

Andrew J Murray

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

5,308
citations

57719

44
h-index

91828

69
g-index

110
all docs

110
docs citations

110
times ranked

7253
citing authors

#	ARTICLE	IF	CITATIONS
1	Nutritional Ketosis Alters Fuel Preference and Thereby Endurance Performance in Athletes. <i>Cell Metabolism</i> , 2016, 24, 256-268.	7.2	377
2	Uncoupling proteins in human heart. <i>Lancet, The</i> , 2004, 364, 1786-1788.	6.3	257
3	Metabolic basis to Sherpa altitude adaptation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6382-6387.	3.3	162
4	A high fat diet increases mitochondrial fatty acid oxidation and uncoupling to decrease efficiency in rat heart. <i>Basic Research in Cardiology</i> , 2011, 106, 447-457.	2.5	154
5	Metabolic differentiation in the embryonic retina. <i>Nature Cell Biology</i> , 2012, 14, 859-864.	4.6	153
6	A high-fat diet impairs cardiac high-energy phosphate metabolism and cognitive function in healthy human subjects. <i>American Journal of Clinical Nutrition</i> , 2011, 93, 748-755.	2.2	139
7	Acclimatization of skeletal muscle mitochondria to high altitude hypoxia during an ascent of Everest. <i>FASEB Journal</i> , 2012, 26, 1431-1441.	0.2	138
8	Lipid zonation and phospholipid remodeling in nonalcoholic fatty liver disease. <i>Hepatology</i> , 2017, 65, 1165-1180.	3.6	138
9	Novel ketone diet enhances physical and cognitive performance. <i>FASEB Journal</i> , 2016, 30, 4021-4032.	0.2	132
10	Plasma Free Fatty Acids and Peroxisome Proliferator-Activated Receptor α in the Control of Myocardial Uncoupling Protein Levels. <i>Diabetes</i> , 2005, 54, 3496-3502.	0.3	127
11	Inorganic Nitrate Promotes the Browning of White Adipose Tissue Through the Nitrate-Nitrite-Nitric Oxide Pathway. <i>Diabetes</i> , 2015, 64, 471-484.	0.3	121
12	Skeletal muscle alterations in patients with acute Covid-19 and post-acute sequelae of Covid-19. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2022, 13, 11-22.	2.9	119
13	Fatty acid transporter levels and palmitate oxidation rate correlate with ejection fraction in the infarcted rat heart. <i>Cardiovascular Research</i> , 2006, 72, 430-437.	1.8	116
14	Deterioration of physical performance and cognitive function in rats with short-term high-fat feeding. <i>FASEB Journal</i> , 2009, 23, 4353-4360.	0.2	116
15	Increased mitochondrial uncoupling proteins, respiratory uncoupling and decreased efficiency in the chronically infarcted rat heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2008, 44, 694-700.	0.9	112
16	Suppression of Mitochondrial Electron Transport Chain Function in the Hypoxic Human Placenta: A Role for miRNA-210 and Protein Synthesis Inhibition. <i>PLoS ONE</i> , 2013, 8, e55194.	1.1	112
17	Mitochondrial α Endoplasmic reticulum interactions in the trophoblast: Stress and senescence. <i>Placenta</i> , 2017, 52, 146-155.	0.7	111
18	Short-term consumption of a high-fat diet impairs whole-body efficiency and cognitive function in sedentary men. <i>FASEB Journal</i> , 2011, 25, 1088-1096.	0.2	103

