Mary-Ellen Harper

List of Publications by Year
in descending order

189	14,228	22132	22147
papers	citations	59 h-index	113 g-index

194	194	194	18802
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mice lacking mitochondrial uncoupling protein are cold-sensitive but not obese. Nature, 1997, 387, 90-94.	13.7	1,251
2	Mitochondrial Dynamics Impacts Stem Cell Identity and Fate Decisions by Regulating a Nuclear Transcriptional Program. Cell Stem Cell, 2016, 19, 232-247.	5.2	469
3	Uncoupling proteins and the control of mitochondrial reactive oxygen species production. Free Radical Biology and Medicine, 2011, 51, 1106-1115.	1.3	460
4	Targeted Disruption of the Î²3-Adrenergic Receptor Gene. Journal of Biological Chemistry, 1995, 270, 29483-29492.	1.6	406
5	SirT1 Regulates Energy Metabolism and Response to Caloric Restriction in Mice. PLoS ONE, 2008, 3, e1759.	1.1	397
6	Role of Glutathione in Cancer: From Mechanisms to Therapies. Biomolecules, 2020, 10, 1429.	1.8	352
7	Loss of the Parkinson's disease-linked gene DJ-1 perturbs mitochondrial dynamics. Human Molecular Genetics, 2010, 19, 3734-3746.	1.4	343
8	Lack of Obesity and Normal Response to Fasting and Thyroid Hormone in Mice Lacking Uncoupling Protein-3. Journal of Biological Chemistry, 2000, 275, 16251-16257.	1.6	342
9	Adipose tissue reduction in mice lacking the translational inhibitor 4E-BP1. Nature Medicine, 2001, 7, 1128-1132.	15.2	341
10	OPA1â€dependent cristae modulation is essential for cellular adaptation to metabolic demand. EMBO Journal, 2014, 33, 2676-2691.	3.5	312
11	Physiological Role of UCP3 May Be Export of Fatty Acids from Mitochondria When Fatty Acid Oxidation Predominates: An Hypothesis. Experimental Biology and Medicine, 2001, 226, 78-84.	1.1	288
12	MicroRNA-133 Controls Brown Adipose Determination in Skeletal Muscle Satellite Cells by Targeting Prdm16. Cell Metabolism, 2013, 17, 210-224.	7.2	249
13	Unearthing the secrets of mitochondrial ROS and glutathione in bioenergetics. Trends in Biochemical Sciences, 2013, 38, 592-602.	3.7	241
14	Invited Review: Uncoupling proteins and thermoregulation. Journal of Applied Physiology, 2002, 92, 2187-2198.	1.2	228
15	Ageing, oxidative stress, and mitochondrial uncoupling. Acta Physiologica Scandinavica, 2004, 182, 321-331.	2.3	222
16	Electron Transport Chain-dependent and -independent Mechanisms of Mitochondrial H2O2 Emission during Long-chain Fatty Acid Oxidation. Journal of Biological Chemistry, 2010, 285, 5748-5758.	1.6	211
17	Î²3-Adrenergic Receptors on White and Brown Adipocytes Mediate Î²3-Selective Agonist-induced Effects on Energy Expenditure, Insulin Secretion, and Food Intake. Journal of Biological Chemistry, 1997, 272, 17686-17693.	1.6	200
18	Galactose Enhances Oxidative Metabolism and Reveals Mitochondrial Dysfunction in Human Primary Muscle Cells. PLoS ONE, 2011, 6, e28536.	1.1	198

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19	Physiological Increases in Uncoupling Protein 3 Augment Fatty Acid Oxidation and Decrease Reactive Oxygen Species Production Without Uncoupling Respiration in Muscle Cells. Diabetes, 2005, 54, 2343-2350.	0.3	194
20	Acylcarnitines: potential implications for skeletal muscle insulin resistance. FASEB Journal, 2015, 29, 336-345.	0.2	191
21	Reactive Oxygen Species and Oxidative Stress in Obesityâ€"Recent Findings and Empirical Approaches. Obesity, 2016, 24, 2301-2310.	1.5	185
22	Restriction of energy intake, energy expenditure, and aging. Free Radical Biology and Medicine, 2000, 29, 946-968.	1.3	182
