

Nicolas Pichaud

List of Publications by Year in descending order

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52
papers

2,220
citations

331259

21
h-index

233125

45
g-index

57
all docs

57
docs citations

57
times ranked

3070
citing authors

#	ARTICLE	IF	CITATIONS
1	The Ratio of Macronutrients, Not Caloric Intake, Dictates Cardiometabolic Health, Aging, and Longevity in Ad Libitum-Fed Mice. <i>Cell Metabolism</i> , 2014, 19, 418-430.	7.2	768
2	Review: Quantifying Mitochondrial Dysfunction in Complex Diseases of Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67, 1022-1035.	1.7	111
3	Mitochondrial <i>scp</i> DNA <i>scp</i> : more than an evolutionary bystander. <i>Functional Ecology</i> , 2014, 28, 218-231.	1.7	111
4	Evolved genetic and phenotypic differences due to mitochondrial-nuclear interactions. <i>PLoS Genetics</i> , 2017, 13, e1006517.	1.5	81
5	NATURALLY OCCURRING MITOCHONDRIAL DNA HAPLOTYPES EXHIBIT METABOLIC DIFFERENCES: INSIGHT INTO FUNCTIONAL PROPERTIES OF MITOCHONDRIA. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 3189-3197.	1.1	79
6	Thermal sensitivity of mitochondrial metabolism in two distinct mitotypes of <i>Drosophila simulans</i> : evaluation of mitochondrial plasticity. <i>Journal of Experimental Biology</i> , 2010, 213, 1665-1675.	0.8	71
7	Holding our breath in our modern world: will mitochondria keep the pace with climate changes?. <i>Canadian Journal of Zoology</i> , 2014, 92, 591-601.	0.4	64
8	Thermal sensitivity of mitochondrial functions in permeabilized muscle fibers from two populations of <i>Drosophila simulans</i> with divergent mitotypes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R48-R59.	0.9	59
9	Thermal sensitivity and phenotypic plasticity of cardiac mitochondrial metabolism in European perch, <i>Perca fluviatilis</i> . <i>Journal of Experimental Biology</i> , 2017, 220, 386-396.	0.8	52
10	Low hydrogen peroxide production in mitochondria of the long-lived <i>Atractia islandica</i> : underlying mechanisms for slow aging. <i>Aging Cell</i> , 2013, 12, 584-592.	3.0	48
11	Inhibition of goldfish mitochondrial metabolism by in vitro exposure to Cd, Cu and Ni. <i>Aquatic Toxicology</i> , 2010, 98, 107-112.	1.9	47
12	Physiological adaptations to reproduction I. Experimentally increasing litter size enhances aspects of antioxidant defence but does not cause oxidative damage in mice. <i>Journal of Experimental Biology</i> , 2013, 216, 2879-88.	0.8	47
13	Alternative fuels contributing to mitochondrial electron transport: Importance of non-classical pathways in the diversity of animal metabolism. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2018, 224, 185-194.	0.7	44
14	Diet influences the intake target and mitochondrial functions of <i>Drosophila melanogaster</i> males. <i>Mitochondrion</i> , 2013, 13, 817-822.	1.6	42
15	Age Dependent Dysfunction of Mitochondrial and ROS Metabolism Induced by Mitonuclear Mismatch. <i>Frontiers in Genetics</i> , 2019, 10, 130.	1.1	41
16	Mitochondrial haplotype divergences affect specific temperature sensitivity of mitochondrial respiration. <i>Journal of Bioenergetics and Biomembranes</i> , 2013, 45, 25-35.	1.0	39
17	Dynamic changes in scope for heart rate and cardiac autonomic control during warm acclimation in rainbow trout. <i>Journal of Experimental Biology</i> , 2016, 219, 1106-9.	0.8	36
18	Epigallocatechin-3-gallate induces oxidative phosphorylation by activating cytochrome c oxidase in human cultured neurons and astrocytes. <i>Oncotarget</i> , 2016, 7, 7426-7440.	0.8	32

