

# John B Taggart

## List of Publications by Year in descending order

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81  
papers

5,542  
citations

66234

42  
h-index

82410

72  
g-index

82  
all docs

82  
docs citations

82  
times ranked

4966  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fitness reduction and potential extinction of wild populations of Atlantic salmon, <i>Salmo salar</i> , as a result of interactions with escaped farm salmon. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 2443-2450.	1.2	615
2	Considering adaptive genetic variation in climate change vulnerability assessment reduces species range loss projections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10418-10423.	3.3	308
3	Major Quantitative Trait Loci Affect Resistance to Infectious Pancreatic Necrosis in Atlantic Salmon ( <i>Salmo salar</i> ). <i>Genetics</i> , 2008, 178, 1109-1115.	1.2	262
4	Comparative Genome Analysis of the Primary Sex-Determining Locus in Salmonid Fishes. <i>Genome Research</i> , 2003, 13, 272-280.	2.4	228
5	Development and validation of a high density SNP genotyping array for Atlantic salmon ( <i>Salmo salar</i> ). <i>BMC Genomics</i> , 2014, 15, 90.	1.2	219
6	Genomic prediction of host resistance to sea lice in farmed Atlantic salmon populations. <i>Genetics Selection Evolution</i> , 2016, 48, 47.	1.2	203
7	Functional genomics reveals increases in cholesterol biosynthetic genes and highly unsaturated fatty acid biosynthesis after dietary substitution of fish oil with vegetable oils in Atlantic salmon ( <i>Salmo</i> ) Tj ETQq1 1 0.784314 rgBT/Overlock	1.2	142
8	A Linkage Map for Brown Trout ( <i>Salmo trutta</i> ): Chromosome Homeologies and Comparative Genome Organization With Other Salmonid Fish. <i>Genetics</i> , 2006, 172, 2405-2419.	1.2	147
9	Mapping and Validation of the Major Sex-Determining Region in Nile Tilapia ( <i>Oreochromis niloticus</i> L.) Using RAD Sequencing. <i>PLoS ONE</i> , 2013, 8, e68389.	1.1	144
10	Genotype-specific responses in Atlantic salmon ( <i>Salmo salar</i> ) subject to dietary fish oil replacement by vegetable oil: a liver transcriptomic analysis. <i>BMC Genomics</i> , 2011, 12, 255.	1.2	142
11	Mapping the sex determination locus in the Atlantic halibut ( <i>Hippoglossus hippoglossus</i> ) using RAD sequencing. <i>BMC Genomics</i> , 2013, 14, 566.	1.2	133
12	A comparative analysis of the rainbow trout genome with 2 other species of fish (Arctic charr and) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 2005, 48, 1037-1051.	0.9	122
13	Characterisation of QTL-linked and genome-wide restriction site-associated DNA (RAD) markers in farmed Atlantic salmon. <i>BMC Genomics</i> , 2012, 13, 244.	1.2	120
14	Multiple genes for functional $\Delta^6$ fatty acyl desaturases (Fad) in Atlantic salmon ( <i>Salmo salar</i> L.): Gene and cDNA characterization, functional expression, tissue distribution and nutritional regulation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 1072-1081.	1.2	119
15	A new SNP-based vision of the genetics of sex determination in European sea bass ( <i>Dicentrarchus</i> ) Tj ETQq1 1 0.784314 rgBT/Overlock 1.2 103	1.2	103
16	Genetic differentiation among the sympatric brown trout ( <i>Salmo trutta</i> ) populations of Lough Melvin, Ireland. <i>Biological Journal of the Linnean Society</i> , 1991, 43, 221-237.	0.7	102
17	A novel sex-determining QTL in Nile tilapia ( <i>Oreochromis niloticus</i> ). <i>BMC Genomics</i> , 2015, 16, 171.	1.2	102
18	Genotype Imputation To Improve the Cost-Efficiency of Genomic Selection in Farmed Atlantic Salmon. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 1377-1383.	0.8	93