23	Rb and p107 regulate preadipocyte differentiation into white versus brown fat through repression of PGC-1Î±. Cell Metabolism, 2005, 2, 283-295.	7.2	182
24	Characterization of a novel metabolic strategy used by drugâ€resistant tumor cells. FASEB Journal, 2002, 16, 1550-1557.	0.2	167
25	Macrophage Mitochondrial Energy Status Regulates Cholesterol Efflux and Is Enhanced by Anti-miR33 in Atherosclerosis. Circulation Research, 2015, 117, 266-278.	2.0	158
26	Glutathionylation Acts as a Control Switch for Uncoupling Proteins UCP2 and UCP3. Journal of Biological Chemistry, 2011, 286, 21865-21875.	1.6	156
27	Thyroid Hormone Effects on Mitochondrial Energetics. Thyroid, 2008, 18, 145-156.	2.4	145
28	Paradoxical resistance to diet-induced obesity in UCP1-deficient mice. Journal of Clinical Investigation, 2003, 111, 399-407.	3.9	145
29	Long-term caloric restriction increases UCP3 content but decreases proton leak and reactive oxygen species production in rat skeletal muscle mitochondria. American Journal of Physiology - Endocrinology and Metabolism, 2005, 289, E429-E438.	1.8	142
30	Acidosis overrides oxygen deprivation to maintain mitochondrial function and cell survival. Nature Communications, 2014, 5, 3550.	5.8	141
31	Effects of short- and medium-term calorie restriction on muscle mitochondrial proton leak and reactive oxygen species production. American Journal of Physiology - Endocrinology and Metabolism, 2004, 286, E852-E861.	1.8	138
32	Uncoupling proteinâ€3: clues in an ongoing mitochondrial mystery. FASEB Journal, 2007, 21, 312-324.	0.2	122
33	Constitutive UCP3 overexpression at physiological levels increases mouse skeletal muscle capacity for fatty acid transport and oxidation. FASEB Journal, 2005, 19, 977-979.	0.2	114
34	Decreased Mitochondrial Proton Leak and Reduced Expression of Uncoupling Protein 3 in Skeletal Muscle of Obese Diet-Resistant Women. Diabetes, 2002, 51, 2459-2466.	0.3	113
35	DNM1L-related mitochondrial fission defect presenting as refractory epilepsy. European Journal of Human Genetics, 2016, 24, 1084-1088.	1.4	113
36	The Efficiency of Cellular Energy Transduction and Its Implications for Obesity. Annual Review of Nutrition, 2008, 28, 13-33.	4.3	109

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37	Effects of Genetic Background on Thermoregulation and Fatty Acid-induced Uncoupling of Mitochondria in UCP1-deficient Mice. Journal of Biological Chemistry, 2001, 276, 12460-12465.	1.6	108
38	Mitochondrial proticity and ROS signaling: lessons from the uncoupling proteins. Trends in Endocrinology and Metabolism, 2012, 23, 451-458.	3.1	108
39	MITOCHONDRIALUNCOUPLINGPROTEINS INENERGYEXPENDITURE. Annual Review of Nutrition, 2000, 20, 339-363.	4.3	103
40	The Sirt1 deacetylase modulates the insulin-like growth factor signaling pathway in mammals. Mechanisms of Ageing and Development, 2005, 126, 1097-1105.	2.2	97
41	Fourâ€week cold acclimation in adult humans shifts uncoupling thermogenesis from skeletal muscles to brown adipose tissue. Journal of Physiology, 2017, 595, 2099-2113.	1.3	95
42	Essential Role for Uncoupling Protein-3 in Mitochondrial Adaptation to Fasting but Not in Fatty Acid Oxidation or Fatty Acid Anion Export. Journal of Biological Chemistry, 2008, 283, 25124-25131.	1.6	88
43	Impaired mitochondrial oxidative phosphorylation and supercomplex assembly in rectus abdominis muscle of diabetic obese individuals. Diabetologia, 2015, 58, 2861-2866.	2.9	88
44	Genipin-Induced Inhibition of Uncoupling Protein-2 Sensitizes Drug-Resistant Cancer Cells to Cytotoxic Agents. PLoS ONE, 2010, 5, e13289.	1.1	86
