	3.9	32
65	Cardiovascular Proteomics. , 2012, , 261-271.		0
66	A Mitochondrial Mystery, Solved. <i>Science</i> , 2012, 337, 41-43.	12.6	32
67	Alterations in Skeletal Muscle Indicators of Mitochondrial Structure and Biogenesis in Patients with Type 2 Diabetes and Heart Failure: Effects of Epicatechin Rich Cocoa. <i>Clinical and Translational Science</i> , 2012, 5, 43-47.	3.1	107
68	Effects of epicatechin rich cocoa on REDUX status in human skeletal muscle. <i>FASEB Journal</i> , 2012, 26, 888.11.	0.5	2
69	Miner1, mutated in Wolfram Syndrome, is an endoplasmic reticulum protein that regulates cellular redox status and Ca ²⁺ homeostasis. <i>FASEB Journal</i> , 2012, 26, 887.9.	0.5	0
70	Sirtuin 1 (SIRT1) Deacetylase Activity Is Not Required for Mitochondrial Biogenesis or Peroxisome Proliferator-activated Receptor- β Coactivator-1 α (PGC-1 α) Deacetylation following Endurance Exercise. <i>Journal of Biological Chemistry</i> , 2011, 286, 30561-30570.	3.4	156
71	Mitochondrial Phosphatase PTPMT1 Is Essential for Cardiolipin Biosynthesis. <i>Cell Metabolism</i> , 2011, 13, 690-700.	16.2	176
72	High Throughput Microplate Respiratory Measurements Using Minimal Quantities Of Isolated Mitochondria. <i>PLoS ONE</i> , 2011, 6, e21746.	2.5	398

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73	Volatile Anesthetics Protect Cancer Cells against Tumor Necrosis Factor-related Apoptosis-inducing Ligand-induced Apoptosis <i>via</i> Caveolins. <i>Anesthesiology</i> , 2011, 115, 499-508.	2.5	59
74	(α)-Epicatechin enhances fatigue resistance and oxidative capacity in mouse muscle. <i>Journal of Physiology</i> , 2011, 589, 4615-4631.	2.9	162
75	Bnip3 impairs mitochondrial bioenergetics and stimulates mitochondrial turnover. <i>Cell Death and Differentiation</i> , 2011, 18, 721-731.	11.2	216
76	ChChd3, an Inner Mitochondrial Membrane Protein, Is Essential for Maintaining Crista Integrity and Mitochondrial Function. <i>Journal of Biological Chemistry</i> , 2011, 286, 2918-2932.	3.4	263
77	An entirely specific type I A-kinase anchoring protein that can sequester two molecules of protein kinase A at mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E1227-35.	7.1	121
78	Pre-clinical systematic review. <i>Journal of Neurochemistry</i> , 2010, 115, 805-805.	3.9	20
79	Administration of thiazolidinediones for neuroprotection in ischemic stroke: a pre-clinical systematic review. <i>Journal of Neurochemistry</i> , 2010, 115, 845-853.	3.9	33
80	Mitochondrial Dysfunction in NnaD Mutant Flies and Purkinje Cell Degeneration Mice Reveals a Role for Nna Proteins in Neuronal Bioenergetics. <i>Neuron</i> , 2010, 66, 835-847.	8.1	40
81	ChChd3, an Inner Mitochondrial Membrane Protein is Essential for Maintaining Cristae Integrity and Mitochondrial Function. <i>FASEB Journal</i> , 2010, 24, 510.4.	0.5	1
82	Hypermetabolism, Hyperphagia, and Reduced Adiposity in Tankyrase-Deficient Mice. <i>Diabetes</i> , 2009, 58, 2476-2485.	0.6	67
83	hNOA1 Interacts with Complex I and DAP3 and Regulates Mitochondrial Respiration and Apoptosis. <i>Journal of Biological Chemistry</i> , 2009, 284, 5414-5424.	3.4	39
84	In a flurry of PINK, mitochondrial bioenergetics takes a leading role in Parkinson's disease. <i>EMBO Molecular Medicine</i> , 2009, 1, 81-84.	6.9	16
85	Monitoring phosphorylation of the pyruvate dehydrogenase complex. <i>Analytical Biochemistry</i> , 2009, 389, 157-164.	2.4	122
86	Akt mediated mitochondrial protection in the heart: metabolic and survival pathways to the rescue. <i>Journal of Bioenergetics and Biomembranes</i> , 2009, 41, 169-180.	2.3	90
87	Akt mediates mitochondrial protection in cardiomyocytes through phosphorylation of mitochondrial hexokinase-II. <i>Cell Death and Differentiation</i> , 2008, 15, 521-529.	11.2	300
88	Dual Specificity Phosphatases 18 and 21 Target to Opposing Sides of the Mitochondrial Inner Membrane. <i>Journal of Biological Chemistry</i> , 2008, 283, 15440-15450.	3.4	24
89	Neutralization of Acidic Residues in Helix II Stabilizes the Folded Conformation of Acyl Carrier Protein and Variably Alters Its Function with Different Enzymes. <i>Journal of Biological Chemistry</i> , 2007, 282, 4494-4503.	3.4	31
90	MitoNEET is an iron-containing outer mitochondrial membrane protein that regulates oxidative capacity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5318-5323.	7.1	251