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19	Effects of genotype and dietary fish oil replacement with vegetable oil on the intestinal transcriptome and proteome of Atlantic salmon ( <i>Salmo salar</i> ). <i>BMC Genomics</i> , 2012, 13, 448.	1.2	89
20	Multiple tissue transcriptomic responses to <i>Piscirickettsia salmonis</i> in Atlantic salmon ( <i>Salmo salar</i> ). <i>Physiological Genomics</i> , 2011, 43, 1241-1254.	1.0	88
21	PROGRAM NOTE: FAP: an exclusion-based parental assignment program with enhanced predictive functions. <i>Molecular Ecology Notes</i> , 2006, 7, 412-415.	1.7	84
22	Towards a System Level Understanding of Non-Model Organisms Sampled from the Environment: A Network Biology Approach. <i>PLoS Computational Biology</i> , 2011, 7, e1002126.	1.5	83
23	Gene expression comparison of resistant and susceptible Atlantic salmon fry challenged with Infectious Pancreatic Necrosis virus reveals a marked contrast in immune response. <i>BMC Genomics</i> , 2016, 17, 279.	1.2	78
24	An integrated framework to identify wildlife populations under threat from climate change. <i>Molecular Ecology Resources</i> , 2018, 18, 18-31.	2.2	71
25	Nutrigenomic profiling of transcriptional processes affected in liver and distal intestine in response to a soybean meal-induced nutritional stress in Atlantic salmon ( <i>Salmo salar</i> ). <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2015, 15, 1-11.	0.4	66
26	Analysis of the parental contribution to a group of fry from a single day of spawning from a commercial Atlantic cod ( <i>Gadus morhua</i> ) breeding tank. <i>Aquaculture</i> , 2008, 274, 218-224.	1.7	64
27	Identification of a Sex-Linked SNP Marker in the Salmon Louse ( <i>Lepeophtheirus salmonis</i> ) Using RAD Sequencing. <i>PLoS ONE</i> , 2013, 8, e77832.	1.1	63
28	Differential Gene Expression During Smoltification of Atlantic Salmon ( <i>Salmo salar</i> L.): a First Large-Scale Microarray Study. <i>Marine Biotechnology</i> , 2010, 12, 126-140.	1.1	59
29	Detection of hybridization between Chinese carp species ( <i>Hypophthalmichthys molitrix</i> and <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50</i> ). <i>Aquaculture</i> , 2005, 247, 267-273.	1.7	54
30	Parallel evolution and adaptation to environmental factors in a marine flatfish: Implications for fisheries and aquaculture management of the turbot ( <i>Scophthalmus maximus</i> ). <i>Evolutionary Applications</i> , 2018, 11, 1322-1341.	1.5	54
31	Mapping the sex determination locus in the hÅpuku ( <i>Polyprion oxygeneios</i> ) using ddRAD sequencing. <i>BMC Genomics</i> , 2016, 17, 448.	1.2	51
32	A minisatellite DNA marker for discriminating between European and North American Atlantic salmon ( <i>Salmo salar</i> ). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1995, 52, 2305-2311.	0.7	49
33	Diet–genotype interactions in hepatic cholesterol and lipoprotein metabolism in Atlantic salmon ( <i>Salmo salar</i> ) in response to replacement of dietary fish oil with vegetable oil. <i>British Journal of Nutrition</i> , 2011, 106, 1457-1469.	1.2	49
34	Salmon lice ( <i>Lepeophtheirus salmonis</i> ) showing varying emamectin benzoate susceptibilities differ in neuronal acetylcholine receptor and GABA-gated chloride channel mRNA expression. <i>BMC Genomics</i> , 2013, 14, 408.	1.2	49
35	A comparison of communal and separate rearing of families in selective breeding of common carp ( <i>Cyprinus carpio</i> ): Estimation of genetic parameters. <i>Aquaculture</i> , 2011, 322-323, 39-46.	1.7	48
36	A comparison of gene transcription profiles of domesticated and wild Atlantic salmon ( <i>Salmo salar</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.2	48

