

Louis Bernatchez

List of Publications by Year in descending order

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536
papers

37,301
citations

2318

98
h-index

6831

155
g-index

585
all docs

585
docs citations

585
times ranked

22853
citing authors

#	ARTICLE	IF	CITATIONS
1	FAST-TRACK: Integrating QTL mapping and genome scans towards the characterization of candidate loci under parallel selection in the lake whitefish (<i>Coregonus clupeaformis</i>). <i>Molecular Ecology</i> , 2004, 14, 351-361.	2.0	1,298
2	Environmental DNA metabarcoding: Transforming how we survey animal and plant communities. <i>Molecular Ecology</i> , 2017, 26, 5872-5895.	2.0	1,210
3	MHC studies in nonmodel vertebrates: what have we learned about natural selection in 15 years?. <i>Journal of Evolutionary Biology</i> , 2003, 16, 363-377.	0.8	786
4	Comparative phylogeography of Nearctic and Palearctic fishes. <i>Molecular Ecology</i> , 1998, 7, 431-452.	2.0	751
5	Adaptive evolutionary conservation: towards a unified concept for defining conservation units. <i>Molecular Ecology</i> , 2001, 10, 2741-2752.	2.0	717
6	Identifying Canadian Freshwater Fishes through DNA Barcodes. <i>PLoS ONE</i> , 2008, 3, e2490.	1.1	498
7	THE EVOLUTIONARY HISTORY OF BROWN TROUT (<i>SALMO TRUTTA</i> L.) INFERRED FROM PHYLOGEOGRAPHIC, NESTED CLADE, AND MISMATCH ANALYSES OF MITOCHONDRIAL DNA VARIATION. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 351-379.	1.1	420
8	Eco-Evolutionary Genomics of Chromosomal Inversions. <i>Trends in Ecology and Evolution</i> , 2018, 33, 427-440.	4.2	399
9	DNA sequence variation of the mitochondrial control region among geographically and morphologically remote European brown trout (<i>Salmo trutta</i>) populations. <i>Molecular Ecology</i> , 1992, 1, 161-173.	2.0	392
10	Extent and scale of local adaptation in salmonid fishes: review and meta-analysis. <i>Heredity</i> , 2011, 106, 404-420.	1.2	369
11	Good genes as heterozygosity: the major histocompatibility complex and mate choice in Atlantic salmon (<i>Salmo salar</i>). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 1279-1285.	1.2	315
12	Oceanic Spawning Migration of the European Eel (<i>Anguilla anguilla</i>). <i>Science</i> , 2009, 325, 1660-1660.	6.0	264
13	Individual-based genotype analysis in studies of parentage and population assignment: how many loci, how many alleles?. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2000, 57, 1-12.	0.7	248
14	Generic Scan Using AFLP Markers as a Means to Assess the Role of Directional Selection in the Divergence of Sympatric Whitefish Ecotypes. <i>Molecular Biology and Evolution</i> , 2004, 21, 945-956.	3.5	248
15	Genetic calibration of species diversity among North America's freshwater fishes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10602-10607.	3.3	241
16	RAD genotyping reveals fine-scale genetic structuring and provides powerful population assignment in a widely distributed marine species, the American lobster (<i>Homarus americanus</i>). <i>Molecular Ecology</i> , 2015, 24, 3299-3315.	2.0	239
17	Adaptive evolutionary conservation: towards a unified concept for defining conservation units. <i>Molecular Ecology</i> , 2001, 10, 2741-52.	2.0	236
18	Estimating fish abundance and biomass from eDNA concentrations: variability among capture methods and environmental conditions. <i>Molecular Ecology Resources</i> , 2016, 16, 1401-1414.	2.2	232