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19	Metabolic adaptation of skeletal muscle to high altitude hypoxia: how new technologies could resolve the controversies. <i>Genome Medicine</i> , 2009, 1, 117.	3.6	98
20	Oxygen delivery and fetal-placental growth: Beyond a question of supply and demand?. <i>Placenta</i> , 2012, 33, e16-e22.	0.7	95
21	Human placental metabolic adaptation to chronic hypoxia, high altitude: hypoxic preconditioning. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 298, R166-R172.	0.9	88
22	The contrasting roles of PPAR α and PPAR β in regulating the metabolic switch between oxidation and storage of fats in white adipose tissue. <i>Genome Biology</i> , 2011, 12, R75.	13.9	85
23	Cardiac response to hypobaric hypoxia: persistent changes in cardiac mass, function, and energy metabolism after a trek to Mt. Everest Base Camp. <i>FASEB Journal</i> , 2011, 25, 792-796.	0.2	85
24	Hepatic steatosis risk is partly driven by increased de novo lipogenesis following carbohydrate consumption. <i>Genome Biology</i> , 2018, 19, 79.	3.8	83
25	Brown and beige adipose tissue regulate systemic metabolism through a metabolite interorgan signaling axis. <i>Nature Communications</i> , 2021, 12, 1905.	5.8	82
26	A Ketone Ester Diet Increases Brain Malonyl-CoA and Uncoupling Proteins 4 and 5 while Decreasing Food Intake in the Normal Wistar Rat. <i>Journal of Biological Chemistry</i> , 2010, 285, 25950-25956.	1.6	78
27	Skeletal muscle energy metabolism in environmental hypoxia: climbing towards consensus. <i>Extreme Physiology and Medicine</i> , 2014, 3, 19.	2.5	78
28	Oral 28-day and developmental toxicity studies of (R)-3-hydroxybutyl (R)-3-hydroxybutyrate. <i>Regulatory Toxicology and Pharmacology</i> , 2012, 63, 196-208.	1.3	76
29	Cerebral venous system and anatomical predisposition to high altitude headache. <i>Annals of Neurology</i> , 2013, 73, 381-389.	2.8	76
30	Placental mitochondria adapt developmentally and in response to hypoxia to support fetal growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1621-1626.	3.3	75
31	Imprinted Gene Dosage Is Critical for the Transition to Independent Life. <i>Cell Metabolism</i> , 2012, 15, 209-221.	7.2	72
32	Energy metabolism and the high altitude environment. <i>Experimental Physiology</i> , 2016, 101, 23-27.	0.9	72
33	Noncanonical mitochondrial unfolded protein response impairs placental oxidative phosphorylation in early-onset preeclampsia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18109-18118.	3.3	67
34	Mitochondria and heart failure. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2007, 10, 704-711.	1.3	63
35	Mitochondrial function at extreme high altitude. <i>Journal of Physiology</i> , 2016, 594, 1137-1149.	1.3	61
36	Metabolic adjustment to high-altitude hypoxia: from genetic signals to physiological implications. <i>Biochemical Society Transactions</i> , 2018, 46, 599-607.	1.6	61

