

Todd E Gillis

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

1,171

citations

21

h-index

32

g-index

64

ext. papers

1,343

ext. citations

3.3

avg, IF

4.64

L-index

#	Paper	IF	Citations
62	Cardiac remodeling in fish: strategies to maintain heart function during temperature Change. <i>PLoS ONE</i> , 2011 , 6, e24464	3.7	82
61	The effects of starvation on plasma free amino acid and glucose concentrations in lake sturgeon. <i>Journal of Fish Biology</i> , 1996 , 49, 1306-1316	1.9	70
60	Investigation of thin filament near-neighbour regulatory unit interactions during force development in skinned cardiac and skeletal muscle. <i>Journal of Physiology</i> , 2007 , 580, 561-76	3.9	55
59	Familial hypertrophic cardiomyopathy-related cardiac troponin C mutation L29Q affects Ca ²⁺ binding and myofilament contractility. <i>Physiological Genomics</i> , 2008 , 33, 257-66	3.6	44
58	Ca(2+) binding to cardiac troponin C: effects of temperature and pH on mammalian and salmonid isoforms. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000 , 279, R1707-15	3.2	44
57	Functional and evolutionary relationships of troponin C. <i>Physiological Genomics</i> , 2007 , 32, 16-27	3.6	43
56	Temperature-induced cardiac remodelling in fish. <i>Journal of Experimental Biology</i> , 2017 , 220, 147-160	3	40
55	Effects of diluted bitumen exposure on juvenile sockeye salmon: From cells to performance. <i>Environmental Toxicology and Chemistry</i> , 2017 , 36, 354-360	3.8	39
54	Beating the cold: the functional evolution of troponin C in teleost fish. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2002 , 132, 763-72	2.6	39
53	The production of fibers and films from solubilized hagfish slime thread proteins. <i>Biomacromolecules</i> , 2012 , 13, 3475-82	6.9	32
52	Self-assembly enhances the strength of fibers made from vimentin intermediate filament proteins. <i>Biomacromolecules</i> , 2014 , 15, 574-81	6.9	31
51	Cold acclimation alters the connective tissue content of the zebrafish (<i>Danio rerio</i>) heart. <i>Journal of Experimental Biology</i> , 2014 , 217, 1868-75	3	31
50	The ontogeny of regulatory control of the rainbow trout (<i>Oncorhynchus mykiss</i>) heart and how this is influenced by chronic hypoxia exposure. <i>Journal of Experimental Biology</i> , 2011 , 214, 2065-72	3	31
49	Compositional correlates of metabolic depression in the mitochondrial membranes of estivating snails. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998 , 275, R1977-82	3.2	30
48	Oxygen concentration in the water boundary layer next to rainbow trout (<i>Oncorhynchus mykiss</i>) embryos is influenced by hypoxia exposure time, metabolic rate, and water flow. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2008 , 65, 2170-2177	2.4	29
47	Evolution of the regulatory control of vertebrate striated muscle: the roles of troponin I and myosin binding protein-C. <i>Physiological Genomics</i> , 2010 , 42, 406-19	3.6	28
46	Increasing mammalian cardiomyocyte contractility with residues identified in trout troponin C. <i>Physiological Genomics</i> , 2005 , 22, 1-7	3.6	27

45	Transforming growth factor beta-1 (TGF- β 1) stimulates collagen synthesis in cultured rainbow trout cardiac fibroblasts. <i>Journal of Experimental Biology</i> , 2017 , 220, 2645-2653	3	26
44	Sequence mutations in teleost cardiac troponin C that are permissive of high Ca ²⁺ affinity of site II. <i>American Journal of Physiology - Cell Physiology</i> , 2003 , 284, C1176-84	5.4	26
43	Thin-filament regulation of force redevelopment kinetics in rabbit skeletal muscle fibres. <i>Journal of Physiology</i> , 2007 , 579, 313-26	3.9	22
42	Surviving anoxia: the maintenance of energy production and tissue integrity during anoxia and reoxygenation. <i>Journal of Experimental Biology</i> , 2020 , 223,	3	21
41	Nucleus-localized 21.5-kDa myelin basic protein promotes oligodendrocyte proliferation and enhances neurite outgrowth in coculture, unlike the plasma membrane-associated 18.5-kDa isoform. <i>Journal of Neuroscience Research</i> , 2013 , 91, 349-62	4.4	21
40	Cold acclimation increases cardiac myofilament function and ventricular pressure generation in trout. <i>Journal of Experimental Biology</i> , 2014 , 217, 4132-40	3	21
39	Remodeling of phospholipid fatty acids in mitochondrial membranes of estivating snails. <i>Lipids</i> , 1998 , 33, 787-93	1.6	21
38	Influences of subzero thermal acclimation on mitochondrial membrane composition of temperate zone marine bivalve mollusks. <i>Lipids</i> , 1999 , 34, 59-66	1.6	20
37	Proteomic analysis of sockeye salmon serum as a tool for biomarker discovery and new insight into the sublethal toxicity of diluted bitumen. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2017 , 22, 157-166	2	19
36	Chronic hypoxia exposure of trout embryos alters swimming performance and cardiac gene expression in larvae. <i>Physiological and Biochemical Zoology</i> , 2013 , 86, 567-75	2	19
35	Metabolic organization of liver and somatic muscle of landlocked sea lamprey, <i>Petromyzon marinus</i> , during the spawning migration. <i>Canadian Journal of Zoology</i> , 1995 , 73, 916-923	1.5	19
34	Effect of cold acclimation on troponin I isoform expression in striated muscle of rainbow trout. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012 , 303, R168-76	3.2	18
33	Developmental and latent effects of diluted bitumen exposure on early life stages of sockeye salmon (<i>Oncorhynchus nerka</i>). <i>Aquatic Toxicology</i> , 2018 , 202, 6-15	5.1	18
32	Effect of temperature on the structure of trout troponin C. <i>Biochemistry</i> , 2004 , 43, 4955-63	3.2	17
31	Characterizing the metabolic capacity of the anoxic hagfish heart. <i>Journal of Experimental Biology</i> , 2015 , 218, 3754-61	3	15
30	The influence of PKA treatment on the Ca ²⁺ activation of force generation by trout cardiac muscle. <i>Journal of Experimental Biology</i> , 2011 , 214, 1989-96	3	15
29	Influence of enhanced troponin C Ca ²⁺ -binding affinity on cooperative thin filament activation in rabbit skeletal muscle. <i>Journal of Physiology</i> , 2007 , 583, 337-50	3.9	15
28	Effect of temperature and the F27W mutation on the Ca ²⁺ activated structural transition of trout cardiac troponin C. <i>Biochemistry</i> , 2003 , 42, 6418-26	3.2	15