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19	The Genetic Architecture of Ecological Speciation and the Association with Signatures of Selection in Natural Lake Whitefish (<i>Coregonus</i> sp. Salmonidae) Species Pairs. <i>Molecular Biology and Evolution</i> , 2007, 24, 1423-1438.	3.5	226
20	HOLARCTIC PHYLOGEOGRAPHY OF ARCTIC CHARR (<i>SALVELINUS ALPINUS</i> L.) INFERRED FROM MITOCHONDRIAL DNA SEQUENCES. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 573.	1.1	225
21	Quantifying relative fish abundance with eDNA: a promising tool for fisheries management. <i>Journal of Applied Ecology</i> , 2016, 53, 1148-1157.	1.9	224
22	On the origin of species: insights from the ecological genomics of lake whitefish. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 1783-1800.	1.8	218
23	Specific microsatellite loci for brook charr reveal strong population subdivision on a microgeographic scale. <i>Journal of Fish Biology</i> , 1995, 47, 177-185.	0.7	217
24	Genetic evidence against panmixia in the European eel. <i>Nature</i> , 2001, 409, 1037-1040.	13.7	217
25	Parallel evolution of ecomorphological traits in the European whitefish <i>Coregonus lavaretus</i> (L.) species complex during postglacial times. <i>Molecular Ecology</i> , 2006, 15, 3983-4001.	2.0	215
26	SNP array reveals genome-wide patterns of geographical and potential adaptive divergence across the natural range of Atlantic salmon (<i>Salmo salar</i>). <i>Molecular Ecology</i> , 2013, 22, 532-551.	2.0	212
27	CLINAL VARIATION IN MHC DIVERSITY WITH TEMPERATURE: EVIDENCE FOR THE ROLE OF HOST-PATHOGEN INTERACTION ON LOCAL ADAPTATION IN ATLANTIC SALMON. <i>Evolution; International Journal of Organic Evolution</i> , 2007, 61, 2154-2164.	1.1	207
28	Network Analysis Highlights Complex Interactions between Pathogen, Host and Commensal Microbiota. <i>PLoS ONE</i> , 2013, 8, e84772.	1.1	205
29	Harnessing the Power of Genomics to Secure the Future of Seafood. <i>Trends in Ecology and Evolution</i> , 2017, 32, 665-680.	4.2	202
30	Framing the Salmonidae Family Phylogenetic Portrait: A More Complete Picture from Increased Taxon Sampling. <i>PLoS ONE</i> , 2012, 7, e46662.	1.1	201
31	Introgression and fixation of Arctic char (<i>Salvelinus alpinus</i>) mitochondrial genome in an allopatric population of brook trout (<i>Salvelinus fontinalis</i>). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1995, 52, 179-185.	0.7	191
32	Landscape genetics and hierarchical genetic structure in Atlantic salmon: the interaction of gene flow and local adaptation. <i>Molecular Ecology</i> , 2008, 17, 2382-2396.	2.0	187
33	THE GENETIC ARCHITECTURE OF REPRODUCTIVE ISOLATION DURING SPECIATION-WITH-GENE-FLOW IN LAKE WHITEFISH SPECIES PAIRS ASSESSED BY RAD SEQUENCING. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 2483-2497.	1.1	187
34	On the maintenance of genetic variation and adaptation to environmental change: considerations from population genomics in fishes. <i>Journal of Fish Biology</i> , 2016, 89, 2519-2556.	0.7	187
35	Going beyond SNPs: The role of structural genomic variants in adaptive evolution and species diversification. <i>Molecular Ecology</i> , 2019, 28, 1203-1209.	2.0	178
36	All roads lead to home: panmixia of European eel in the Sargasso Sea. <i>Molecular Ecology</i> , 2011, 20, 1333-1346.	2.0	176