45	Long-term calorie restriction reduces proton leak and hydrogen peroxide production in liver mitochondria. American Journal of Physiology - Endocrinology and Metabolism, 2005, 288, E674-E684.	1.8	85
46	KCNMA1 Encoded Cardiac BK Channels Afford Protection against Ischemia-Reperfusion Injury. PLoS ONE, 2014, 9, e103402.	1.1	83
47	Glutaredoxin-2 Is Required to Control Oxidative Phosphorylation in Cardiac Muscle by Mediating Deglutathionylation Reactions. Journal of Biological Chemistry, 2014, 289, 14812-14828.	1.6	81
48	Gain-of-Function R225W Mutation in Human AMPKÎ³3 Causing Increased Glycogen and Decreased Triglyceride in Skeletal Muscle. PLoS ONE, 2007, 2, e903.	1.1	80
49	The SIRT1 deacetylase protects mice against the symptoms of metabolic syndrome. FASEB Journal, 2014, 28, 1306-1316.	0.2	74
50	Effects of fasting on muscle mitochondrial energetics and fatty acid metabolism in Ucp3(â^'/â^') and wild-type mice. American Journal of Physiology - Endocrinology and Metabolism, 2001, 281, E975-E982.	1.8	73
51	Cellular redox dysfunction in the development of cardiovascular diseases. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2822-2829.	1.1	70
52	Overexpression of UCP-3 in Skeletal Muscle of Mice Results in Increased Expression of Mitochondrial Thioesterase mRNA. Biochemical and Biophysical Research Communications, 2001, 283, 785-790.	1.0	69
53	MCL-1Matrix maintains neuronal survival by enhancing mitochondrial integrity and bioenergetic capacity under stress conditions. Cell Death and Disease, 2020, 11, 321.	2.7	68
54	Gene expression profiling in whole blood identifies distinct biological pathways associated with obesity. BMC Medical Genomics, 2010, 3, 56.	0.7	66

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55	Reduction of diet-induced obesity in transgenic mice overexpressing uncoupling protein 3 in skeletal muscle. Diabetologia, 2004, 47, 47-54.	2.9	65
56	Effects of thyroid hormones on oxidative phosphorylation. Biochemical Society Transactions, 1993, 21, 785-792.	1.6	63
57	FAT/CD36-null mice reveal that mitochondrial FAT/CD36 is required to upregulate mitochondrial fatty acid oxidation in contracting muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 297, R960-R967.	0.9	63
58	Therapeutic Inhibition of miR-33 Promotes Fatty Acid Oxidation but Does Not Ameliorate Metabolic Dysfunction in Diet-Induced Obesity. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 2536-2543.	1.1	63
59	Mitochondrial stress controls the radiosensitivity of the oxygen effect: Implications for radiotherapy. Oncotarget, 2016, 7, 21469-21483.	0.8	63
60	Percent relative cumulative frequency analysis in indirect calorimetry: application to studies of transgenic mice. Canadian Journal of Physiology and Pharmacology, 2004, 82, 1075-1083.	0.7	62
61	Mechanisms responsible for enhanced fatty acid utilization by perfused hearts from type 2 diabeticdb/dbmice. Archives of Physiology and Biochemistry, 2007, 113, 65-75.	1.0	61
62	The Adipocyte-Expressed Forkhead Transcription Factor Foxc2 Regulates Metabolism Through Altered Mitochondrial Function. Diabetes, 2011, 60, 427-435.	0.3	61
63	Glutaredoxin-2 Is Required to Control Proton Leak through Uncoupling Protein-3. Journal of Biological Chemistry, 2013, 288, 8365-8379.	1.6	61
64	Glucose regulates enzymatic sources of mitochondrial NADPH in skeletal muscle cells; a novel role for glucoseâ€6â€phosphate dehydrogenase. FASEB Journal, 2010, 24, 2495-2506.	0.2	60
