Ian A Johnston

List of Publications by Year
in descending order

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198 papers	9,826 citations	34076 52 h-index	49868 87 g-index
200 all docs	200 docs citations	200 times ranked	5708 citing authors

#	Article	IF	Citations
1	Growth and the regulation of myotomal muscle mass in teleost fish. Journal of Experimental Biology, 2011, 214, 1617-1628.	0.8	382
2	A well-constrained estimate for the timing of the salmonid whole genome duplication reveals major decoupling from species diversification. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132881.	1.2	369
3	Muscle development and growth: potential implications for flesh quality in fish. Aquaculture, 1999, 177, 99-115.	1.7	305
4	Environment and plasticity of myogenesis in teleost fish. Journal of Experimental Biology, 2006, 209, 2249-2264.	0.8	294
5	Temperature during embryonic development has persistent effects on thermal acclimation capacity in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14247-14252.	3.3	263
6	Muscle fibre density in relation to the colour and texture of smoked Atlantic salmon (Salmo salar L.). Aquaculture, 2000, 189, 335-349.	1.7	229
7	Muscle and flesh quality traits in wild and farmed Atlantic salmon. Aquaculture, 2006, 256, 323-336.	1.7	199
8	Evolution and adaptive radiation of antarctic fishes. Trends in Ecology and Evolution, 1996, 11, 212-218.	4.2	188
9	Thermal plasticity of skeletal muscle phenotype in ectothermic vertebrates and its significance for locomotory behaviour. Journal of Experimental Biology, 2002, 205, 2305-2322.	0.8	183
10	Biochemical Correlations of Power Development and Metabolic Fuel Preferenda in Fish Hearts. Physiological Zoology, 1987, 60, 221-232.	1.5	171
11	Exercise Training in Skeletal Muscle of Brook Trout (<i>Salvelinus Fontinalis</i>). Journal of Experimental Biology, 1980, 87, 177-194.	0.8	149
12	Embryonic temperature affects muscle fibre recruitment in adult zebrafish: genome-wide changes in gene and microRNA expression associated with the transition from hyperplastic to hypertrophic growth phenotypes. Journal of Experimental Biology, 2009, 212, 1781-1793.	0.8	148
13	What determines growth potential and juvenile quality of farmed fish species?. Reviews in Aquaculture, 2013, 5, S168.	4.6	147
14	Endurance exercise training in the fast and slow muscles of a teleost fish (Pollachius virens). Journal of Comparative Physiology â–¡ B, 1980, 135, 147-156.	2.0	138
15	Modelling Muscle Power Output in a Swimming Fish. Journal of Experimental Biology, 1990, 148, 395-402.	0.8	137
16	Stages of embryonic development in the Atlantic codGadus morhua. Journal of Morphology, 2004, 259, 255-270.	0.6	134
17	Switching to fast growth: the insulin-like growth factor (IGF) system in skeletal muscle of Atlantic salmon. Journal of Experimental Biology, 2008, 211, 3859-3870.	0.8	126
18	Thermal plasticity of skeletal muscle phenotype in ectothermic vertebrates and its significance for locomotory behaviour. Journal of Experimental Biology, 2002, 205, 2305-22.	0.8	123

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19	Testing evolutionary hypotheses of acclimation. , 1996, , 205-238.		113
20	Reduction in muscle fibre number during the adaptive radiation of notothenioid fishes: a phylogenetic perspective. Journal of Experimental Biology, 2003, 206, 2595-2609.	0.8	112
21	Scaling Effects on Muscle Function: Power Output of Isolated Fish Muscle Fibres Performing Oscillatory Work. Journal of Experimental Biology, 1990, 151, 453-467.	0.8	112
22	Starvation and the activities of glycolytic and gluconeogenic enzymes in skeletal muscles and liver of the plaice,Pleuronectes platessa. Journal of Comparative Physiology â—¡ B, 1980, 136, 31-38.	2.0	104
23	Evolution of Ancient Functions in the Vertebrate Insulin-Like Growth Factor System Uncovered by Study of Duplicated Salmonid Fish Genomes. Molecular Biology and Evolution, 2013, 30, 1060-1076.	3.5	102
24	The effects of environmental temperature on the properties of myofibrillar adenosine triphosphatase from various species of fish. Biochemical Journal, 1973, 133, 735-738.	1.7	98