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37	aflpop: a computer program for simulated and real population allocation, based on AFLP data. <i>Molecular Ecology Notes</i> , 2002, 2, 380-383.	1.7	174
38	Genomics in Conservation: Case Studies and Bridging the Gap between Data and Application. <i>Trends in Ecology and Evolution</i> , 2016, 31, 81-83.	4.2	173
39	Ecological determinants and temporal stability of the within-river population structure in Atlantic salmon (<i>Salmo salar</i> L.) *. <i>Molecular Ecology</i> , 2000, 9, 615-628.	2.0	172
40	Comparative analysis of population structure across environments and geographical scales at major histocompatibility complex and microsatellite loci in Atlantic salmon (<i>Salmo salar</i>). <i>Molecular Ecology</i> , 2002, 10, 2525-2539.	2.0	170
41	Parallel epigenetic modifications induced by hatchery rearing in a Pacific salmon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12964-12969.	3.3	170
42	AFLP utility for population assignment studies: analytical investigation and empirical comparison with microsatellites. <i>Molecular Ecology</i> , 2003, 12, 1979-1991.	2.0	163
43	Mining transcriptome sequences towards identifying adaptive single nucleotide polymorphisms in lake whitefish species pairs (<i>Coregonus</i> spp. Salmonidae). <i>Molecular Ecology</i> , 2010, 19, 115-131.	2.0	159
44	CORRELATED TROPHIC SPECIALIZATION AND GENETIC DIVERGENCE IN SYMPATRIC LAKE WHITEFISH ECOTYPES (<i>Coregonus clupeaformis</i>): SUPPORT FOR THE ECOLOGICAL SPECIATION HYPOTHESIS. <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 1491-1505.	1.1	156
45	LANDSCAPE STRUCTURE AND HIERARCHICAL GENETIC DIVERSITY IN THE BROOK CHARR, <i>Salvelinus fontinalis</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 1016.	1.1	156
46	Unbroken: RADseq remains a powerful tool for understanding the genetics of adaptation in natural populations. <i>Molecular Ecology Resources</i> , 2017, 17, 362-365.	2.2	156
47	Genetic diversity in caribou linked to past and future climate change. <i>Nature Climate Change</i> , 2014, 4, 132-137.	8.1	154
48	eDNA metabarcoding as a new surveillance approach for coastal Arctic biodiversity. <i>Ecology and Evolution</i> , 2018, 8, 7763-7777.	0.8	154
49	RNA-seq analysis reveals extensive transcriptional plasticity to temperature stress in a freshwater fish species. <i>BMC Genomics</i> , 2013, 14, 375.	1.2	152
50	Seascape genomics provides evidence for thermal adaptation and current-mediated population structure in American lobster (<i>Homarus americanus</i>). <i>Molecular Ecology</i> , 2016, 25, 5073-5092.	2.0	148
51	The ghost of hybrids past: fixation of arctic charr (<i>Salvelinus alpinus</i>) mitochondrial DNA in an introgressed population of lake trout (<i>S. namaycush</i>). <i>Molecular Ecology</i> , 1998, 7, 127-132.	2.0	147
52	papa (package for the analysis of parental allocation): a computer program for simulated and real parental allocation. <i>Molecular Ecology Notes</i> , 2002, 2, 191-193.	1.7	147
53	Mitochondrial control region and protein coding genes sequence variation among phenotypic forms of brown trout <i>Salmo trutta</i> from northern Italy. <i>Molecular Ecology</i> , 1994, 3, 161-171.	2.0	146
54	Consequences of unequal population size, asymmetric gene flow and sex-biased dispersal on population structure in brook charr (<i>Salvelinus fontinalis</i>). <i>Molecular Ecology</i> , 2004, 13, 67-80.	2.0	145