65	Proton leak and hydrogen peroxide production in liver mitochondria from energy-restricted rats. American Journal of Physiology - Endocrinology and Metabolism, 2004, 286, E31-E40.	1.8	59
66	Sympathetic nervous dysregulation in the absence of systolic left ventricular dysfunction in a rat model of insulin resistance with hyperglycemia. Cardiovascular Diabetology, 2011, 10, 75.	2.7	59
67	Glutathionylation State of Uncoupling Protein-2 and the Control of Glucose-stimulated Insulin Secretion. Journal of Biological Chemistry, 2012, 287, 39673-39685.	1.6	57
68	Uncoupling Proteins: Role in Insulin Resistance and Insulin Insufficiency. Current Diabetes Reviews, 2006, 2, 271-283.	0.6	56
69	Peroxisome Proliferatorâ€activated Receptor Î³ 2 and Acylâ€CoA Synthetase 5 Polymorphisms Influence Diet Response. Obesity, 2007, 15, 1068-1075.	1.5	56
70	Long-term high-fat feeding induces greater fat storage in mice lacking UCP3. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E1018-E1024.	1.8	56
71	Crucial yet divergent roles of mitochondrial redox state in skeletal muscle vs . brown adipose tissue energetics. FASEB Journal, 2012, 26, 363-375.	0.2	56
72	DJ-1/PARK7 Impairs Bacterial Clearance in Sepsis. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 889-905.	2.5	55

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73	Genome-wide identification of circulating-miRNA expression quantitative trait loci reveals the role of several miRNAs in the regulation of cardiometabolic phenotypes. Cardiovascular Research, 2019, 115, 1629-1645.	1.8	55
74	Effects of the presence, absence, and overexpression of uncoupling protein-3 on adiposity and fuel metabolism in congenic mice. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E1304-E1312.	1.8	53
75	Distinct skeletal muscle fiber characteristics and gene expression in diet-sensitive versus diet-resistant obesity. Journal of Lipid Research, 2010, 51, 2394-2404.	2.0	52
76	SirT1 catalytic activity is required for male fertility and metabolic homeostasis in mice. FASEB Journal, 2012, 26, 555-566.	0.2	51
77	Identification of a pathogenicFTOmutation by next-generation sequencing in a newborn with growth retardation and developmental delay. Journal of Medical Genetics, 2016, 53, 200-207.	1.5	50
78	Factors affecting weight loss variability in obesity. Metabolism: Clinical and Experimental, 2020, 113, 154388.	1.5	50
79	Age-related increase in mitochondrial proton leak and decrease in ATP turnover reactions in mouse hepatocytes. American Journal of Physiology - Endocrinology and Metabolism, 1998, 275, E197-E206.	1.8	49
80	Acylcarnitines as markers of exerciseâ€associated fuel partitioning, xenometabolism, and potential signals to muscle afferent neurons. Experimental Physiology, 2017, 102, 48-69.	0.9	49
81	Proportional activation coefficients during stimulation of oxidative phosphorylation by lactate and pyruvate or by vasopressin. Biochimica Et Biophysica Acta - Bioenergetics, 1995, 1229, 315-322.	0.5	46
82	Obesity shows preserved plasma proteome in large independent clinical cohorts. Scientific Reports, 2018, 8, 16981.	1.6	45
83	Muscle uncoupling protein 3 overexpression mimics endurance training and reduces circulating biomarkers of incomplete Î²â€oxidation. FASEB Journal, 2013, 27, 4213-4225.	0.2	43
84	Tumor metabolism regulating chemosensitivity in ovarian cancer. Genes and Cancer, 2018, 9, 155-175.	0.6	43
85	Low birth weight is associated with adiposity, impaired skeletal muscle energetics and weight loss resistance in mice. International Journal of Obesity, 2015, 39, 702-711.	1.6	42