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91	MitoNEET is a uniquely folded 2Fe-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.	7.1	242
92	The Outer Mitochondrial Membrane Protein mitoNEET Contains a Novel Redox-active 2Fe-2S Cluster*. Journal of Biological Chemistry, 2007, 282, 23745-23749.	3.4	145
93	Mitochondria frozen with trehalose retain a number of biological functions and preserve outer membrane integrity. Cell Death and Differentiation, 2007, 14, 616-624.	11.2	94
94	Mitochondrial Cyclic AMP Response Element-binding Protein (CREB) Mediates Mitochondrial Gene Expression and Neuronal Survival. Journal of Biological Chemistry, 2005, 280, 40398-40401.	3.4	187
95	Excitotoxic Injury to Mitochondria Isolated from Cultured Neurons. Journal of Biological Chemistry, 2005, 280, 28894-28902.	3.4	67
96	Mediation of spontaneous knee osteoarthritis by progressive chondrocyte ATP depletion in Hartley guinea pigs. Arthritis and Rheumatism, 2004, 50, 1216-1225.	6.7	90
97	Restoring energy in a power crisis: mitochondrial targets for drug development. Targets, 2003, 2, 208-216.	0.3	4
98	Characterization of the human heart mitochondrial proteome. Nature Biotechnology, 2003, 21, 281-286.	17.5	665
99	Induction of protein kinase C substrates, Myristoylated alanine-rich C kinase substrate (MARCKS) and MARCKS-related protein (MRP), by amyloid β -protein in mouse BV-2 microglial cells. Neuroscience Letters, 2003, 347, 9-12.	2.1	10
100	Complex I-mediated reactive oxygen species generation: modulation by cytochrome c and NAD(P) ⁺ oxidation-reduction state. Biochemical Journal, 2002, 368, 545-553.	3.7	601
101	Invited review: the mitochondrion in osteoarthritis. Mitochondrion, 2002, 1, 301-319.	3.4	112
102	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
103	Ca ²⁺ -Mediated Mitochondrial Dysfunction and the Protective Effects of Bcl-2. Annals of the New York Academy of Sciences, 1999, 893, 19-32.	3.8	28
104	Mitochondria in Neurodegeneration: Bioenergetic Function in Cell Life and Death. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 231-245.	4.3	268
105	Mitochondria in Neurodegeneration: Acute Ischemia and Chronic Neurodegenerative Diseases. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 351-369.	4.3	324
106	Genetic selection of short peptides that support protein oligomerization in vivo. Current Biology, 1999, 9, 417-420.	3.9	25
107	Potential mechanisms of mitochondrial cytochrome-C release during apoptosis. , 1999, 46, 18-25.		7
108	Bcl-2 and Ca ²⁺ -mediated mitochondrial dysfunction in neural cell death. Biochemical Society Symposia, 1999, 66, 33-41.	2.7	20

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109	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.	7.1	397
110	Shift of the Cellular Oxidationâ€Reduction Potential in Neural Cells Expressing Bclâ€2. Journal of Neurochemistry, 1996, 67, 1259-1267.	3.9	203
111	Bclâ€2 Protects Neural Cells from Cyanide/Aglycemiaâ€Induced Lipid Oxidation, Mitochondrial Injury, and Loss of Viability. Journal of Neurochemistry, 1995, 65, 2432-2440.	3.9	109
112	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.	3.4	38
113	Molecular aspects of tumor cell invasion and metastasis. Cancer, 1993, 71, 1368-1383.	4.1	441
114	Type IV collagenase(s) and TIMPs modulate endothelial cell morphogenesis in vitro. Journal of Cellular Physiology, 1993, 156, 235-246.	4.1	280
115	Tissue inhibitor of metalloproteinases-2 inhibits bFGF-induced human microvascular endothelial cell proliferation. Journal of Cellular Physiology, 1993, 157, 351-358.	4.1	334
116	Effect of low-dose oral contraceptive on gonadotropins, androgens, and sex hormone binding globulin in nonhirsute women. Fertility and Sterility, 1990, 53, 35-9.	1.0	21
117	Small Cell Lung Cancer Bombesin Receptors Utilize Calcium as a Second Messenger. , 1989, , 265-272.		0
118	Ca2+-Transport-Mediated Regulation of Metabolism in Hepatoma Mitochondria. Annals of the New York Academy of Sciences, 1988, 551, 253-255.	3.8	0
119	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.	2.1	5
120	Bombesin-like peptides elevate cytosolic calcium in small cell lung cancer cells. Biochemical and Biophysical Research Communications, 1987, 147, 189-195.	2.1	69