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55	Parallelism in gene transcription among sympatric lake whitefish (<i>Coregonus clupeaformis</i> Mitchill) ecotypes. <i>Molecular Ecology</i> , 2006, 15, 1239-1249.	2.0	144
56	Complex evolution of a salmonid microsatellite locus and its consequences in inferring allelic divergence from size information. <i>Molecular Biology and Evolution</i> , 1997, 14, 230-238.	3.5	143
57	Relationship between Bioenergetics and Behavior in Anadromous Fish Migrations. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1987, 44, 399-407.	0.7	141
58	DNA barcoding of Cuban freshwater fishes: evidence for cryptic species and taxonomic conflicts. <i>Molecular Ecology Resources</i> , 2010, 10, 421-430.	2.2	141
59	Stability of population structure and genetic diversity across generations assessed by microsatellites among sympatric populations of landlocked Atlantic salmon (<i>Salmo salar</i> L.). <i>Molecular Ecology</i> , 1999, 8, 169-179.	2.0	138
60	Predicting Responses to Contemporary Environmental Change Using Evolutionary Response Architectures. <i>American Naturalist</i> , 2017, 189, 463-473.	1.0	136
61	ADAPTIVE DIVERGENCE BETWEEN FRESHWATER AND MARINE STICKLEBACKS: INSIGHTS INTO THE ROLE OF PHENOTYPIC PLASTICITY FROM AN INTEGRATED ANALYSIS OF CANDIDATE GENE EXPRESSION. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 1029-1047.	1.1	135
62	Genome-wide single-generation signatures of local selection in the panmictic European eel. <i>Molecular Ecology</i> , 2014, 23, 2514-2528.	2.0	135
63	Combined Use of SMM and Non-SMM Methods to Infer Fine Structure and Evolutionary History of Closely Related Brook Charr (<i>Salvelinus fontinalis</i> , Salmonidea) Populations from Microsatellites. <i>Molecular Biology and Evolution</i> , 1998, 15, 143-159.	3.5	134
64	Genomewide single nucleotide polymorphism discovery in Atlantic salmon (<i>Salmo salar</i>): validation in wild and farmed American and European populations. <i>Molecular Ecology Resources</i> , 2016, 16, 1002-1011.	2.2	134
65	Divergent selection maintains adaptive differentiation despite high gene flow between sympatric rainbow smelt ecotypes (<i>Osmerus mordax</i> Mitchill). <i>Molecular Ecology</i> , 2003, 12, 315-330.	2.0	133
66	Genetic divergence between cave and surface populations of <i>Astyanax</i> in Mexico (Characidae). <i>Journal of Heredity</i> , 2010, 101, 50-60.	2.0	132
67	The Rise and Fall of Isolation by Distance in the Anadromous Brook Charr (<i>Salvelinus fontinalis</i>). <i>Journal of Heredity</i> , 2011, 102, 107-117.	1.2	132
68	Population structure and impact of supportive breeding inferred from mitochondrial and microsatellite DNA analyses in landlocked Atlantic salmon <i>Salmo salar</i> L.. <i>Molecular Ecology</i> , 1997, 6, 735-750.	2.0	131
69	Genetic diversity of trout (genus <i>Salmo</i>) from its most eastern native range based on mitochondrial DNA and nuclear gene variation. <i>Molecular Ecology</i> , 1995, 4, 285-298.	2.0	130
70	Contrasting patterns of mitochondrial DNA and microsatellite introgressive hybridization between lineages of lake whitefish (<i>Coregonus clupeaformis</i>); relevance for speciation. <i>Molecular Ecology</i> , 2001, 10, 965-985.	2.0	130
71	Evolutionary history of the European whitefish <i>Coregonus lavaretus</i> (L.) species complex as inferred from mtDNA phylogeography and gill-raker numbers. <i>Molecular Ecology</i> , 2005, 14, 4371-4387.	2.0	130
72	Evolutionary change in human-altered environments. <i>Molecular Ecology</i> , 2008, 17, 1-8.	2.0	130