86	Hyperthyroidism stimulates mitochondrial proton leak and ATP turnover in rat hepatocytes but does not change the overall kinetics of substrate oxidation reactions. Canadian Journal of Physiology and Pharmacology, 1994, 72, 899-908.	0.7	39
87	Improved Metabolic Health Alters Host Metabolism in Parallel with Changes in Systemic Xeno-Metabolites of Gut Origin. PLoS ONE, 2014, 9, e84260.	1.1	39
88	SPG7 Variant Escapes Phosphorylation-Regulated Processing by AFG3L2, Elevates Mitochondrial ROS, and Is Associated with Multiple Clinical Phenotypes. Cell Reports, 2014, 7, 834-847.	2.9	39
89	Mitochondrial efficiency: lessons learned from transgenic mice. Biochimica Et Biophysica Acta - Bioenergetics, 2001, 1504, 159-172.	0.5	38
90	Unchanged fasting and postprandial adiponectin levels following a 4-day caloric restriction in young healthy men. Clinical Endocrinology, 2004, 60, 429-433.	1.2	38

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91	Mitochondrial uncoupling in skeletal muscle by UCP1 augments energy expenditure and glutathione content while mitigating ROS production. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E405-E415.	1.8	38
92	Undernutrition during pregnancy in mice leads to dysfunctional cardiac muscle respiration in adult offspring. Bioscience Reports, 2015, 35, .	1.1	38
93	Increased mitochondrial proton leak in skeletal muscle mitochondria of UCP1-deficient mice. American Journal of Physiology - Endocrinology and Metabolism, 2000, 279, E941-E946.	1.8	37
94	Influence of mitochondrial membrane fatty acid composition on proton leak and H2O2 production in liver. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2005, 140, 99-108.	0.7	37
95	Rescue of Neurons from Ischemic Injury by Peroxisome Proliferator-Activated Receptor-Â Requires a Novel Essential Cofactor LMO4. Journal of Neuroscience, 2008, 28, 12433-12444.	1.7	37
96	The energetic implications of uncoupling protein-3 in skeletal muscle. Applied Physiology, Nutrition and Metabolism, 2007, 32, 884-894.	0.9	35
97	Glutathionylation of UCP2 sensitizes drug resistant leukemia cells to chemotherapeutics. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 80-89.	1.9	35
98	Glutaredoxin-2 controls cardiac mitochondrial dynamics and energetics in mice, and protects against human cardiac pathologies. Redox Biology, 2018, 14, 509-521.	3.9	35
99	p53 Promotes chemoresponsiveness by regulating hexokinase II gene transcription and metabolic reprogramming in epithelial ovarian cancer. Molecular Carcinogenesis, 2019, 58, 2161-2174.	1.3	34
100	RIPK1 gene variants associate with obesity in humans and can be therapeutically silenced to reduce obesity in mice. Nature Metabolism, 2020, 2, 1113-1125.	5.1	34
101	Fasting and Postprandial Total Ghrelin Remain Unchanged after Short-Term Energy Restriction. Journal of Clinical Endocrinology and Metabolism, 2004, 89, 1727-1732.	1.8	33
102	The Role of Mitochondrial Uncoupling in 3,4-Methylenedioxymethamphetamine-Mediated Skeletal Muscle Hyperthermia and Rhabdomyolysis. Journal of Pharmacology and Experimental Therapeutics, 2005, 313, 629-639.	1.3	33
103	Effects of cobalt and chromium ions on oxidative stress and energy metabolism in macrophages in vitro. Journal of Orthopaedic Research, 2018, 36, 3178-3187.	1.2	33
104	Metabolic functions of AMPK: Aspects of structure and of natural mutations in the regulatory gamma subunits. IUBMB Life, 2010, 62, 739-745.	1.5	32
105	Hexokinase II acts through UCP3 to suppress mitochondrial reactive oxygen species production and maintain aerobic respiration. Biochemical Journal, 2011, 437, 301-311.	1.7	32