25	Transcriptional Regulation of the IGF Signaling Pathway by Amino Acids and Insulin-Like Growth Factors during Myogenesis in Atlantic Salmon. PLoS ONE, 2010, 5, e11100.	1.1	97
26	Utilization of the Ethanol Pathway in Carp Following Exposure to Anoxia. Journal of Experimental Biology, 1983, 104, 73-78.	0.8	97
27	Temperature induced variation in the distribution of different types of muscle fibre in the goldfish (Carassius auratus). Journal of Comparative Physiology â—¡ B, 1978, 124, 111-116.	2.0	94
28	Freshwater environment affects growth rate and muscle fibre recruitment in seawater stages of Atlantic salmon (Salmo salarL.). Journal of Experimental Biology, 2003, 206, 1337-1351.	0.8	91
29	Genomic Tools and Selective Breeding in Molluscs. Frontiers in Genetics, 2018, 9, 253.	1.1	91
30	Capillarisation, oxygen diffusion distances and mitochondrial content of carp muscles following acclimation to summer and winter temperatures. Cell and Tissue Research, 1982, 222, 325-37.	1.5	90
31	Evolution of the multifaceted eukaryotic akirin gene family. BMC Evolutionary Biology, 2009, 9, 34.	3.2	84
32	Plasticity of muscle fibre number in seawater stages of Atlantic salmon in response to photoperiod manipulation. Journal of Experimental Biology, 2003, 206, 3425-3435.	0.8	83
33	Molecular mechanisms of temperature adaptation in fish myofibrillar adenosine triphosphatases. Journal of Comparative Physiology â—¡ B, 1977, 119, 195-206.	2.0	78
34	Temperature and family effects on muscle cellularity at hatch and first feeding in Atlantic salmon (<i>Salmo salar</i>L.). Canadian Journal of Zoology, 1997, 75, 64-74.	0.4	75
35	Temperature until the â€˜eyed stageâ€™ of embryogenesis programmes the growth trajectory and muscle phenotype of adult Atlantic salmon. Biology Letters, 2008, 4, 294-298.	1.0	75
36	Rapid evolution of muscle fibre number in post-glacial populations of Arctic charr Salvelinus alpinus. Journal of Experimental Biology, 2004, 207, 4343-4360.	0.8	74

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37	Quantitative analysis of muscle breakdown during starvation in the marine flatfish Pleuronectes platessa. Cell and Tissue Research, 1981, 214, 369-86.	1.5	71
38	Kinematics of Labriform and Subcarangiform Swimming in the Antarctic Fish <i>Notothenia Neglecta</i>. Journal of Experimental Biology, 1989, 143, 195-210.	0.8	65
39	Discovery and characterization of nutritionally regulated genes associated with muscle growth in Atlantic salmon. Physiological Genomics, 2010, 42A, 114-130.	1.0	63
40	Power Output of Fish Muscle Fibres Performing Oscillatory Work: Effects of Acute and Seasonal Temperature Change. Journal of Experimental Biology, 1991, 157, 409-423.	0.8	63
41	Thermal dependence of contractile properties of single skinned muscle fibres from Antarctic and various warm water marine fishes including Skipjack Tuna (Katsuwonus pelamis) and Kawakawa (Euthynnus affinis). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1984, 155, 63-70.	0.7	62
42	Circadian expression of clock and putative clock-controlled genes in skeletal muscle of the zebrafish. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 302, R193-R206.	0.9	62
43	The structural variation landscape in 492 Atlantic salmon genomes. Nature Communications, 2020, 11, 5176.	5.8	60
44	Hydroxylysyl Pyridinoline Cross-Link Concentration Affects the Textural Properties of Fresh and Smoked Atlantic Salmon (<i>Salmo salar</i> L.) Flesh. Journal of Agricultural and Food Chemistry, 2005, 53, 6844-6850.	2.4	58
45	Biochemical and Structural Factors Contributing to Seasonal Variation in the Texture of Farmed Atlantic Halibut (Hippoglossus hippoglossusL.) Flesh. Journal of Agricultural and Food Chemistry, 2007, 55, 5803-5808.	2.4	57
46	Insulin-like growth factor (IGF) signalling and genome-wide transcriptional regulation in fast muscle of zebrafish following a single-satiating meal. Journal of Experimental Biology, 2011, 214, 2125-2139.	0.8	57
