

Grant B McClelland

List of Publications by Year in descending order

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79
papers

3,154
citations

126907

33
h-index

168389

53
g-index

80
all docs

80
docs citations

80
times ranked

3202
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidative stress response and gene expression with acute copper exposure in zebrafish (<i>Danio rerio</i>). <i>Journal of Applied Physiology</i> , 2013, 115, R1882-R1892.	1.8	204
2	Temperature- and exercise-induced gene expression and metabolic enzyme changes in skeletal muscle of adult zebrafish (<i>Danio rerio</i>). <i>Journal of Physiology</i> , 2006, 577, 739-751.	2.9	167
3	Regulatory changes contribute to the adaptive enhancement of thermogenic capacity in high-altitude deer mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8635-8640.	7.1	159
4	High-altitude ancestry and hypoxia acclimation have distinct effects on exercise capacity and muscle phenotype in deer mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 308, R779-R791.	1.8	101
5	Fat to the fire: the regulation of lipid oxidation with exercise and environmental stress. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2004, 139, 443-460.	1.6	99
6	Intertissue regulation of carnitine palmitoyltransferase I (CPTI): Mitochondrial membrane properties and gene expression in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 1382-1389.	2.6	93
7	Peroxisomal membrane monocarboxylate transporters: evidence for a redox shuttle system?. <i>Biochemical and Biophysical Research Communications</i> , 2003, 304, 130-135.	2.1	92
8	FUNCTIONAL GENOMICS OF ADAPTATION TO HYPOXIC COLD-STRESS IN HIGH-ALTITUDE DEER MICE: TRANSCRIPTOMIC PLASTICITY AND THERMOGENIC PERFORMANCE. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 48-62.	2.3	92
9	Changes in MCT 1, MCT 4, and LDH expression are tissue specific in rats after long-term hypobaric hypoxia. <i>Journal of Applied Physiology</i> , 2002, 92, 1573-1584.	2.5	89
10	Carbohydrate utilization during exercise after high-altitude acclimation: A new perspective. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 10288-10293.	7.1	86
11	Lifetime performance in foraging honeybees: behaviour and physiology. <i>Journal of Experimental Biology</i> , 2006, 209, 3828-3836.	1.7	79
12	Evolved changes in the intracellular distribution and physiology of muscle mitochondria in high-altitude native deer mice. <i>Journal of Physiology</i> , 2017, 595, 4785-4801.	2.9	79
13	The influence of feeding and fasting on plasma metabolites in the dogfish shark (<i>Squalus acanthias</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2010, 155, 435-444.	1.8	67
14	Evolved Mechanisms of Aerobic Performance and Hypoxia Resistance in High-Altitude Natives. <i>Annual Review of Physiology</i> , 2019, 81, 561-583.	13.1	67
15	MCT1 confirmed in rat striated muscle mitochondria. <i>Journal of Applied Physiology</i> , 2004, 97, 1059-1066.	2.5	65
16	Circulatory mechanisms underlying adaptive increases in thermogenic capacity in high-altitude deer mice. <i>Journal of Experimental Biology</i> , 2017, 220, 3616-3620.	1.7	64
17	Increase in Carbohydrate Utilization in High-Altitude Andean Mice. <i>Current Biology</i> , 2012, 22, 2350-2354.	3.9	62
18	Temporal and spatial patterns of gene expression in skeletal muscles in response to swim training in adult zebrafish (<i>Danio rerio</i>). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2010, 180, 151-160.	1.5	60