106	SIRT3 controls brown fat thermogenesis by deacetylation regulation of pathways upstream of UCP1. Molecular Metabolism, 2019, 25, 35-49.	3.0	30
107	Implications of mitochondrial uncoupling in skeletal muscle in the development and treatment of obesity. FEBS Journal, 2013, 280, 5015-5029.	2.2	29
108	Human Pluripotent Stem Cellâ€“Derived TSC2-Haploinsufficient Smooth Muscle Cells Recapitulate Features of Lymphangioleiomyomatosis. Cancer Research, 2017, 77, 5491-5502.	0.4	29

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109	Naked mole-rat brown fat thermogenesis is diminished during hypoxia through a rapid decrease in UCP1. Nature Communications, 2021, 12, 6801.	5.8	29
110	Impaired adaptability of in vivo mitochondrial energetics to acute oxidative insult in aged skeletal muscle. Mechanisms of Ageing and Development, 2012, 133, 620-628.	2.2	28
111	Increased susceptibility to oxidative damage in post-diabetic human myotubes. Diabetologia, 2009, 52, 2405-2415.	2.9	27
112	Intrinsic aerobic capacity correlates with greater inherent mitochondrial oxidative and H₂O₂emission capacities without major shifts in myosin heavy chain isoform. Journal of Applied Physiology, 2012, 113, 1624-1634.	1.2	27
113	UCP3 and its putative function: consistencies and controversies. Biochemical Society Transactions, 2001, 29, 768-773.	1.6	26
114	EFFECTS OF 12 MONTHS OF CALORIC RESTRICTION ON MUSCLE MITOCHONDRIAL FUNCTION IN HEALTHY INDIVIDUALS. Journal of Clinical Endocrinology and Metabolism, 2017, 102, jc.2016-3211.	1.8	26
115	Innate Immune Nod1/RIP2 Signaling Is Essential for Cardiac Hypertrophy but Requires Mitochondrial Antiviral Signaling Protein for Signal Transductions and Energy Balance. Circulation, 2020, 142, 2240-2258.	1.6	26
116	A Signaling Lipid Associated with Alzheimerâ€™s Disease Promotes Mitochondrial Dysfunction. Scientific Reports, 2016, 6, 19332.	1.6	25
117	Exercise plasma metabolomics and xenometabolomics in obese, sedentary, insulin-resistant women: impact of a fitness and weight loss intervention. American Journal of Physiology - Endocrinology and Metabolism, 2019, 317, E999-E1014.	1.8	25
118	Genome-wide gene-based analyses of weight loss interventions identify a potential role for NKX6.3 in metabolism. Nature Communications, 2019, 10, 540.	5.8	25
119	The lifecycle of skeletal muscle mitochondria in obesity. Obesity Reviews, 2021, 22, e13164.	3.1	25
120	Effects of nitric oxide donors on cybrids harbouring the mitochondrial myopathy, encephalopathy, lactic acidosis and stroke-like episodes (MELAS) A3243G mitochondrial DNA mutation. Biochemical Journal, 2005, 391, 191-202.	1.7	24
121	Long-Chain Fatty Acid Combustion Rate Is Associated with Unique Metabolite Profiles in Skeletal Muscle Mitochondria. PLoS ONE, 2010, 5, e9834.	1.1	24
122	Mitochondrial uncoupling as a target in the treatment of obesity. Current Opinion in Clinical Nutrition and Metabolic Care, 2007, 10, 671-678.	1.3	23
123	Ablation of LMO4 in glutamatergic neurons impairs leptin control of fat metabolism. Cellular and Molecular Life Sciences, 2012, 69, 819-828.	2.4	23
124	Cellular metabolism as a basis for immune privilege. Journal of Immune Based Therapies and Vaccines, 2006, 4, 1.	2.4	22
125	Naturally occurring R225W mutation of the gene encoding AMP-activated protein kinase (AMPK)Î³3 results in increased oxidative capacity and glucose uptake in human primary myotubes. Diabetologia, 2010, 53, 1986-1997.	2.9	22