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37	Altered mitochondrial metabolism in the insulin-resistant heart. <i>Acta Physiologica</i> , 2020, 228, e13430.	1.8	56
38	Oxygen and placental development; parallels and differences with tumour biology. <i>Placenta</i> , 2017, 56, 14-18.	0.7	55
39	On the pivotal role of PPAR α in adaptation of the heart to hypoxia and why fat in the diet increases hypoxic injury. <i>FASEB Journal</i> , 2016, 30, 2684-2697.	0.2	54
40	A study of metabolic compartmentation in the rat heart and cardiac mitochondria using high-resolution magic angle spinning 1 H NMR spectroscopy. <i>FEBS Letters</i> , 2003, 553, 73-78.	1.3	50
41	The Effect of High-Altitude on Human Skeletal Muscle Energetics: 31P-MRS Results from the Caudwell Xtreme Everest Expedition. <i>PLoS ONE</i> , 2010, 5, e10681.	1.1	50
42	Insulin resistance, abnormal energy metabolism and increased ischemic damage in the chronically infarcted rat heart. <i>Cardiovascular Research</i> , 2006, 71, 149-157.	1.8	49
43	Rosiglitazone treatment improves cardiac efficiency in hearts from diabetic mice. <i>Archives of Physiology and Biochemistry</i> , 2007, 113, 211-220.	1.0	48
44	Dietary nitrate increases arginine availability and protects mitochondrial complex I and energetics in the hypoxic rat heart. <i>Journal of Physiology</i> , 2014, 592, 4715-4731.	1.3	47
45	Translatable mitochondria-targeted protection against programmed cardiovascular dysfunction. <i>Science Advances</i> , 2020, 6, eabb1929.	4.7	41
46	Changes in muscle proteomics in the course of the Caudwell Research Expedition to Mt. Everest. <i>Proteomics</i> , 2015, 15, 160-171.	1.3	38
47	Nitrate enhances skeletal muscle fatty acid oxidation via a nitric oxide-cGMP-PPAR-mediated mechanism. <i>BMC Biology</i> , 2015, 13, 110.	1.7	37
48	Comprehensive Metabolic Profiling of Age-Related Mitochondrial Dysfunction in the High-Fat-Fed Mouse Heart. <i>Journal of Proteome Research</i> , 2015, 14, 2849-2862.	1.8	35
49	Inorganic Nitrate Mimics Exercise-Stimulated Muscular Fiber-Type Switching and Myokine and $\hat{3}$ -Aminobutyric Acid Release. <i>Diabetes</i> , 2017, 66, 674-688.	0.3	35
50	The Effect of Bacterial Signal Indole on the Electrical Properties of Lipid Membranes. <i>ChemPhysChem</i> , 2013, 14, 417-423.	1.0	34
51	Metabolomic and lipidomic plasma profile changes in human participants ascending to Everest Base Camp. <i>Scientific Reports</i> , 2019, 9, 2297.	1.6	31
52	Diabetic microcirculatory disturbances and pathologic erythropoiesis are provoked by deposition of amyloid-forming amylin in red blood cells and capillaries. <i>Kidney International</i> , 2020, 97, 143-155.	2.6	31
53	Tissue-specific changes in fatty acid oxidation in hypoxic heart and skeletal muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R534-R541.	0.9	29
54	How wasting is saving: Weight loss at altitude might result from an evolutionary adaptation. <i>BioEssays</i> , 2014, 36, 721-729.	1.2	29

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55	Metabolic Profiling of the Diabetic Heart: Toward a Richer Picture. <i>Frontiers in Physiology</i> , 2019, 10, 639.	1.3	27
56	Development and thyroid hormone dependence of skeletal muscle mitochondrial function towards birth. <i>Journal of Physiology</i> , 2020, 598, 2453-2468.	1.3	25
57	Effects of Germline VHL Deficiency on Growth, Metabolism, and Mitochondria. <i>New England Journal of Medicine</i> , 2020, 382, 835-844.	13.9	23
58	The association of circulating amylin with β -amyloid in familial Alzheimer's disease. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , 2021, 7, e12130.	1.8	21
59	Metabolic adaptation to high altitude. <i>Current Opinion in Endocrine and Metabolic Research</i> , 2020, 11, 33-41.	0.6	20
60	Inorganic nitrate, hypoxia, and the regulation of cardiac mitochondrial respiration—probing the role of PPAR α . <i>FASEB Journal</i> , 2019, 33, 7563-7577.	0.2	18
61	Influence of speed of sample processing on placental energetics and signalling pathways: Implications for tissue collection. <i>Placenta</i> , 2014, 35, 103-108.	0.7	17
62	Suppression of erythropoiesis by dietary nitrate. <i>FASEB Journal</i> , 2015, 29, 1102-1112.	0.2	16
63	Divergent trajectories of cellular bioenergetics, intermediary metabolism and systemic redox status in survivors and non-survivors of critical illness. <i>Redox Biology</i> , 2021, 41, 101907.	3.9	16
64	Design and conduct of Xtreme Everest 2: An observational cohort study of Sherpa and lowlander responses to graduated hypobaric hypoxia. <i>F1000Research</i> , 2015, 4, 90.	0.8	16
65	Altered Oxygen Utilisation in Rat Left Ventricle and Soleus after 14 Days, but Not 2 Days, of Environmental Hypoxia. <i>PLoS ONE</i> , 2015, 10, e0138564.	1.1	15
66	Human adaptation to hypoxia in critical illness. <i>Journal of Applied Physiology</i> , 2020, 129, 656-663.	1.2	15
67	Lipidomic Approaches to Study HDL Metabolism in Patients with Central Obesity Diagnosed with Metabolic Syndrome. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6786.	1.8	15
68	Dietary long-chain, but not medium-chain, triglycerides impair exercise performance and uncouple cardiac mitochondria in rats. <i>Nutrition and Metabolism</i> , 2011, 8, 55.	1.3	14
69	Mitochondrial responses to extreme environments: insights from metabolomics. <i>Extreme Physiology and Medicine</i> , 2015, 4, 7.	2.5	14
70	Rapid kinetics of changes in oxygen consumption rate in thrombin-stimulated platelets measured by high-resolution respirometry. <i>Biochemical and Biophysical Research Communications</i> , 2018, 503, 2721-2727.	1.0	14
71	Cryopreservation of placental biopsies for mitochondrial respiratory analysis. <i>Placenta</i> , 2012, 33, 122-123.	0.7	13
72	PPAR α -independent effects of nitrate supplementation on skeletal muscle metabolism in hypoxia. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 844-853.	1.8	13