27	Central-acting therapeutics alleviate respiratory weakness caused by heart failure-induced ventilatory overdrive. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	13
26	The influence of trout cardiac troponin I and PKA phosphorylation on the Ca ²⁺ affinity of the cardiac troponin complex. <i>Journal of Experimental Biology</i> , 2011 , 214, 1981-8	3	13
25	Mitochondrial membrane composition of two Arctic marine bivalve mollusks, <i>Serripes groenlandicus</i> and <i>Mya truncata</i> . <i>Lipids</i> , 1999 , 34, 53-7	1.6	12
24	Novel insights into cardiac remodelling revealed by proteomic analysis of the trout heart during exercise training. <i>Journal of Proteomics</i> , 2017 , 161, 38-46	3.9	10
23	Dissecting the role of the myofilament in diaphragm dysfunction during the development of heart failure in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 310, H572-86	5.2	10
22	Hypoxia-induced reprogramming of the cardiac phenotype in American alligators (<i>Alligator mississippiensis</i>) revealed by quantitative proteomics. <i>Scientific Reports</i> , 2019 , 9, 8592	4.9	9
21	Cellular mechanisms of slime gland refilling in Pacific hagfish (). <i>Journal of Experimental Biology</i> , 2018 , 221,	3	6
20	How the expression of green fluorescent protein and human cardiac actin in the heart influences cardiac function and aerobic performance in zebrafish <i>Danio rerio</i> . <i>Journal of Fish Biology</i> , 2018 , 92, 177-189	1.8	6
19	Transforming growth factor- β induces differentiation of rainbow trout () cardiac fibroblasts into myofibroblasts. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	6
18	Effects of diluted bitumen exposure on Atlantic salmon smolts: Molecular and metabolic responses in relation to swimming performance. <i>Aquatic Toxicology</i> , 2020 , 221, 105423	5.1	5
17	Effects of diluted bitumen exposure and recovery on the seawater acclimation response of Atlantic salmon smolts. <i>Aquatic Toxicology</i> , 2020 , 221, 105419	5.1	5
16	microRNA-29b knocks down collagen type I production in cultured rainbow trout () cardiac fibroblasts. <i>Journal of Experimental Biology</i> , 2019 , 222,	3	4
15	Growing up gator: a proteomic perspective on cardiac maturation in an oviparous reptile, the American alligator (<i>Alligator mississippiensis</i>). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2020 , 190, 243-252	2.2	4
14	Emptying and refilling of slime glands in Atlantic () and Pacific () hagfishes. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	4
13	Identification of the <i>actc1c</i> cardiac actin gene in zebrafish. <i>Progress in Biophysics and Molecular Biology</i> , 2018 , 138, 32-37	4.7	4
12	Cardiac Preconditioning, Remodeling and Regeneration. <i>Fish Physiology</i> , 2017 , 185-233	2	4
11	Cold acclimation induces life stage-specific responses in the cardiac proteome of western painted turtles (<i>Chrysemys picta bellii</i>): implications for anoxia tolerance. <i>Journal of Experimental Biology</i> , 2021 , 224,	3	3
10	Short-term cyclical stretch phosphorylates p38 and ERK1/2 MAPKs in cultured fibroblasts from the hearts of rainbow trout. <i>Biology Open</i> , 2020 , 9,	2.2	3

9	Contractile function of the excised hagfish heart during anoxia exposure. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2019 , 189, 199-211	2.2	2
8	Data for iTRAQ-based quantification of the cardiac proteome of rainbow trout () at rest and with exercise training. <i>Data in Brief</i> , 2017 , 13, 32-36	1.2	1
7	Evolution of the Regulatory Control of the Vertebrate Heart: The Role of the Contractile Proteins 2012 , 125-145		1
6	A functional comparison of cardiac troponin C from representatives of three vertebrate taxa: Linking phylogeny and protein function. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2016 , 202, 8-15	2.3	1
5	Cold-acclimation induces life stage-specific responses in the cardiac proteome of Western painted turtles (<i>Chrysemys picta bellii</i>): implications for anoxia tolerance		1
4	Mitogen-activated protein kinases contribute to temperature-induced cardiac remodelling in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2021 , 1	2.2	1
3	Regulation of collagen deposition in the trout heart during thermal acclimation.. <i>Current Research in Physiology</i> , 2022 , 5, 99-108	1.8	0
2	Characterizing the influence of chronic hypobaric hypoxia on diaphragmatic myofilament contractile function and phosphorylation in high-altitude deer mice and low-altitude white-footed mice. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2019 , 189, 489-499	2.2	
1	Functional and morphological changes in the trout heart during thermal acclimation. <i>FASEB Journal</i> , 2013 , 27, 714.10	0.9	