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73	Allopatric Origin of Sympatric Populations of Lake Whitefish (<i>Coregonus clupeaformis</i>) as Revealed by Mitochondrial-DNA Restriction Analysis. <i>Evolution; International Journal of Organic Evolution</i> , 1990, 44, 1263.	1.1	128
74	<scp>RAD</scp> sequencing reveals within a generation polygenic selection in response to anthropogenic organic and metal contamination in North Atlantic Eels. <i>Molecular Ecology</i> , 2016, 25, 219-237.	2.0	127
75	Integrating molecular genetics and ecology in studies of adaptive radiation: whitefish, <i>Coregonus</i> sp., as a case study. <i>Biological Journal of the Linnean Society</i> , 1999, 68, 173-194.	0.7	126
76	Decline of North Atlantic eels: a fatal synergy?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 681-688.	1.2	125
77	Natural hybrids in Atlantic eels (<i>Anguilla anguilla</i> , <i>A. rostrata</i>): evidence for successful reproduction and fluctuating abundance in space and time. <i>Molecular Ecology</i> , 2006, 15, 1903-1916.	2.0	124
78	A Genetic Evaluation of Mating System and Determinants of Individual Reproductive Success in Atlantic Salmon (<i>Salmo salar</i> L.). , 2001, 92, 137-145.		122
79	High genetic diversity and no inbreeding in the endangered copper redhorse, <i>Moxostoma hubbsi</i> (Catostomidae, Pisces): the positive sides of a long generation time. <i>Molecular Ecology</i> , 2006, 15, 1769-1780.	2.0	121
80	Rapid parallel evolutionary changes of gene transcription profiles in farmed Atlantic salmon. <i>Molecular Ecology</i> , 2005, 15, 9-20.	2.0	120
81	Modeling the Multiple Facets of Speciation-with-Gene-Flow toward Inferring the Divergence History of Lake Whitefish Species Pairs (<i>Coregonus clupeaformis</i>). <i>Genome Biology and Evolution</i> , 2017, 9, 2057-2074.	1.1	120
82	Temporal change in genetic integrity suggests loss of local adaptation in a wild Atlantic salmon (<i>Salmo salar</i>) population following introgression by farmed escapees. <i>Heredity</i> , 2011, 106, 500-510.	1.2	119
83	Inter Individual Variations of the Fish Skin Microbiota: Host Genetics Basis of Mutualism?. <i>PLoS ONE</i> , 2014, 9, e102649.	1.1	119
84	Gene Coexpression Networks Reveal Key Drivers of Phenotypic Divergence in Lake Whitefish. <i>Molecular Biology and Evolution</i> , 2013, 30, 1384-1396.	3.5	115
85	Conservation genomics of anadromous Atlantic salmon across its North American range: outlier loci identify the same patterns of population structure as neutral loci. <i>Molecular Ecology</i> , 2014, 23, 5680-5697.	2.0	115
86	Multiple Modes of Speciation Involved in the Parallel Evolution of Sympatric Morphotypes of Lake Whitefish (<i>Coregonus clupeaformis</i> , Salmonidae). <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 196.	1.1	114
87	Evidence for broadscale introgressive hybridization between two redfish (genus <i>Sebastes</i>) in the North-west Atlantic: a rare marine example. <i>Molecular Ecology</i> , 2001, 10, 149-165.	2.0	113
88	Comparative estimation of effective population sizes and temporal gene flow in two contrasting population systems. <i>Molecular Ecology</i> , 2007, 16, 3866-3889.	2.0	113
89	Demographic and genetic approaches to study dispersal in wild animal populations: A methodological review. <i>Molecular Ecology</i> , 2018, 27, 3976-4010.	2.0	113
90	Effects of sampling effort on biodiversity patterns estimated from environmental DNA metabarcoding surveys. <i>Scientific Reports</i> , 2018, 8, 8843.	1.6	113

