# Grant B Mcclelland

List of Publications by Year
in descending order

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|---|---|---|---|
| 79<br>papers | 3,154<br>citations | 126907<br>33<br>h-index | 168389<br>53<br>g-index |
| 80<br>all docs | 80<br>docs citations | 80<br>times ranked | 3202<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Phenotypic plasticity to chronic cold exposure in two species of Peromyscus from different environments. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2022, 192, 335-348. | 1.5 | 3 |
| 2 | Thermogenesis is supported by high rates of circulatory fatty acid and triglyceride delivery in highland deer mice. Journal of Experimental Biology, 2022, , . | 1.7 | 2 |
| 3 | Ancestral and developmental cold alter brown adipose tissue function and adult thermal acclimation in Peromyscus. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2021, 191, 589-601. | 1.5 | 9 |
| 4 | Evolved changes in maternal care in high-altitude native deer mice. Journal of Experimental Biology, 2021, 224, . | 1.7 | 4 |
| 5 | Plasticity of non-shivering thermogenesis and brown adipose tissue in high-altitude deer mice. Journal of Experimental Biology, 2021, 224, . | 1.7 | 11 |
| 6 | Lipid oxidation during thermogenesis in high-altitude deer mice (Peromyscus maniculatus). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2021, 320, R735-R746. | 1.8 | 5 |
| 7 | The effect of marine dissolved organic carbon on nickel accumulation in early life-stages of the sea urchin, Strongylocentrotus purpuratus. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2021, 250, 109150. | 2.6 | 0 |
| 8 | Increased Reliance on Carbohydrates for Aerobic Exercise in Highland Andean Leaf-Eared Mice, but Not in Highland Lima Leaf-Eared Mice. Metabolites, 2021, 11, 750. | 2.9 | 3 |
| 9 | Influence of 96h sub-lethal copper exposure on aerobic scope and recovery from exhaustive exercise in killifish (Fundulus heteroclitus). Aquatic Toxicology, 2020, 218, 105373. | 4.0 | 4 |
| 10 | Chronic cold exposure induces mitochondrial plasticity in deer mice native to high altitudes. Journal of Physiology, 2020, 598, 5411-5426. | 2.9 | 28 |
| 11 | Coordinated changes across the O 2 transport pathway underlie adaptive increases in thermogenic capacity in high-altitude deer mice. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20192750. | 2.6 | 36 |
| 12 | Ontogenesis of evolved changes in respiratory physiology in deer mice native to high altitude. Journal of Experimental Biology, 2020, 223, . | 1.7 | 17 |
| 13 | Adaptive Shifts in Gene Regulation Underlie a Developmental Delay in Thermogenesis in High-Altitude Deer Mice. Molecular Biology and Evolution, 2020, 37, 2309-2321. | 8.9 | 18 |
| 14 | Evolution of physiological performance capacities and environmental adaptation: insights from high-elevation deer mice (Peromyscus maniculatus). Journal of Mammalogy, 2019, 100, 910-922. | 1.3 | 51 |
| 15 | Development of homeothermic endothermy is delayed in high-altitude native deer mice () Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 20190841. | 2.6 | 22 |
| 16 | Developmental delay in shivering limits thermogenic capacity in juvenile high-altitude deer mice (Peromyscus maniculatus). Journal of Experimental Biology, 2019, 222, . | 1.7 | 20 |
| 17 | Evolved Mechanisms of Aerobic Performance and Hypoxia Resistance in High-Altitude Natives. Annual Review of Physiology, 2019, 81, 561-583. | 13.1 | 67 |
| 18 | Distinct metabolic adjustments arise from acclimation to constant hypoxia and intermittent hypoxia in estuarine killifish (Fundulus heteroclitus). Journal of Experimental Biology, 2018, 221, . | 1.7 | 28 |

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|---|---|---|---|
| 19 | Evolved changes in the intracellular distribution and physiology of muscle mitochondria in highâ€altitude native deer mice. Journal of Physiology, 2017, 595, 4785-4801. | 2.9 | 79 |
