

# Simon Gaston Lamarre

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

1,021  
citations

394421

19  
h-index

454955

30  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1518  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal tolerance and thermal sensitivity of heart mitochondria: Mitochondrial integrity and ROS production. <i>Free Radical Biology and Medicine</i> , 2018, 116, 11-18.	2.9	78
2	Betaine supplementation prevents fatty liver induced by a high-fat diet: effects on one-carbon metabolism. <i>Amino Acids</i> , 2015, 47, 839-846.	2.7	74
3	Estimates of metabolic rate and major constituents of metabolic demand in fishes under field conditions: Methods, proxies, and new perspectives. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2016, 202, 10-22.	1.8	70
4	Nuclear Enrichment of Folate Cofactors and Methylenetetrahydrofolate Dehydrogenase 1 (MTHFD1) Protect de Novo Thymidylate Biosynthesis during Folate Deficiency. <i>Journal of Biological Chemistry</i> , 2014, 289, 29642-29650.	3.4	62
5	Creatine Supplementation Prevents the Accumulation of Fat in the Livers of Rats Fed a High-Fat Diet. <i>Journal of Nutrition</i> , 2011, 141, 1799-1804.	2.9	56
6	Formate: an essential metabolite, a biomarker, or more?. <i>Clinical Chemistry and Laboratory Medicine</i> , 2013, 51, 571-8.	2.3	47
7	An isotope-dilution, GC-MS assay for formate and its application to human and animal metabolism. <i>Amino Acids</i> , 2014, 46, 1885-1891.	2.7	47
8	Differences in mitochondrial efficiency explain individual variation in growth performance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191466.	2.6	37
9	Formate can differentiate between hyperhomocysteinemia due to impaired remethylation and impaired transsulfuration. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 302, E61-E67.	3.5	33
10	Enzymatic capacities of metabolic fuel use in cuttlefish ( <i>Sepia officinalis</i> ) and responses to food deprivation: insight into the metabolic organization and starvation survival strategy of cephalopods. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2016, 186, 711-725.	1.5	29
11	In Vivo Kinetics of Formate Metabolism in Folate-deficient and Folate-replete Rats. <i>Journal of Biological Chemistry</i> , 2015, 290, 2244-2250.	3.4	26
12	Tolerance, growth and haloplasticity of the Atlantic wolffish ( <i>Anarhichas lupus</i> ) exposed to various salinities. <i>Aquaculture</i> , 2004, 236, 659-675.	3.5	25
13	Protein synthesis is lowered while 20S proteasome activity is maintained following acclimation to low temperature in juvenile spotted wolffish ( <i>Anarhichas minor</i> Olafsen). <i>Journal of Experimental Biology</i> , 2009, 212, 1294-1301.	1.7	25
14	A rapid and convenient method for measuring the fractional rate of protein synthesis in ectothermic animal tissues using a stable isotope tracer. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2015, 182, 1-5.	1.6	25
15	Diel cycling hypoxia enhances hypoxia-tolerance in rainbow trout ( <i>Oncorhynchus mykiss</i> ): evidence of physiological and metabolic plasticity. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	25
16	Adjustments of Protein Metabolism in Fasting Arctic Charr, <i>Salvelinus alpinus</i> . <i>PLoS ONE</i> , 2016, 11, e0153364.	2.5	23
17	Can digestive and metabolic enzyme activity levels predict growth rate and survival of newly hatched Atlantic wolffish ( <i>Anarhichas lupus</i> Olafsen)?. <i>Aquaculture Research</i> , 2004, 35, 608-613.	1.8	22
18	Is white muscle anaerobic glycolysis capacity indicative of competitive ability in Arctic charr?. <i>Journal of Fish Biology</i> , 2005, 66, 1167-1176.	1.6	22