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73	No evidence for a local renin-angiotensin system in liver mitochondria. <i>Scientific Reports</i> , 2013, 3, 2467.	1.6	12
74	Consequences of Lipid Remodeling of Adipocyte Membranes Being Functionally Distinct from Lipid Storage in Obesity. <i>Journal of Proteome Research</i> , 2020, 19, 3919-3935.	1.8	12
75	̢-hydroxybutyrate accumulates in the rat heart during low-flow ischaemia with implications for functional recovery. <i>ELife</i> , 2021, 10, .	2.8	12
76	Hypoxia-Inducible Factors as Key Players in the Pathogenesis of Non-alcoholic Fatty Liver Disease and Non-alcoholic Steatohepatitis. <i>Frontiers in Medicine</i> , 2021, 8, 753268.	1.2	11
77	Thyroid Deficiency Before Birth Alters the Adipose Transcriptome to Promote Overgrowth of White Adipose Tissue and Impair Thermogenic Capacity. <i>Thyroid</i> , 2020, 30, 794-805.	2.4	10
78	Mtrr hypomorphic mutation alters liver morphology, metabolism and fuel storage in mice. <i>Molecular Genetics and Metabolism Reports</i> , 2020, 23, 100580.	0.4	9
79	Metabolic Consequences of Glucocorticoid Exposure before Birth. <i>Nutrients</i> , 2022, 14, 2304.	1.7	9
80	Inorganic Nitrate Promotes Glucose Uptake and Oxidative Catabolism in White Adipose Tissue Through the XOR-Catalyzed Nitric Oxide Pathway. <i>Diabetes</i> , 2020, 69, 893-901.	0.3	8
81	Development of cerebral mitochondrial respiratory function is impaired by thyroid hormone deficiency before birth in a region-specific manner. <i>FASEB Journal</i> , 2021, 35, e21591.	0.2	8
82	Glucocorticoid maturation of mitochondrial respiratory capacity in skeletal muscle before birth. <i>Journal of Endocrinology</i> , 2021, 251, 53-68.	1.2	8
83	Notch Signaling and Cross-Talk in Hypoxia: A Candidate Pathway for High-Altitude Adaptation. <i>Life</i> , 2022, 12, 437.	1.1	8
84	A model for determining cardiac mitochondrial substrate utilisation using stable 13C-labelled metabolites. <i>Metabolomics</i> , 2019, 15, 154.	1.4	7
85	Oral Coenzyme Q10 Supplementation Does Not Prevent Cardiac Alterations During a High Altitude Trek to Everest Base Camp. <i>High Altitude Medicine and Biology</i> , 2014, 15, 459-467.	0.5	6
86	Taking a HIT for the heart: why training intensity matters. <i>Journal of Applied Physiology</i> , 2011, 111, 1229-1230.	1.2	5
87	Endurance exercise training blunts the deleterious effect of high-fat feeding on whole body efficiency. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R320-R326.	0.9	5
88	Commentaries on Viewpoint: Human skeletal muscle wasting in hypoxia: a matter of hypoxic dose?. <i>Journal of Applied Physiology</i> , 2017, 122, 409-411.	1.2	5
89	Reconsidering critical illness as an uncharacterised acquired mitochondrial disorder. <i>Journal of the Intensive Care Society</i> , 2020, 21, 102-104.	1.1	5
90	The Smell of Hypoxia: using an electronic nose at altitude and proof of concept of its role in the prediction and diagnosis of acute mountain sickness. <i>Physiological Reports</i> , 2018, 6, e13854.	0.7	4