| 20 | Rewiring metabolism under oxygen deprivation. Science, 2017, 356, 248-249. | 12.6 | 8 |
| 21 | Acclimation to hypoxia increases carbohydrate use during exercise in high-altitude deer mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2017, 312, R400-R411. | 1.8 | 43 |
| 22 | Circulatory mechanisms underlying adaptive increases in thermogenic capacity in high-altitude deer mice. Journal of Experimental Biology, 2017, 220, 3616-3620. | 1.7 | 64 |
| 23 | Fuel Use in Mammals: Conserved Patterns and Evolved Strategies for Aerobic Locomotion and Thermogenesis. Integrative and Comparative Biology, 2017, 57, 231-239. | 2.0 | 18 |
| 24 | Characterization of ectonucleotidase expression in the rat carotid body: regulation by chronic hypoxia. American Journal of Physiology - Cell Physiology, 2017, 313, C274-C284. | 4.6 | 24 |
| 25 | Cannibalism, competition, and costly care in the plainfin midshipman fish,Porichthys notatus. Behavioral Ecology, 2016, 27, 628-636. | 2.2 | 21 |
| 26 | Investigating the mechanisms of Ni uptake and sub-lethal toxicity in the Atlantic killifish Fundulus heteroclitus in relation to salinity. Environmental Pollution, 2016, 211, 370-381. | 7.5 | 16 |
| 27 | The oxidative stress response in freshwater-acclimated killifish ( Fundulus heteroclitus ) to acute copper and hypoxia exposure. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2016, 179, 11-18. | 2.6 | 12 |
| 28 | Oxidative stress and metabolic responses to copper in freshwater- and seawater-acclimated killifish, Fundulus heteroclitus. Aquatic Toxicology, 2015, 161, 242-252. | 4.0 | 39 |
| 29 | Life stage dependent responses to the lampricide, 3-trifluoromethyl-4-nitrophenol (TFM), provide insight into glucose homeostasis and metabolism in the sea lamprey (Petromyzon marinus). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2015, 169, 35-45. | 2.6 | 9 |
| 30 | High-altitude ancestry and hypoxia acclimation have distinct effects on exercise capacity and muscle phenotype in deer mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 308, R779-R791. | 1.8 | 101 |
| 31 | Muscle metabolic remodeling in response to endurance exercise in salmonids. Frontiers in Physiology, 2014, 5, 452. | 2.8 | 11 |
| 32 | FUNCTIONAL GENOMICS OF ADAPTATION TO HYPOXIC COLD-STRESS IN HIGH-ALTITUDE DEER MICE: TRANSCRIPTOMIC PLASTICITY AND THERMOGENIC PERFORMANCE. Evolution; International Journal of Organic Evolution, 2014, 68, 48-62. | 2.3 | 92 |
| 33 | Coping with aquatic hypoxia: how the plainfin midshipman (Porichthys notatus) tolerates the intertidal zone. Environmental Biology of Fishes, 2014, 97, 163-172. | 1.0 | 17 |
| 34 | Patterns of fuel use during locomotion in mammals revisited: the importance of aerobic scope. Journal of Experimental Biology, 2014, 217, 3193-6. | 1.7 | 10 |
| 35 | The effects of the lampricide 3-trifluoromethyl-4-nitrophenol (TFM) on fuel stores and ion balance in a non-target fish, the rainbow trout (Oncorhynchus mykiss). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2014, 160, 30-41. | 2.6 | 30 |
| 36 | Genomic and Metabolic Preparation of Muscle in Sockeye Salmon Oncorhynchus nerka for Spawning Migration. Physiological and Biochemical Zoology, 2013, 86, 750-760. | 1.5 | 8 |

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|---|---|---|---|
| 37 | Do mice bred selectively for high locomotor activity have a greater reliance on lipids to power submaximal aerobic exercise?. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 303, R101-R111. | 1.8 | 18 |
| 38 | Regulatory changes contribute to the adaptive enhancement of thermogenic capacity in high-altitude deer mice. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8635-8640. | 7.1 | 159 |
| 39 | Muscle Remodeling and the Exercise Physiology of Fish. Exercise and Sport Sciences Reviews, 2012, 40, 165-173. | 3.0 | 27 |