47	Paralogs of Atlantic salmon myoblast determination factor genes are distinctly regulated in proliferating and differentiating myogenic cells. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R1615-R1626.	0.9	56
48	Effects of dietary protein level on muscle cellularity and flesh quality in Atlantic salmon with particular reference to gaping. Aquaculture, 2002, 210, 259-283.	1.7	55
49	The role of myostatin and the calcineurin-signalling pathway in regulating muscle mass in response to exercise training in the rainbow trout Oncorhynchus mykiss Walbaum. Journal of Experimental Biology, 2005, 208, 2083-2090.	0.8	55
50	Development Temperature Has Persistent Effects on Muscle Growth Responses in Gilthead Sea Bream. PLoS ONE, 2012, 7, e51884.	1.1	55
51	A comparative study of glycolysis in red and white muscles of the trout (Salmo gairdneri) and mirror carp (Cyprinus carpio). Journal of Fish Biology, 1977, 11, 575-588.	0.7	54
52	Selection of reference genes for expression studies with fish myogenic cell cultures. BMC Molecular Biology, 2009, 10, 80.	3.0	54
53	Phasing of muscle gene expression with fasting-induced recovery growth in Atlantic salmon. Frontiers in Zoology, 2009, 6, 18.	0.9	54
54	Patterns of muscle growth in early and late maturing populations of Atlantic salmon (Salmo salar L.). Aquaculture, 2000, 189, 307-333.	1.7	53

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55	Fast skeletal muscle transcriptome of the Gilthead sea bream (Sparus aurata) determined by next generation sequencing. BMC Genomics, 2012, 13, 181.	1.2	52
56	Characterisation and expression of myogenesis regulatory factors during in vitro myoblast development and in vivo fasting in the gilthead sea bream (Sparus aurata). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2014, 167, 90-99.	0.8	52
57	Effect of sustained exercise on white muscle structure and flesh quality in farmed cod (Gadus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 1	0.9	51
58	Density of Cristae and Distribution of Mitochondria in the Slow Muscle Fibers of Antarctic Fish. Physiological Zoology, 1991, 64, 242-258.	1.5	50
59	Genetic and Environmental Determinants of Muscle Growth Patterns. Fish Physiology, 2001, , 141-186.	0.2	50
60	Characterisation and Expression of Calpain Family Members in Relation to Nutritional Status, Diet Composition and Flesh Texture in Gilthead Sea Bream (Sparus aurata). PLoS ONE, 2013, 8, e75349.	1.1	50
61	Growth performance, muscle structure and flesh quality in out-of-season Atlantic salmon (Salmo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 1	1.7	49
62	Sustained swimming performance and muscle structure are altered by thermal acclimation in male mosquitofish. Journal of Thermal Biology, 2004, 29, 251-257.	1.1	48
63	Salmonid genomes have a remarkably expanded<i>akirin</i>family, coexpressed with genes from conserved pathways governing skeletal muscle growth and catabolism. Physiological Genomics, 2010, 42, 134-148.	1.0	48
64	Expression of Heat Shock Protein (Hsp90) Paralogues Is Regulated by Amino Acids in Skeletal Muscle of Atlantic Salmon. PLoS ONE, 2013, 8, e74295.	1.1	48
65	Calcium regulatory proteins and temperature acclimation of actomyosin ATPase from a eurythermal teleost (Carassius auratus L.). Journal of Comparative Physiology â–¡ B, 1979, 129, 163-167.	2.0	47
66	Postprandial expression of growth-related genes in Atlantic salmon (<i>Salmo salar</i> L.) juveniles fasted for 1 week and fed a single meal to satiation. British Journal of Nutrition, 2012, 108, 2148-2157.	1.2	47
67	Temperature and the expression of seven muscle-specific protein genes during embryogenesis in the Atlantic cod Gadus morhua L.. Journal of Experimental Biology, 2003, 206, 3187-3200.	0.8	46
68	Maternal gene expression in Atlantic halibut (Hippoglossus hippoglossus L.) and its relation to egg quality. BMC Research Notes, 2010, 3, 138.	0.6	45
69	The parallel evolution of dwarfism in Arctic charr is accompanied by adaptive divergence in mTOR-pathway gene expression. Molecular Ecology, 2011, 20, 3167-3184.	2.0	45
70	Genomics: applications to Antarctic ecosystems. Polar Biology, 2005, 28, 351-365.	0.5	44