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19	Myosin expression levels and enzyme activity in juvenile spotted wolffish ( <i>Anarhichas minor</i> ) muscle: a method for monitoring growth rates. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2006, 63, 1959-1967.	1.4	21
20	Dietary protein hydrolysate and trypsin inhibitor effects on digestive capacities and performances during early-stages of spotted wolffish: Suggested mechanisms. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2011, 158, 525-530.	1.8	20
21	Ontogenetic effects of diet during early development on growth performance, myosin mRNA expression and metabolic enzyme activity in Atlantic cod juveniles reared at different salinities. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2010, 156, 102-109.	1.8	18
22	Effects of fasting and refeeding on protein and glucose metabolism in Arctic charr. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2018, 226, 66-74.	1.8	18
23	Sperm cryoconservation in <i>Anarhichas</i> sp., endangered cold-water aquaculture species with internal fertilization. <i>Aquaculture International</i> , 2008, 16, 273-279.	2.2	17
24	Hypoxic Induced Decrease in Oxygen Consumption in Cuttlefish ( <i>Sepia officinalis</i> ) Is Associated with Minor Increases in Mantle Octopine but No Changes in Markers of Protein Turnover. <i>Frontiers in Physiology</i> , 2017, 8, 344.	2.8	17
25	Mechanisms of protein degradation in mantle muscle and proposed gill remodeling in starved <i>Sepia officinalis</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 303, R427-R437.	1.8	16
26	Protein synthesis is lowered by 4EBP1 and eIF2- $\gamma$ signaling while protein degradation may be maintained in fasting, hypoxic Amazonian cichlid, <i>Astronotus ocellatus</i> . <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	15
27	The digestive and metabolic enzyme activity profiles of a nonmetamorphic marine fish species: effects of feed type and feeding level. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2007, 64, 849-856.	1.4	13
28	Metabolic rate and rates of protein turnover in food-deprived cuttlefish, <i>Sepia officinalis</i> (Linnaeus 1758). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R1160-R1168.	1.8	12
29	Quantitative proteomics to study a small molecule targeting the loss of von Hippel-Lindau in renal cell carcinomas. <i>International Journal of Cancer</i> , 2017, 141, 778-790.	5.1	12
30	Chronic social stress alters protein metabolism in juvenile rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2021, 191, 517-530.	1.5	12
31	Transcriptome and proteome analyses to investigate the molecular underpinnings of cold response in the Colorado potato beetle, <i>Leptinotarsa decemlineata</i> . <i>Cryobiology</i> , 2019, 88, 54-63.	0.7	11
32	Comparative Genomics of Potato Common Scab-Causing <i>Streptomyces</i> spp. Displaying Varying Virulence. <i>Frontiers in Microbiology</i> , 2021, 12, 716522.	3.5	11
33	Suckling Rat Pups Accumulate Creatine Primarily via de Novo Synthesis Rather Than from Dam Milk ., <i>Journal of Nutrition</i> , 2010, 140, 1570-1573.	2.9	10
34	White muscle 20S proteasome activity is negatively correlated to growth rate at low temperature in the spotted wolffish <i>Anarhichas minor</i> . <i>Journal of Fish Biology</i> , 2010, 76, 1565-1575.	1.6	9
35	Thermal tolerance and fish heart integrity: fatty acids profiles as predictors of species resilience. , 2020, 8, coaa108.		9
36	A simple and inexpensive apparatus for measuring fish metabolism. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2002, 26, 129-132.	1.6	8

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37	Reduced Shmt2 Expression Impairs Mitochondrial Folate Accumulation and Respiration, and Leads to Uracil Accumulation in Mouse Mitochondrial DNA. <i>Journal of Nutrition</i> , 2021, 151, 2882-2893.	2.9	8
38	Activation of oxygen-responsive pathways are associated with altered protein metabolism in Arctic char exposed to hypoxia. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	7
39	In Tuber Biocontrol of Potato Late Blight by a Collection of Phenazine-1-Carboxylic Acid-Producing <i>Pseudomonas</i> spp.. <i>Microorganisms</i> , 2021, 9, 2525.	3.6	7
40	Riboflavin Deficiency in Rats Decreases de novo Formate Production but Does Not Affect Plasma Formate Concentration. <i>Journal of Nutrition</i> , 2017, 147, 346-352.	2.9	6
41	Preliminary investigations of the physiological adjustments associated with compensatory growth in juvenile brook charr ( <i>Salvelinus fontinalis</i> ). <i>Journal of Applied Aquaculture</i> , 2017, 29, 16-32.	1.4	6
42	Reversion to developmental pathways underlies rapid arm regeneration in juvenile European cuttlefish, <i>Sepia officinalis</i> (Linnaeus 1758). <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2019, 332, 113-120.	1.3	4
43	Interrelationship Between Contractility, Protein Synthesis and Metabolism in Mantle of Juvenile Cuttlefish ( <i>Sepia officinalis</i> ). <i>Frontiers in Physiology</i> , 2019, 10, 1051.	2.8	3
44	Population Genetic Structure of the Spotted Wolffish, <i>Anarhichas minor</i> , in the North Atlantic. <i>The Open Marine Biology Journal</i> , 2008, 2, 7-12.	0.3	3
45	Contrasting strategies of hypoxic cardiac performance and metabolism in cichlids and armoured catfish. <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2021, 335, 787-800.	1.9	1
46	Creatine synthesis: the origin of creatine in rat milk. <i>FASEB Journal</i> , 2010, 24, 556.18.	0.5	0
47	Partitioning of [methyl- <sup>3</sup> H]methionine to methylated products under normal and high demand conditions in young Yucatan miniature pigs. <i>FASEB Journal</i> , 2010, 24, 740.33.	0.5	0