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37	Heritability estimation of silver carp ( <i>Hypophthalmichthys molitrix</i> ) harvest traits using microsatellite based parentage assignment. <i>Aquaculture</i> , 2009, 294, 187-193.	1.7	46
38	Exploring a Nonmodel Teleost Genome Through RAD Sequencing and Linkage Mapping in Common Pandora, <i>Pagellus erythrinus</i> and Comparative Genomic Analysis. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 509-519.	0.8	46
39	Heritability and mechanisms of n-3 long chain polyunsaturated fatty acid deposition in the flesh of Atlantic salmon. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2011, 6, 62-69.	0.4	45
40	Single locus inheritance and joint segregation analysis of minisatellite (VNTR) DNA loci in brown trout ( <i>Salmo trutta</i> L.). <i>Heredity</i> , 1994, 73, 556-566.	1.2	44
41	An evolutionary perspective on Elovl5 fatty acid elongase: comparison of Northern pike and duplicated paralogs from Atlantic salmon. <i>BMC Evolutionary Biology</i> , 2013, 13, 85.	3.2	44
42	A comparative analysis of the response of the hepatic transcriptome to dietary docosahexaenoic acid in Atlantic salmon ( <i>Salmo salar</i> ) post-smolts. <i>BMC Genomics</i> , 2015, 16, 684.	1.2	44
43	Expanding the miRNA Repertoire in Atlantic Salmon; Discovery of IsomiRs and miRNAs Highly Expressed in Different Tissues and Developmental Stages. <i>Cells</i> , 2019, 8, 42.	1.8	44
44	Construction and Annotation of a High Density SNP Linkage Map of the Atlantic Salmon ( <i>Salmo salar</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.8	40
45	DNA fingerprint analysis. <i>Hereditas</i> , 2008, 117, 45-50.	0.5	38
46	A comparison of communal and separate rearing of families in selective breeding of common carp ( <i>Cyprinus carpio</i> ): Responses to selection. <i>Aquaculture</i> , 2013, 408-409, 152-159.	1.7	36
47	Whole genome duplication and transposable element proliferation drive genome expansion in Corydoradinae catfishes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20172732.	1.2	32
48	Hepatic transcriptome analysis of inter-family variability in flesh n-3 long-chain polyunsaturated fatty acid content in Atlantic salmon. <i>BMC Genomics</i> , 2012, 13, 410.	1.2	31
49	Allozyme variation in the brown trout ( <i>Salmo trutta</i> L.): Single locus and joint segregation inheritance studies. <i>Heredity</i> , 1984, 53, 339-359.	1.2	29
50	Sequencing and Characterisation of an Extensive Atlantic Salmon ( <i>Salmo salar</i> L.) MicroRNA Repertoire. <i>PLoS ONE</i> , 2013, 8, e70136.	1.1	29
51	Sex determination in the GIFT strain of tilapia is controlled by a locus in linkage group 23. <i>BMC Genetics</i> , 2020, 21, 49.	2.7	28
52	Parentage allocation in a complex situation: A large commercial Atlantic cod ( <i>Gadus morhua</i> ) mass spawning tank. <i>Aquaculture</i> , 2007, 272, S195-S203.	1.7	27
53	Transcriptomic analysis of the host response to early stage salmonid alphavirus (SAV-1) infection in Atlantic salmon <i>Salmo salar</i> L.. <i>Fish and Shellfish Immunology</i> , 2012, 32, 796-807.	1.6	27
54	The effects of feeding Î²-glucan to Pangasianodon hypophthalmus on immune gene expression and resistance to <i>Edwardsiella ictaluri</i> . <i>Fish and Shellfish Immunology</i> , 2015, 47, 595-605.	1.6	25