71	Temperature Acclimation in the Common Carp: Force-Velocity Characteristics and Myosin Subunit Composition of Slow Muscle Fibres. Journal of Experimental Biology, 1991, 155, 291-304.	0.8	44
72	A Novel Tensile Test Method to Assess Texture and Gaping in Salmon Fillets. Journal of Food Science, 2010, 75, S182-90.	1.5	43

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73	Quantitative analyses of ultrastructure and vascularization of the slow muscle fibres of the anchovy. Tissue and Cell, 1982, 14, 319-328.	1.0	42
74	The eurythermal myofibrillar protein complex of the mummichog (Fundulus heteroclitus): adaptation to a fluctuating thermal enviroment. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1983, 153, 167-173.	0.7	40
75	A Newly Classified Vertebrate Calpain Protease, Directly Ancestral to CAPN1 and 2, Episodically Evolved a Restricted Physiological Function in Placental Mammals. Molecular Biology and Evolution, 2010, 27, 1886-1902.	3.5	40
76	Contractile and Metabolic Characteristics of Muscle Fibres from Antarctic Fish. Journal of Experimental Biology, 1985, 116, 223-236.	0.8	39
77	Lactate Production at High Sustainable Cruising Speeds in Rainbow Trout (<i>Salmo Gairdneri</i>) Tj ETQq1 1 0.784314 rgBT /Overlo	0.8	39
78	Molecular cloning and mRNA expression analysis of carp embryonic, slow and cardiac myosin heavy chain isoforms. Journal of Experimental Biology, 2006, 209, 188-198.	0.8	38
79	Ultrastructure and metabolism of skeletal muscle fibres in the tench: Effects of long-term acclimation to hypoxia. Cell and Tissue Research, 1982, 227, 179-99.	1.5	37
80	Antarctic fish muscles â€" structure, function and physiology. Antarctic Science, 1989, 1, 97-108.	0.5	37
81	The biomechanics and evolutionary significance of thermal acclimation in the common carp<i>Cyprinus carpio</i>. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 279, R657-R665.	0.9	37
82	Temperature influences the coordinated expression of myogenic regulatory factors during embryonic myogenesis in Atlantic salmon (<i>Salmo salar</i>L.). Journal of Experimental Biology, 2007, 210, 2781-2794.	0.8	37
83	An Update on MyoD Evolution in Teleosts and a Proposed Consensus Nomenclature to Accommodate the Tetraploidization of Different Vertebrate Genomes. PLoS ONE, 2008, 3, e1567.	1.1	37
84	Muscle Fibers in Rostral and Caudal Myotomes of the Atlantic Cod (<i>Gadus morhua</i>L.) Have Different Mechanical Properties. Physiological Zoology, 1995, 68, 673-697.	1.5	37
85	Characterisation and expression analysis of cathepsins and ubiquitin-proteasome genes in gilthead sea bream (Sparus aurata) skeletal muscle. BMC Research Notes, 2015, 8, 149.	0.6	36
86	A novel salmonid myoD gene is distinctly regulated during development and probably arose by duplication after the genome tetraploidization. FEBS Letters, 2006, 580, 4996-5002.	1.3	35
87	Expression of growth-related genes in muscle during fasting and refeeding of juvenile Atlantic halibut, Hippoglossus hippoglossus L.. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2009, 152, 47-53.	0.7	35
88	Characterisation and differential regulation of MAFbx/Atrogin-1 Î± and Î² transcripts in skeletal muscle of Atlantic salmon (Salmo salar). Biochemical and Biophysical Research Communications, 2010, 396, 265-271.	1.0	35
89	Aquatic and Aerial Respiration Rates, Muscle Capillary Supply and Mitochondrial Volume Density in the Airbreathing Catfish (Clarias Mossambigus) Acclimated to Either Aerated or Hypoxic Water. Journal of Experimental Biology, 1983, 105, 317-338.	0.8	35
90	Scaling of Power Output in Fast Muscle Fibres of the Atlantic Cod During Cyclical Contractions. Journal of Experimental Biology, 1992, 170, 143-154.	0.8	35

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91	Temperature and the expression of myogenic regulatory factors (MRFs) and myosin heavy chain isoforms during embryogenesis in the common carp Cyprinus carpio L.. Journal of Experimental Biology, 2004, 207, 4239-4248.	0.8	34
92	Antarctic Genomics. Comparative and Functional Genomics, 2004, 5, 230-238.	2.0	34