126	Absence of uncoupling protein-3 leads to greater activation of an adenine nucleotide translocase-mediated proton conductance in skeletal muscle mitochondria from calorie restricted mice. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1389-1397.	0.5	22

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127	Severe Neonatal Presentation of Mitochondrial Citrate Carrier (SLC25A1) Deficiency. JIMD Reports, 2016, 30, 73-79.	0.7	21
128	ACSL5 genotype influence on fatty acid metabolism: a cellular, tissue, and whole-body study. Metabolism: Clinical and Experimental, 2018, 83, 271-279.	1.5	20
129	Oxidative status of muscle is determined by p107 regulation of PGC-1Î±. Journal of Cell Biology, 2010, 190, 651-662.	2.3	19
130	Skeletal muscle mitochondrial energetics in obesity and type 2 diabetes mellitus: Endocrine aspects. Best Practice and Research in Clinical Endocrinology and Metabolism, 2012, 26, 805-819.	2.2	19
131	Detailed Biochemical and Bioenergetic Characterization of FBXL4-Related Encephalomyopathic Mitochondrial DNA Depletion. JIMD Reports, 2015, 27, 1-9.	0.7	19
132	A fully joint Bayesian quantitative trait locus mapping of human protein abundance in plasma. PLoS Computational Biology, 2020, 16, e1007882.	1.5	19
133	A novel amino acid and metabolomics signature in mice overexpressing muscle uncoupling protein 3. FASEB Journal, 2017, 31, 814-827.	0.2	18
134	Atrial Fibrillation Is Associated With Impaired Atrial Mitochondrial Energetics and Supercomplex Formation in Adults With Type 2 Diabetes. Canadian Journal of Diabetes, 2019, 43, 67-75.e1.	0.4	18
135	Exercise training and diet-induced weight loss increase markers of hepatic bile acid (BA) synthesis and reduce serum total BA concentrations in obese women. American Journal of Physiology - Endocrinology and Metabolism, 2021, 320, E864-E873.	1.8	18
136	Lower Mitochondrial Proton Leak and Decreased Glutathione Redox in Primary Muscle Cells of Obese Diet-Resistant Versus Diet-Sensitive Humans. Journal of Clinical Endocrinology and Metabolism, 2014, 99, 4223-4230.	1.8	17
137	Mutated ATP synthase induces oxidative stress and impaired insulin secretion in Î²â€cells of female BHE/cdb rats. Diabetes/Metabolism Research and Reviews, 2008, 24, 392-403.	1.7	16
138	SMN Depleted Mice Offer a Robust and Rapid Onset Model of Nonalcoholic Fatty Liver Disease. Cellular and Molecular Gastroenterology and Hepatology, 2021, 12, 354-377.e3.	2.3	16
139	Increased proton leak and SOD2 expression in myotubes from obese non-diabetic subjects with a family history of type 2 diabetes. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 1624-1633.	1.8	15
140	Maternal dietâ€induced obesity alters muscle mitochondrial function in offspring without changing insulin sensitivity. FASEB Journal, 2019, 33, 13515-13526.	0.2	14
141	Impact of a weight loss and fitness intervention on exerciseâ€associated plasma oxylipin patterns in obese, insulinâ€resistant, sedentary women. Physiological Reports, 2020, 8, e14547.	0.7	14
142	Altered mitochondrial fusion drives defensive glutathione synthesis in cells able to switch to glycolytic ATP production. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 118854.	1.9	14
143	In utero Undernutrition Programs Skeletal and Cardiac Muscle Metabolism. Frontiers in Physiology, 2016, 6, 401.	1.3	13
144	Mitochondrial uncoupling proteins as potential targets for pharmacological agents. Current Opinion in Pharmacology, 2004, 4, 603-607.	1.7	12