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91	Enhanced hepatic respiratory capacity and altered lipid metabolism support metabolic homeostasis during short-term hypoxic stress. <i>BMC Biology</i> , 2021, 19, 265.	1.7	4
92	Placental sex-dependent spermine synthesis regulates trophoblast gene expression through acetyl-coA metabolism and histone acetylation. <i>Communications Biology</i> , 2022, 5, .	2.0	4
93	Of mice and men (and muscle mitochondria). <i>Experimental Physiology</i> , 2013, 98, 879-880.	0.9	3
94	Rat pancreatectomy combined with isoprenaline or uninephrectomy as models of diabetic cardiomyopathy or nephropathy. <i>Scientific Reports</i> , 2020, 10, 16130.	1.6	3
95	Mitochondria at the extremes: pioneers, protectorates, protagonists. <i>Extreme Physiology and Medicine</i> , 2014, 3, 10.	2.5	2
96	An In Situ Study on the Effects of Extracts of <i>T araxacum Officinale</i> , <i>â€¦ P aulliniia Pinnata</i> and <i>â€¦ T honningia Sanguinea</i> on Mitochondrial Function. <i>Journal of Food Biochemistry</i> , 2015, 39, 682-688.	1.2	1
97	Novel "Dual Hit" Rat Model of Diabetic Cardiomyopathy. <i>Diabetes</i> , 2018, 67, .	0.3	1
98	Cortisol Regulates Cerebral Mitochondrial Oxidative Phosphorylation and Morphology of the Brain in a Region-Specific Manner in the Ovine Fetus. <i>Biomolecules</i> , 2022, 12, 768.	1.8	1
99	High-fat diet alters physical and mental performance via changes in mitochondrial UCPS. <i>Journal of Molecular and Cellular Cardiology</i> , 2008, 44, 818.	0.9	0
100	Mt Everest trek causes impaired cardiac high energy phosphate metabolism and diastolic impairment. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009, 11, .	1.6	0
101	004 Peroxisome proliferator-activated receptor alpha is essential for cardiac adaptation to chronic hypoxia. <i>Heart</i> , 2010, 96, e1-e2.	1.2	0
102	Response to Comment on Lee et al. <i>Diabetes</i> 2015;64:2836â€“2846. Comment on Roberts et al. <i>Diabetes</i> 2015;64:471â€“484. <i>Diabetes</i> , 2016, 65, e16-e16.	0.3	0
103	Editorial: Translational Approaches for Targeting Cardiovascular Complications of Diabetes. <i>Frontiers in Pharmacology</i> , 2021, 12, 799020.	1.6	0
104	Developmental programming of mitochondrial substrate metabolism in skeletal muscle of adult sheep by cortisol exposure before birth. <i>Journal of Developmental Origins of Health and Disease</i> , 0, , 1-11.	0.7	0