93	Profiling of maternal and developmental-stage specific mRNA transcripts in Atlantic halibut Hippoglossus hippoglossus. Gene, 2007, 386, 202-210.	1.0	34
94	Stac3 Is Required for Myotube Formation and Myogenic Differentiation in Vertebrate Skeletal Muscle. Journal of Biological Chemistry, 2012, 287, 43936-43949.	1.6	34
95	Influence of rearing temperature on the distribution of muscle fibre types in the turbot Scophthalmus maximus at metamorphosis. Journal of Experimental Marine Biology and Ecology, 1992, 161, 45-55.	0.7	33
96	Experimental selection for body size at age modifies early-life history traits and muscle gene expression in adult zebrafish. Journal of Experimental Biology, 2012, 215, 3895-904.	0.8	33
97	Muscle fibre composition of ratvastus intermedius following immobilisation at different muscle lengths. Pflugers Archiv European Journal of Physiology, 1979, 381, 195-200.	1.3	32
98	Muscle metabolism and growth in Antarctic fishes (suborder Notothenioidei): evolution in a cold environment. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2003, 136, 701-713.	0.7	32
99	Proliferation of myogenic progenitor cells following feeding in the sub-antarctic notothenioid fishHarpagifer bispinis. Journal of Experimental Biology, 2003, 206, 163-169.	0.8	32
100	Competition moderates the benefits of thermal acclimation to reproductive performance in male eastern mosquitofish. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 1199-1204.	1.2	32
101	Heritability of fibre number and size parameters and their genetic relationship to flesh quality traits in Atlantic salmon (Salmo salar L.). Aquaculture, 2007, 272, S100-S109.	1.7	32
102	Activity of Aspargate (Cathepsin D), Cysteine Proteases (Cathepsins B, B + L, and H), and Matrix Metallopeptidase (Collagenase) and Their Influence on Protein and Water-Holding Capacity of Muscle in Commercially Farmed Atlantic Halibut (Hippoglossus hippoglossus L.). Journal of Agricultural and Food Chemistry, 2008, 56, 5953-5959.	2.4	32
103	Physiology of muscle in hatchery raised fish. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1982, 73, 105-124.	0.2	31
104	Temperature and ontogeny in ectotherms: muscle phenotype in fish. , 1996, , 153-182.		31
105	Positioning the expanded akirin gene family of Atlantic salmon within the transcriptional networks of myogenesis. Biochemical and Biophysical Research Communications, 2010, 400, 599-605.	1.0	31
106	Capillarization, mitochondrial densities, oxygen diffusion distances and innervation of red and white muscle of the lizard Dipsosaurus dorsalis. Cell and Tissue Research, 1984, 237, 253-258.	1.5	30
107	Myogenic cell cycle duration in Harpagifer species with sub-Antarctic and Antarctic distributions: evidence for cold compensation. Journal of Experimental Biology, 2003, 206, 1011-1016.	0.8	30
108	Fast growth was not associated with an increased incidence of soft flesh and gaping in two strains of Atlantic salmon (Salmo salar) grown under different environmental conditions. Aquaculture, 2007, 265, 148-155.	1.7	30

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109	Profiling of the embryonic Atlantic halibut (Hippoglossus hippoglossus L.) transcriptome reveals maternal transcripts as potential markers of embryo quality. BMC Genomics, 2014, 15, 829.	1.2	30
110	A workflow used to design low density SNP panels for parentage assignment and traceability in aquaculture species and its validation in Atlantic salmon. Aquaculture, 2017, 476, 59-64.	1.7	30
111	Scaling effects on the neuromuscular system, twitch kinetics and morphometrics of the cod,Gadus morhua. Marine and Freshwater Behaviour and Physiology, 1990, 17, 137-146.	0.9	29
112	Temperature and developmental plasticity during embryogenesis in the Atlantic cod Gadus morhua L.. Marine Biology, 2003, 142, 833-840.	0.7	29
113	A genomic approach to reveal novel genes associated with myotube formation in the model teleost, Takifugu rubripes. Physiological Genomics, 2005, 22, 327-338.	1.0	29
114	Characterization of the transcriptome of fast and slow muscle myotomal fibres in the pacu (Piaractus mesopotamicus). BMC Genomics, 2015, 16, 182.	1.2	29