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55	<i>Mycobacterium stomatepieae</i> sp. nov., a slowly growing, non-chromogenic species isolated from fish. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2008, 58, 2821-2827.	0.8	24
56	Parental contribution and spawning performance in captive common snook <i>Centropomus undecimalis</i> broodstock. <i>Aquaculture</i> , 2014, 432, 144-153.	1.7	24
57	Potential physiological effects of pharmaceutical compounds in Atlantic salmon ( <i>Salmo salar</i> ) implied by transcriptomic analysis. <i>Environmental Science and Pollution Research</i> , 2010, 17, 917-933.	2.7	23
58	Identification and validation of single nucleotide polymorphisms as tools to detect hybridization and population structure in freshwater stingrays. <i>Molecular Ecology Resources</i> , 2017, 17, 550-556.	2.2	23
59	Genetic analysis of goldsinny wrasse reveals evolutionary insights into population connectivity and potential evidence of inadvertent translocation via aquaculture. <i>ICES Journal of Marine Science</i> , 2017, 74, 2135-2147.	1.2	23
60	The <i>nedd-8</i> activating enzyme gene underlies genetic resistance to infectious pancreatic necrosis virus in Atlantic salmon. <i>Genomics</i> , 2021, 113, 3842-3850.	1.3	22
61	Communal larval rearing of European lobster ( <i>Homarus gammarus</i> ): Family identification by microsatellite DNA profiling and offspring fitness comparisons. <i>Aquaculture</i> , 2005, 247, 275-285.	1.7	20
62	Single nucleotide polymorphism discovery and panel characterization in the African forest elephant. <i>Ecology and Evolution</i> , 2018, 8, 2207-2217.	0.8	20
63	Species-Specific Marker Discovery in Tilapia. <i>Scientific Reports</i> , 2019, 9, 13001.	1.6	20
64	Comparing the transcriptomes of embryos from domesticated and wild Atlantic salmon ( <i>Salmo salar</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Evolution, 2016, 48, 20.	1.2	19
65	A Survey of the ATP-Binding Cassette (ABC) Gene Superfamily in the Salmon Louse ( <i>Lepeophtheirus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 19	1.1	19
66	Molecular epidemiological study on Infectious Pancreatic Necrosis Virus isolates from aquafarms in Scotland over three decades. <i>Journal of General Virology</i> , 2018, 99, 1567-1581.	1.3	18
67	The Impact of Escaped Farmed Atlantic Salmon ( <i>Salmo salar</i> L.) on Catch Statistics in Scotland. <i>PLoS ONE</i> , 2012, 7, e43560.	1.1	15
68	Genetic analysis redraws the management boundaries for the European sprat. <i>Evolutionary Applications</i> , 2020, 13, 1906-1922.	1.5	15
69	Genetically monomorphic brown trout ( <i>Salmo trutta</i> L.) populations, as revealed by mitochondrial DNA, multilocus and single-locus minisatellite (VNTR) analyses. <i>Heredity</i> , 1997, 79, 208-213.	1.2	14
70	Impact of Salmonid alphavirus infection in diploid and triploid Atlantic salmon ( <i>Salmo salar</i> L.) fry. <i>PLoS ONE</i> , 2017, 12, e0179192.	1.1	13
71	Copper induces Cu-ATPase ATP7A mRNA in a fish cell line, SAF1. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2011, 154, 93-99.	1.3	12
72	Forensic identification of severely degraded Atlantic salmon ( <i>Salmo salar</i> ) and rainbow trout ( <i>Oncorhynchus mykiss</i> ) tissues. <i>Investigative Genetics</i> , 2010, 1, 12.	3.3	10

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73	Gene-centromere mapping in meiotic gynogenetic European seabass. <i>BMC Genomics</i> , 2017, 18, 449.	1.2	10
74	Development and validation of a mixed-tissue oligonucleotide DNA microarray for Atlantic bluefin tuna, <i>Thunnus thynnus</i> (Linnaeus, 1758). <i>BMC Genomics</i> , 2015, 16, 1007.	1.2	8
75	Suitability of DNA sampled from Nile tilapia skin mucus swabs as a template for ddRAD-based studies. <i>Conservation Genetics Resources</i> , 2017, 9, 39-42.	0.4	8
76	A panel of minisatellite (VNTR) DNA locus specific probes for potential application to problems in salmonid aquaculture. <i>Aquaculture</i> , 1995, 137, 87-97.	1.7	5
77	Transcriptomic comparison of communally reared wild, domesticated and hybrid Atlantic salmon fry under stress and control conditions. <i>BMC Genetics</i> , 2020, 21, 57.	2.7	5
78	Differential Survival among Batches of Atlantic Cod ( <i>Gadus morhua</i> L.) from Fertilisation through to Post-Metamorphosis. <i>PLoS ONE</i> , 2016, 11, e0158091.	1.1	3
79	Linking Scales of Life-History Variation With Population Structure in Atlantic Cod. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	3
80	Genetically monomorphic brown trout ( <i>Salmo trutta</i> L.) populations, as revealed by mitochondrial DNA, multilocus and single-locus minisatellite (VNTR) analyses. <i>Heredity</i> , 1997, 79, 208-213.	1.2	2
81	Community Parameters and Genome-Wide RAD-Seq Loci of <i>Ceratomyxa oestroides</i> Imply Its Transfer between Farmed European Sea Bass and Wild Farm-Aggregating Fish. <i>Pathogens</i> , 2021, 10, 100.	1.2	1