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19	Gill membrane remodeling with soft-water acclimation in zebrafish (<i>Danio rerio</i>). <i>Physiological Genomics</i> , 2007, 30, 53-60.	2.3	59
20	Comparison between conventional and "clinical" assessment of experimental lung fibrosis. <i>Journal of Translational Medicine</i> , 2008, 6, 16.	4.4	59
21	Lipid composition of tissue and plasma in two mediterranean fishes, the gilt-head sea bream (<i>Chrysophrys auratus</i>) and the European seabass (<i>Dicentrarchus labrax</i>). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1995, 52, 161-170.	1.4	57
22	Effects of dietary fatty acid composition on the regulation of carnitine palmitoyltransferase (CPT) I in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2009, 152, 85-93.	1.6	57
23	Lifetime- and caste-specific changes in flight metabolic rate and muscle biochemistry of honeybees, <i>Apis mellifera</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2010, 180, 45-55.	1.5	51
24	Evolution of physiological performance capacities and environmental adaptation: insights from high-elevation deer mice (<i>Peromyscus maniculatus</i>). <i>Journal of Mammalogy</i> , 2019, 100, 910-922.	1.3	51
25	Muscle remodeling in relation to blood supply: implications for seasonal changes in mitochondrial enzymes. <i>Journal of Experimental Biology</i> , 2005, 208, 515-522.	1.7	47
26	Gene expression endpoints following chronic waterborne copper exposure in a genomic model organism, the zebrafish, <i>Danio rerio</i> . <i>Physiological Genomics</i> , 2009, 40, 23-33.	2.3	45
27	Acclimation to hypoxia increases carbohydrate use during exercise in high-altitude deer mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 312, R400-R411.	1.8	43
28	Failure of ATP supply to match ATP demand: The mechanism of toxicity of the lampricide, 3-trifluoromethyl-4-nitrophenol (TFM), used to control sea lamprey (<i>Petromyzon marinus</i>) populations in the Great Lakes. <i>Aquatic Toxicology</i> , 2009, 94, 265-274.	4.0	41
29	Examining the mechanisms responsible for lower ROS release rates in liver mitochondria from the long-lived house sparrow (<i>Passer domesticus</i>) and big brown bat (<i>Eptesicus fuscus</i>) compared to the short-lived mouse (<i>Mus musculus</i>). <i>Mechanisms of Ageing and Development</i> , 2009, 130, 467-476.	4.6	40
30	Thermogenesis in CD-1 mice after combined chronic hypoxia and cold acclimation. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2010, 157, 301-309.	1.6	39
31	Oxidative stress and metabolic responses to copper in freshwater- and seawater-acclimated killifish, <i>Fundulus heteroclitus</i> . <i>Aquatic Toxicology</i> , 2015, 161, 242-252.	4.0	39
32	Dietary iron alters waterborne copper-induced gene expression in soft water acclimated zebrafish (<i>Danio rerio</i>). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 296, R362-R373.	1.8	38
33	Coordinated changes across the O ₂ transport pathway underlie adaptive increases in thermogenic capacity in high-altitude deer mice. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20192750.	2.6	36
34	The lampricide 3-trifluoromethyl-4-nitrophenol (TFM) uncouples mitochondrial oxidative phosphorylation in both sea lamprey (<i>Petromyzon marinus</i>) and TFM-tolerant rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2011, 153, 342-349.	2.6	34
35	Water Chemistry Alters Gene Expression and Physiological End Points of Chronic Waterborne Copper Exposure in Zebrafish, <i>Danio rerio</i> . <i>Environmental Science & Technology</i> , 2010, 44, 2156-2162.	10.0	33
36	Changes in HIF-1 α protein, pyruvate dehydrogenase phosphorylation, and activity with exercise in acute and chronic hypoxia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R1098-R1104.	1.8	32

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37	Genome duplication events have led to a diversification in the CPT I gene family in fish. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 299, R579-R589.	1.8	31
38	Integrating metabolic pathway fluxes with gene-to-enzyme expression rates. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1998, 120, 17-26.	1.6	30
39	The effects of the lampricide 3-trifluoromethyl-4-nitrophenol (TFM) on fuel stores and ion balance in a non-target fish, the rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2014, 160, 30-41.	2.6	30
40	Distinct metabolic adjustments arise from acclimation to constant hypoxia and intermittent hypoxia in estuarine killifish (<i>Fundulus heteroclitus</i>). <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	28
41	Chronic cold exposure induces mitochondrial plasticity in deer mice native to high altitudes. <i>Journal of Physiology</i> , 2020, 598, 5411-5426.	2.9	28
42	Muscle Remodeling and the Exercise Physiology of Fish. <i>Exercise and Sport Sciences Reviews</i> , 2012, 40, 165-173.	3.0	27
43	Characterization of ectonucleotidase expression in the rat carotid body: regulation by chronic hypoxia. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 313, C274-C284.	4.6	24
44	Regulation of Carnitine Palmitoyltransferase (CPT) I during Fasting in Rainbow Trout (<i>Oncorhynchus mykiss</i>) Promotes Increased Mitochondrial Fatty Acid Oxidation. <i>Physiological and Biochemical Zoology</i> , 2011, 84, 625-633.	1.5	23
45	Development of homeothermic endothermy is delayed in high-altitude native deer mice (<i>Peromyscus maniculatus</i>). <i>Journal of Experimental Biology</i> , 2019, 222, .	2.6	22
46	Effect of exercise on the plasma nonesterified fatty acid composition of dogs and goats: Species with different aerobic capacities and diets. <i>Lipids</i> , 1995, 30, 147-153.	1.7	21
47	Cannibalism, competition, and costly care in the plainfin midshipman fish, <i>Porichthys notatus</i> . <i>Behavioral Ecology</i> , 2016, 27, 628-636.	2.2	21
48	Leptin and the control of respiratory gene expression in muscle. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2004, 1688, 86-93.	3.8	20
49	Developmental delay in shivering limits thermogenic capacity in juvenile high-altitude deer mice (<i>Peromyscus maniculatus</i>). <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	20
50	Sperm performance under hypoxic conditions in the intertidal fish <i>Porichthys notatus</i> . <i>Canadian Journal of Zoology</i> , 2009, 87, 464-469.	1.0	19
51	High-altitude acclimation increases the triacylglycerol/fatty acid cycle at rest and during exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001, 281, E537-E544.	3.5	18
52	Control of mitochondrial gene expression in the aging rat myocardium. <i>Biochemistry and Cell Biology</i> , 2006, 84, 191-198.	2.0	18
53	Do mice bred selectively for high locomotor activity have a greater reliance on lipids to power submaximal aerobic exercise?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 303, R101-R111.	1.8	18
54	Fuel Use in Mammals: Conserved Patterns and Evolved Strategies for Aerobic Locomotion and Thermogenesis. <i>Integrative and Comparative Biology</i> , 2017, 57, 231-239.	2.0	18