115	The thermal dependence of fast-start performance in fish. Journal of Thermal Biology, 1997, 22, 391-401.	1.1	28
116	Myogenin in model pufferfish species: Comparative genomic analysis and thermal plasticity of expression during early development. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2006, 1, 35-45.	0.4	27
117	Evolution of follistatin in teleosts revealed through phylogenetic, genomic and expression analyses. Development Genes and Evolution, 2008, 218, 1-14.	0.4	27
118	Embryonic temperature and the relative timing of muscle-specific genes during development in herring (<i>Clupea harengus</i>L.). Journal of Experimental Biology, 2001, 204, 3629-3637.	0.8	27
119	Thermal Dependence of Contractile Properties of Red and White Fibres Isolated From the Iliofibularis Muscle of the Desert Iguana (<i>Dipsosaurus Dorsalis</i>). Journal of Experimental Biology, 1984, 113, 123-132.	0.8	26
120	Effects Of Temperature And Thermal Acclimation On Contractile Properties And Metabolism Of Skeletal Muscle In The Flounder (<i>Platichthys Flesus</i> L.). Journal of Experimental Biology, 1986, 120, 119-130.	0.8	26
121	Evolutionary temperature adaptation and the calcium regulation of fish actomyosin ATPases. Journal of Comparative Physiology â–¡ B, 1979, 129, 169-177.	2.0	25
122	Morphometrics and ultrastructure of myocardial tissue in Notothenioid fishes. Fish Physiology and Biochemistry, 1987, 3, 1-6.	0.9	25
123	Sexual dimorphism of fast muscle fibre recruitment in farmed Atlantic halibut (Hippoglossus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.7	25
124	Phenotypic plasticity of fish muscle to temperature change. , 1993, , 322-340.		25
125	Muscle growth in the Antarctic teleost, Notothenia neglecta (Nybelin). Antarctic Science, 1991, 3, 29-33.	0.5	24
126	Quantitative Study of Capillary Supply to the Skeletal Muscles of Crucian Carp Carassius carassius L.: Effects of Hypoxic Acclimation. Physiological Zoology, 1984, 57, 9-18.	1.5	23

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127	FoxK1 splice variants show developmental stage-specific plasticity of expression with temperature in the tiger pufferfish. Journal of Experimental Biology, 2007, 210, 3461-3472.	0.8	23
128	Characterisation of capn1, capn2-like, capn3 and capn11 genes in Atlantic halibut (Hippoglossus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 nutritional states. Gene, 2010, 453, 45-58.	1.0	23
129	Divergent regulation of insulin-like growth factor binding protein genes in cultured Atlantic salmon myotubes under different models of catabolism and anabolism. General and Comparative Endocrinology, 2017, 247, 53-65.	0.8	23
130	Consequences of thermal acclimation for the mating behaviour and swimming performance of female mosquito fish. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 2131-2139.	1.8	22
131	Invertebrate muscle performance at high latitude: swimming activity in the Antarctic scallop, Adamussium colbecki. Polar Biology, 2005, 28, 464-469.	0.5	21
132	Muscle fibre number varies with haemoglobin phenotype in Atlantic cod as predicted by the optimal fibre number hypothesis. Biology Letters, 2006, 2, 590-592.	1.0	21
133	Muscle fibre size optimisation provides flexibility to energy budgeting in calorie-restricted Coho salmon transgenic for growth hormone. Journal of Experimental Biology, 2014, 217, 3392-5.	0.8	21
134	Anaerobic metabolism in the carp (Carassius carassius L.). Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1975, 51, 235-241.	0.2	20
135	Differential regulation of multiple alternatively spliced transcripts of MyoD. Gene, 2007, 391, 178-185.	1.0	20
136	RNAseq analysis of fast skeletal muscle in restriction-fed transgenic coho salmon (Oncorhynchus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 growth. BMC Genomics, 2015, 16, 564.	1.2	20
137	Energy metabolism of fast- and slow-twitch skeletal muscle in the rat: Thyroid hormone induced changes. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1981, 142, 465-472.	0.7	19