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145	K_{ATP}channel deficiency in mouse FDB causes an impairment of energy metabolism during fatigue. American Journal of Physiology - Cell Physiology, 2016, 311, C559-C571.	2.1	12
146	Calorie restriction in mice overexpressing UCP3: Evidence that prior mitochondrial uncoupling alters response. Experimental Gerontology, 2012, 47, 361-371.	1.2	11
147	Chronic AMPK activity dysregulation produces myocardial insulin resistance in the human Arg302Gln-PRKAG2 glycogen storage disease mouse model. EJNMMI Research, 2013, 3, 48.	1.1	11
148	Glutaredoxin-2 and Sirtuin-3 deficiencies impair cardiac mitochondrial energetics but their effects are not additive. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2021, 1867, 165982.	1.8	11
149	Erythrocyte membrane lipid alterations in undernourished cerebral palsied children during high intakes of a soy oil-based enteral formula. Lipids, 1990, 25, 639-645.	0.7	10
150	A 680â€‰kb duplication at the FTO locus in a kindred with obesity and a distinct body fat distribution. European Journal of Human Genetics, 2013, 21, 1417-1422.	1.4	10
151	Skeletal muscle mitoflashes, pH, and the role of uncoupling protein-3. Archives of Biochemistry and Biophysics, 2019, 663, 239-248.	1.4	10
152	Glyoxalase 1 Prevents Chronic Hyperglycemia Induced Heart-Explant Derived Cell Dysfunction. Theranostics, 2019, 9, 5720-5730.	4.6	10
153	Association of muscle fiber type with measures of obesity: A systematic review. Obesity Reviews, 2022, 23, e13444.	3.1	10
154	Comparison of the subcellular distribution of G-proteins in hepatocytes in situ and in primary cultures. , 1996, 62, 334-341.		9
155	Acyl-CoA synthetase long-chain 5 genotype is associated with body composition changes in response to lifestyle interventions in postmenopausal women with overweight and obesity: a genetic association study on cohorts MontrÃ©al-Ottawa New Emerging Team, and Complications Associated with Obesity. BMC Medical Genetics, 2016, 17, 56.	2.1	8
156	Mitochondrial adaptation in human mesenchymal stem cells following ionizing radiation. FASEB Journal, 2019, 33, 9263-9278.	0.2	8
157	Metabolic terminology: whatâ€™s in a name?. Nature Metabolism, 2020, 2, 476-477.	5.1	8
158	SGCG rs679482 Associates With Weight Loss Success in Response to an Intensively Supervised Outpatient Program. Diabetes, 2020, 69, 2017-2026.	0.3	8
159	Reduced in vivo phosphodiesterase-4 response to acute noradrenaline challenge in diet-induced obese rats. Canadian Journal of Physiology and Pharmacology, 2009, 87, 196-202.	0.7	7
160	Can response to dietary restriction predict weight loss after <scp>R</scp>ouxâ€enâ€<scp>Y</scp> gastroplasty?. Obesity, 2016, 24, 805-811.	1.5	7
161	Is Type 2 Diabetes in Adults Associated With Impaired Capacity for Weight Loss?. Canadian Journal of Diabetes, 2018, 42, 313-316.e1.	0.4	7
162	Effects of cobalt and chromium ions on glycolytic flux and the stabilization of hypoxiaâ€inducible factorâ€1Î± in macrophages in vitro. Journal of Orthopaedic Research, 2021, 39, 112-120.	1.2	7

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163	Grx2 Regulates Skeletal Muscle Mitochondrial Structure and Autophagy. Frontiers in Physiology, 2021, 12, 604210.	1.3	7
164	Does the Oxidative/Glycolytic Ratio Determine Proliferation or Death in Immune Recognition?. Annals of the New York Academy of Sciences, 1999, 887, 77-82.	1.8	6
165	Differences in Mitochondrial Coupling Reveal a Novel Signature of Mitohormesis in Muscle of Healthy Individuals. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 4994-5003.	1.8	6
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