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55	Adaptive Shifts in Gene Regulation Underlie a Developmental Delay in Thermogenesis in High-Altitude Deer Mice. <i>Molecular Biology and Evolution</i> , 2020, 37, 2309-2321.	8.9	18
56	Coping with aquatic hypoxia: how the plainfin midshipman (<i>Porichthys notatus</i>) tolerates the intertidal zone. <i>Environmental Biology of Fishes</i> , 2014, 97, 163-172.	1.0	17
57	Ontogenesis of evolved changes in respiratory physiology in deer mice native to high altitude. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	17
58	Investigating the mechanisms of Ni uptake and sub-lethal toxicity in the Atlantic killifish <i>Fundulus heteroclitus</i> in relation to salinity. <i>Environmental Pollution</i> , 2016, 211, 370-381.	7.5	16
59	Effect of high-altitude acclimation on NEFA turnover and lipid utilization during exercise in rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999, 277, E1095-E1102.	3.5	14
60	Chronic hypoxia- and cold-induced changes in cardiac enzyme and gene expression in CD-1 mice. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2010, 1800, 1248-1255.	2.4	13
61	The oxidative stress response in freshwater-acclimated killifish (<i>Fundulus heteroclitus</i>) to acute copper and hypoxia exposure. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2016, 179, 11-18.	2.6	12
62	Muscle metabolic remodeling in response to endurance exercise in salmonids. <i>Frontiers in Physiology</i> , 2014, 5, 452.	2.8	11
63	Plasticity of non-shivering thermogenesis and brown adipose tissue in high-altitude deer mice. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	11
64	Enzymatic and mitochondrial responses to 5 months of aerial exposure in the slender lungfish <i>Protopterus dolloi</i> . <i>Journal of Fish Biology</i> , 2008, 73, 608-622.	1.6	10
65	Patterns of fuel use during locomotion in mammals revisited: the importance of aerobic scope. <i>Journal of Experimental Biology</i> , 2014, 217, 3193-6.	1.7	10
66	Life stage dependent responses to the lampricide, 3-trifluoromethyl-4-nitrophenol (TFM), provide insight into glucose homeostasis and metabolism in the sea lamprey (<i>Petromyzon marinus</i>). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2015, 169, 35-45.	2.6	9
67	Ancestral and developmental cold alter brown adipose tissue function and adult thermal acclimation in <i>Peromyscus</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2021, 191, 589-601.	1.5	9
68	Physiological and Biochemical Effects of Lithium in Rainbow Trout. <i>Archives of Environmental Contamination and Toxicology</i> , 2007, 53, 632-638.	4.1	8
69	Genomic and Metabolic Preparation of Muscle in Sockeye Salmon <i>Oncorhynchus nerka</i> for Spawning Migration. <i>Physiological and Biochemical Zoology</i> , 2013, 86, 750-760.	1.5	8
70	Rewiring metabolism under oxygen deprivation. <i>Science</i> , 2017, 356, 248-249.	12.6	8
71	Lipid oxidation during thermogenesis in high-altitude deer mice (<i>Peromyscus maniculatus</i>). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 320, R735-R746.	1.8	5
72	Influence of 96h sub-lethal copper exposure on aerobic scope and recovery from exhaustive exercise in killifish (<i>Fundulus heteroclitus</i>). <i>Aquatic Toxicology</i> , 2020, 218, 105373.	4.0	4

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73	Evolved changes in maternal care in high-altitude native deer mice. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	4
74	Increased Reliance on Carbohydrates for Aerobic Exercise in Highland Andean Leaf-Eared Mice, but Not in Highland Lima Leaf-Eared Mice. <i>Metabolites</i> , 2021, 11, 750.	2.9	3
75	Phenotypic plasticity to chronic cold exposure in two species of <i>Peromyscus</i> from different environments. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2022, 192, 335-348.	1.5	3
76	Thermogenesis is supported by high rates of circulatory fatty acid and triglyceride delivery in highland deer mice. <i>Journal of Experimental Biology</i> , 2022, , .	1.7	2
77	The influence of feeding and fasting on plasma metabolites in the dogfish shark (<i>Squalus acanthias</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 153, S66-S67.	1.8	0
78	The effect of marine dissolved organic carbon on nickel accumulation in early life-stages of the sea urchin, <i>Strongylocentrotus purpuratus</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2021, 250, 109150.	2.6	0
79	CONFIRMATION OF MCT1 LOCALIZATION TO THE MITOCHONDRIA OF STRIATED MUSCLE IN THE RAT.. <i>Medicine and Science in Sports and Exercise</i> , 2002, 34, S284.	0.4	0