| 40 | Increase in Carbohydrate Utilization in High-Altitude Andean Mice. Current Biology, 2012, 22, 2350-2354. | 3.9 | 62 |
| 41 | Regulation of Carnitine Palmitoyltransferase (CPT) I during Fasting in Rainbow Trout (Oncorhynchus mykiss) Promotes Increased Mitochondrial Fatty Acid Oxidation. Physiological and Biochemical Zoology, 2011, 84, 625-633. | 1.5 | 23 |
| 42 | The lampricide 3-trifluoromethyl-4-nitrophenol (TFM) uncouples mitochondrial oxidative phosphorylation in both sea lamprey (Petromyzon marinus) and TFM-tolerant rainbow trout (Oncorhynchus mykiss). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2011, 153, 342-349. | 2.6 | 34 |
| 43 | Changes in HIF-1Î± protein, pyruvate dehydrogenase phosphorylation, and activity with exercise in acute and chronic hypoxia. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1098-R1104. | 1.8 | 32 |
| 44 | Genome duplication events have led to a diversification in the CPT I gene family in fish. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R579-R589. | 1.8 | 31 |
| 45 | Lifetime- and caste-specific changes in flight metabolic rate and muscle biochemistry of honeybees, Apis mellifera. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2010, 180, 45-55. | 1.5 | 51 |
| 46 | Temporal and spatial patterns of gene expression in skeletal muscles in response to swim training in adult zebrafish (Danio rerio). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2010, 180, 151-160. | 1.5 | 60 |
| 47 | The influence of feeding and fasting on plasma metabolites in the dogfish shark (Squalus acanthias). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2010, 155, 435-444. | 1.8 | 67 |
| 48 | Water Chemistry Alters Gene Expression and Physiological End Points of Chronic Waterborne Copper Exposure in Zebrafish, Danio rerio. Environmental Science & Technology, 2010, 44, 2156-2162. | 10.0 | 33 |
| 49 | Chronic hypoxia- and cold-induced changes in cardiac enzyme and gene expression in CD-1 mice. Biochimica Et Biophysica Acta - General Subjects, 2010, 1800, 1248-1255. | 2.4 | 13 |
| 50 | Thermogenesis in CD-1 mice after combined chronic hypoxia and cold acclimation. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2010, 157, 301-309. | 1.6 | 39 |
| 51 | Gene expression endpoints following chronic waterborne copper exposure in a genomic model organism, the zebrafish, Danio rerio. Physiological Genomics, 2009, 40, 23-33. | 2.3 | 45 |
| 52 | Dietary iron alters waterborne copper-induced gene expression in soft water acclimated zebrafish (Danio rerio). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R362-R373. | 1.8 | 38 |
| 53 | Examining the mechanisms responsible for lower ROS release rates in liver mitochondria from the long-lived house sparrow (Passer domesticus) and big brown bat (Eptesicus fuscus) compared to the short-lived mouse (Mus musculus). Mechanisms of Ageing and Development, 2009, 130, 467-476. | 4.6 | 40 |
| 54 | The influence of feeding and fasting on plasma metabolites in the dogfish shark (Squalus acanthias). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, S66-S67. | 1.8 | 0 |

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| 55 | Sperm performance under hypoxic conditions in the intertidal fish Porichthys notatus. Canadian Journal of Zoology, 2009, 87, 464-469. | 1.0 | 19 |
| 56 | Effects of dietary fatty acid composition on the regulation of carnitine palmitoyltransferase (CPT) I in rainbow trout (Oncorhynchus mykiss). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2009, 152, 85-93. | 1.6 | 57 |
| 57 | 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 (Petromyzon marinus) populations in the Great Lakes. Aquatic Toxicology, 2009, 94, 265-274. | 4.0 | 41 |
| 58 | Enzymatic and mitochondrial responses to 5 months of aerial exposure in the slender lungfish Protopterus dolloi. Journal of Fish Biology, 2008, 73, 608-622. | 1.6 | 10 |