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19	The Influence of Macronutrients on Splanchnic and Hepatic Lymphocytes in Aging Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 1499-1507.	1.7	30
20	Gene by environmental interactions affecting oxidative phosphorylation and thermal sensitivity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R157-R165.	0.9	30
21	Cardiac mitochondrial plasticity and thermal sensitivity in a fish inhabiting an artificially heated ecosystem. <i>Scientific Reports</i> , 2019, 9, 17832.	1.6	28
22	Dynamic mitochondrial responses to a high-fat diet in <i>Drosophila melanogaster</i> . <i>Scientific Reports</i> , 2019, 9, 4531.	1.6	25
23	Dramatic changes in mitochondrial substrate use at critically high temperatures: a comparative study using <i>Drosophila</i> . <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	25
24	Oxidative stress and immunologic responses following a dietary exposure to PAHs in <i>Mya arenaria</i> . <i>Chemistry Central Journal</i> , 2008, 2, 23.	2.6	23
25	Increased gastrointestinal blood flow: An essential circulatory modification for euryhaline rainbow trout (<i>Oncorhynchus mykiss</i>) migrating to sea. <i>Scientific Reports</i> , 2015, 5, 10430.	1.6	22
26	Increased mitochondrial coupling and anaerobic capacity minimizes aerobic costs of trout in the sea. <i>Scientific Reports</i> , 2017, 7, 45778.	1.6	22
27	Measurement of Mitochondrial Oxygen Consumption in Permeabilized Fibers of <i>Drosophila</i> Using Minimal Amounts of Tissue. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	19
28	Dynamic changes in cardiac mitochondrial metabolism during warm acclimation in rainbow trout. <i>Journal of Experimental Biology</i> , 2017, 220, 1674-1683.	0.8	18
29	Superoxide dismutase deficiency impairs olfactory sexual signaling and alters bioenergetic function in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8119-8124.	3.3	17
30	Physiological adaptations to reproduction II. Mitochondrial adjustments in livers of lactating mice. <i>Journal of Experimental Biology</i> , 2013, 216, 2889-95.	0.8	16
31	Flexible Thermal Sensitivity of Mitochondrial Oxygen Consumption and Substrate Oxidation in Flying Insect Species. <i>Frontiers in Physiology</i> , 2022, 13, 897174.	1.3	16
32	Systemic and mitochondrial effects of metabolic inflexibility induced by high fat diet in <i>Drosophila melanogaster</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2021, 133, 103556.	1.2	14
33	Omega-3 Monoacylglyceride Effects on Longevity, Mitochondrial Metabolism and Oxidative Stress: Insights from <i>Drosophila melanogaster</i> . <i>Marine Drugs</i> , 2018, 16, 453.	2.2	12
34	Identification of proteins interacting with the mitochondrial small heat shock protein Hsp22 of <i>Drosophila melanogaster</i> : Implication in mitochondrial homeostasis. <i>PLoS ONE</i> , 2018, 13, e0193771.	1.1	11
35	Identification of Peracetylated Quercetin as a Selective 12-Lipoxygenase Pathway Inhibitor in Human Platelets. <i>Molecular Pharmacology</i> , 2019, 95, 139-150.	1.0	11
36	Adjustments of cardiac mitochondrial phenotype in a warmer thermal habitat is associated with oxidative stress in European perch, <i>Perca fluviatilis</i> . <i>Scientific Reports</i> , 2020, 10, 17697.	1.6	11

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37	Modulation of the cell membrane lipid milieu by peroxisomal β -oxidation induces Rho1 signaling to trigger inflammatory responses. <i>Cell Reports</i> , 2022, 38, 110433.	2.9	11
38	Rapid isolation and purification of functional platelet mitochondria using a discontinuous Percoll gradient. <i>Platelets</i> , 2020, 31, 258-264.	1.1	10
39	Metabolic Characterization and Consequences of Mitochondrial Pyruvate Carrier Deficiency in <i>Drosophila melanogaster</i> . <i>Metabolites</i> , 2020, 10, 363.	1.3	10
40	Characterization of the interactome of c-Src within the mitochondrial matrix by proximity-dependent biotin identification. <i>Mitochondrion</i> , 2021, 57, 257-269.	1.6	9
41	Multi-omics Reveal that c-Src Modulates the Mitochondrial Phosphotyrosine Proteome and Metabolism According to Nutrient Availability. <i>Cellular Physiology and Biochemistry</i> , 2020, 54, 517-537.	1.1	9
42	In situ quantification of mitochondrial respiration in permeabilized fibers of a marine invertebrate with low aerobic capacity. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2012, 161, 429-435.	0.8	7
43	Role of the Mitochondrial Pyruvate Carrier in the Occurrence of Metabolic Inflexibility in <i>Drosophila melanogaster</i> Exposed to Dietary Sucrose. <i>Metabolites</i> , 2020, 10, 411.	1.3	7
44	5-Benzylidene, 5-benzyl, and 3-benzylthiazolidine-2,4-diones as potential inhibitors of the mitochondrial pyruvate carrier: Effects on mitochondrial functions and survival in <i>Drosophila melanogaster</i> . <i>European Journal of Pharmacology</i> , 2021, 913, 174627.	1.7	7
45	Metabolic Capacities and Immunocompetence of Sea Scallops (<i>Placopecten magellanicus</i>), <i>Tj ETQq1 1 0.784314 rgBT₆ Overlo</i>	0.3	6
46	Functional conservatism among <i>Drosophila simulans</i> flies experiencing different thermal regimes and mitochondrial DNA introgression. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2011, 316B, 188-198.	0.6	5
47	Mitochondrial physiology and responses to elevated hydrogen sulphide in two isogenic lineages of an amphibious mangrove fish. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	5
48	Mitochondrial matrix-localized Src kinase regulates mitochondrial morphology. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, .	2.4	4
49	Purification of Functional Platelet Mitochondria Using a Discontinuous Percoll Gradient. <i>Methods in Molecular Biology</i> , 2021, 2276, 57-66.	0.4	3
50	Mitochondrial responses towards intermittent heat shocks in the eastern oyster, <i>Crassostrea virginica</i> . <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	3
51	A quercetin derivative as a selective inhibitor of 12-lipoxygenase activity in human platelets. <i>FASEB Journal</i> , 2018, 32, 671.3.	0.2	0
52	Isolation and Purification of Functional Platelet Mitochondria Using Discontinuous Percoll Gradient. <i>FASEB Journal</i> , 2019, 33, 610.20.	0.2	0