138	Maximal Activities of Enzymes of Energy Metabolism in Cephalopod Systemic and Branchial Hearts. Physiological Zoology, 1990, 63, 615-629.	1.5	19
139	Loss of muscle fibres in a landlocked dwarf Atlantic salmon population. Biology Letters, 2005, 1, 419-422.	1.0	18
140	Reptilian Skeletal Muscle: Contractile properties of identified, single fast-twitch and slow fibers from the lizardDipsosaurus dorsalis. The Journal of Experimental Zoology, 1987, 242, 283-290.	1.4	17
141	Muscle function in locomotion. Nature, 1988, 335, 767-768.	13.7	17
142	Phenotypic plasticity and evolutionary adaptations of mitochondria to temperature. , 1996, , 127-152.		17
143	Investigations on the Effects of Growth Rate and Dietary Vitamin C on Skeletal Muscle Collagen and Hydroxylysyl Pyridinoline Cross-Link Concentration in Farmed Atlantic Salmon (Salmo salar). Journal of Agricultural and Food Chemistry, 2007, 55, 510-515.	2.4	17
144	Evolutionary temperature adaptation of fish sarcoplasmic reticulum. Journal of Comparative Physiology â–¡ B, 1980, 135, 157-164.	2.0	16

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145	Temperature and neuromuscular development in embryos of the trout (Salmo trutta L.). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 1999, 122, 53-64.	0.8	16
146	Universal scaling rules predict evolutionary patterns of myogenesis in species with indeterminate growth. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 2255-2261.	1.2	16
147	Cardiac myoglobin deficit has evolved repeatedly in teleost fishes. Biology Letters, 2014, 10, 20140225.	1.0	16
148	On the design of fish myotomal muscles. Marine and Freshwater Behaviour and Physiology, 1983, 9, 83-98.	0.9	15
149	Thermal sensitivity of contractile function in chain pickerel, Esox niger. Canadian Journal of Zoology, 1985, 63, 811-816.	0.4	15
150	Insight into the complex genetic network of tetraploid Atlantic salmon (Salmo salar L.): Description of multiple novel Pax-7 splice variants. Gene, 2006, 373, 8-15.	1.0	15
151	Targeted rapid amplification of cDNA ends (T-RACE)--an improved RACE reaction through degradation of non-target sequences. Nucleic Acids Research, 2010, 38, e194-e194.	6.5	15
152	Systematic Variation in the Pattern of Gene Paralog Retention between the Teleost Superorders Ostariophysi and Acanthopterygii. Genome Biology and Evolution, 2014, 6, 981-987.	1.1	15
153	Thermal stress and muscle function in fish. , 0, , 79-104.		14
154	The molecular regulation of exercised-induced muscle fibre hypertrophy in the common carp: Expression of MyoD, PCNA and components of the calcineurin-signalling pathway. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2005, 142, 324-334.	0.7	14
155	Endurance exercise training in common carp Cyprinus carpio L. induces proliferation of myonuclei in fast muscle fibres and slow muscle fibre hypertrophy. Journal of Fish Biology, 2006, 69, 1221-1227.	0.7	14
156	Glycolytic and Gluconeogenic Enzyme Activities in the Skeletal Muscles and Liver of a Teleost Fish (Pleuronectes platessa). Biochemical Society Transactions, 1979, 7, 661-663.	1.6	13
157	Routine oxygen consumption and characteristics of the myotomal muscle in tench: Effects of long-term acclimation to hypoxia. Cell and Tissue Research, 1982, 227, 161-77.	1.5	13
158	Characterisation and expression of the paired box protein 7 (Pax7) gene in polymorphic Arctic charr (Salvelinus alpinus). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2006, 145, 371-383.	0.7	13
159	Characterisation of the swimming muscles of two Subantarctic notothenoids. Scientia Marina, 1999, 63, 477-484.	0.3	13
160	Temperature acclimatisation of swimming performance in the European Queen Scallop. Journal of Thermal Biology, 2005, 30, 119-124.	1.1	12
161	Number of muscle fibres in adult Atlantic cod varies with temperature during embryonic development and pantophysin (PanI) genotype. Aquatic Biology, 2008, 4, 167-173.	0.5	12
162	Muscle growth in Polar fish: a study of <i>Harpagifer</i> species with sub-Antarctic and Antarctic distributions. Fisheries Science, 2002, 68, 1023-1028.	0.7	11

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