| 59 | Comparison between conventional and "clinical" assessment of experimental lung fibrosis. Journal of Translational Medicine, 2008, 6, 16. | 4.4 | 59 |
| 60 | Intertissue regulation of carnitine palmitoyltransferase I (CPTI): Mitochondrial membrane properties and gene expression in rainbow trout (Oncorhynchus mykiss). Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 1382-1389. | 2.6 | 93 |
| 61 | Oxidative stress response and gene expression with acute copper exposure in zebrafish (Danio) Tj ETQq1 1 0.784314 rgBT /Overlo<br>293, R1882-R1892. | 1.8 | 204 |
| 62 | Gill membrane remodeling with soft-water acclimation in zebrafish (Danio rerio). Physiological Genomics, 2007, 30, 53-60. | 2.3 | 59 |
| 63 | Physiological and Biochemical Effects of Lithium in Rainbow Trout. Archives of Environmental Contamination and Toxicology, 2007, 53, 632-638. | 4.1 | 8 |
| 64 | Control of mitochondrial gene expression in the aging rat myocardium. Biochemistry and Cell Biology, 2006, 84, 191-198. | 2.0 | 18 |
| 65 | Temperature- and exercise-induced gene expression and metabolic enzyme changes in skeletal muscle of adult zebrafish (Danio rerio). Journal of Physiology, 2006, 577, 739-751. | 2.9 | 167 |
| 66 | Lifetime performance in foraging honeybees: behaviour and physiology. Journal of Experimental Biology, 2006, 209, 3828-3836. | 1.7 | 79 |
| 67 | Muscle remodeling in relation to blood supply: implications for seasonal changes in mitochondrial enzymes. Journal of Experimental Biology, 2005, 208, 515-522. | 1.7 | 47 |
| 68 | Fat to the fire: the regulation of lipid oxidation with exercise and environmental stress. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2004, 139, 443-460. | 1.6 | 99 |
| 69 | Leptin and the control of respiratory gene expression in muscle. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2004, 1688, 86-93. | 3.8 | 20 |
| 70 | MCT1 confirmed in rat striated muscle mitochondria. Journal of Applied Physiology, 2004, 97, 1059-1066. | 2.5 | 65 |
| 71 | Peroxisomal membrane monocarboxylate transporters: evidence for a redox shuttle system?. Biochemical and Biophysical Research Communications, 2003, 304, 130-135. | 2.1 | 92 |
| 72 | Changes in MCT 1, MCT 4, and LDH expression are tissue specific in rats after long-term hypobaric hypoxia. Journal of Applied Physiology, 2002, 92, 1573-1584. | 2.5 | 89 |

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| 73 | CONFIRMATION OF MCTI LOCALIZATION TO THE MITOCHONDRIA OF STRIATED MUSCLE IN THE RAT.. Medicine and Science in Sports and Exercise, 2002, 34, S284. | 0.4 | 0 |
| 74 | High-altitude acclimation increases the triacylglycerol/fatty acid cycle at rest and during exercise. American Journal of Physiology - Endocrinology and Metabolism, 2001, 281, E537-E544. | 3.5 | 18 |
| 75 | Effect of high-altitude acclimation on NEFA turnover and lipid utilization during exercise in rats. American Journal of Physiology - Endocrinology and Metabolism, 1999, 277, E1095-E1102. | 3.5 | 14 |
| 76 | Integrating metabolic pathway fluxes with gene-to-enzyme expression rates. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1998, 120, 17-26. | 1.6 | 30 |
| 77 | Carbohydrate utilization during exercise after high-altitude acclimation: A new perspective. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 10288-10293. | 7.1 | 86 |
| 78 | Effect of exercise on the plasma nonesterified fatty acid composition of dogs and goats: Species with different aerobic capacities and diets. Lipids, 1995, 30, 147-153. | 1.7 | 21 |
| 79 | Lipid composition off tissue and plasma in two mediterranean fishes, the gilt-head sea bream (Chrysophyrys auratus) and the European seabass (Dicentratchus labrx). Canadian Journal of Fisheries and Aquatic Sciences, 1995, 52, 161-170. | 1.4 | 57 |