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91	RNA-seq Reveals Transcriptomic Shock Involving Transposable Elements Reactivation in Hybrids of Young Lake Whitefish Species. <i>Molecular Biology and Evolution</i> , 2014, 31, 1188-1199.	3.5	112
92	PHYLOGEOGRAPHIC STRUCTURE IN MITOCHONDRIAL DNA OF THE LAKE WHITEFISH (<i>COREGONUS</i>) of Organic Evolution, 1991, 45, 1016-1035.	1.1	111
93	Microsatellite and mitochondrial DNA assessment of population structure and stocking effects in Arctic charr <i>Salvelinus alpinus</i> (Teleostei: Salmonidae) from central Alpine lakes. <i>Molecular Ecology</i> , 1998, 7, 209-223.	2.0	110
94	Heterozygote deficiencies in small lacustrine populations of brook charr <i>Salvelinus fontinalis</i> Mitchill (Pisces, Salmonidae): a test of alternative hypotheses. <i>Heredity</i> , 2002, 89, 27-35.	1.2	109
95	Morphological divergence and origin of sympatric populations of European whitefish (<i>Coregonus</i>)	1.2	109
96	The transcriptomics of life history tradeoffs in whitefish species pairs (<i>Coregonus</i> sp.). <i>Molecular Ecology</i> , 2008, 17, 1850-1870.	2.0	109
97	The Genetic Consequences of Spatially Varying Selection in the Panmictic American Eel (<i>Anguilla</i>)	1.2	109
98	Glacial cycles as an allopatric speciation pump in northeastern American freshwater fishes. <i>Molecular Ecology</i> , 2013, 22, 409-422.	2.0	109
99	Phylogenetic Relationships among Palearctic and Nearctic Whitefish (<i>Coregonus</i> sp.) Populations as Revealed by Mitochondrial DNA Variation. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1994, 51, 240-251.	0.7	108
100	The genetic basis of intrinsic and extrinsic post-zygotic reproductive isolation jointly promoting speciation in the lake whitefish species complex (<i>Coregonus clupeaformis</i>). <i>Journal of Evolutionary Biology</i> , 2006, 19, 1979-1994.	0.8	108
101	Canonical correspondence analysis for estimating spatial and environmental effects on microsatellite gene diversity in brook charr (<i>Salvelinus fontinalis</i>). <i>Molecular Ecology</i> , 1999, 8, 1043-1053.	2.0	107
102	GENETICALLY BASED PHENOTYPE-ENVIRONMENT ASSOCIATION FOR SWIMMING BEHAVIOR IN LAKE WHITEFISH ECOTYPES (<i>COREGONUS CLUPEAFORMIS</i> MITCHILL). <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 2322-2329.	1.1	107
103	Correlated Trophic Specialization and Genetic Divergence in Sympatric Lake Whitefish Ecotypes (<i>Coregonus clupeaformis</i>): Support for the Ecological Speciation Hypothesis. <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 1491.	1.1	106
104	MHC standing genetic variation and pathogen resistance in wild Atlantic salmon. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 1555-1565.	1.8	106
105	LANDSCAPE GENOMICS IN ATLANTIC SALMON (<i>SALMO SALAR</i>): SEARCHING FOR GENE-ENVIRONMENT INTERACTIONS DRIVING LOCAL ADAPTATION. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 3469-3487.	1.1	106
106	Potential of microsatellites for individual assignment: the North Atlantic redfish (genus <i>Sebastes</i>) species complex as a case study. <i>Molecular Ecology</i> , 1999, 8, 1703-1717.	2.0	104
107	Loss of genetic integrity correlates with stocking intensity in brook charr (<i>Salvelinus fontinalis</i>). <i>Molecular Ecology</i> , 2010, 19, 2025-2037.	2.0	103
108	Gene Expression Divergence and Hybrid Misexpression between Lake Whitefish Species Pairs (<i>Coregonus</i> spp. Salmonidae). <i>Molecular Biology and Evolution</i> , 2009, 26, 925-936.	3.5	101

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109	Population genetics of the American eel (<i>Anguilla rostrata</i>): <i>F_{ST}</i> and <i>N_e</i> orthoatlantic oscillation effects on demographic fluctuations of a panmictic species. <i>Molecular Ecology</i> , 2013, 22, 1763-1776.	2.0	101
110	A road map for molecular ecology. <i>Molecular Ecology</i> , 2013, 22, 2605-2626.	2.0	100
111	Genome-wide patterns of divergence during speciation: the lake whitefish case study. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 354-363.	1.8	99
112	Reduced fitness of Atlantic salmon released in the wild after one generation of captive breeding. <i>Evolutionary Applications</i> , 2013, 6, 472-485.	1.5	99
113	Functional Annotation of All Salmonid Genomes (FAASG): an international initiative supporting future salmonid research, conservation and aquaculture. <i>BMC Genomics</i> , 2017, 18, 484.	1.2	99
114	Parallel evolution of lake whitefish dwarf ecotypes in association with limnological features of their adaptive landscape. <i>Journal of Evolutionary Biology</i> , 2007, 20, 971-984.	0.8	97
115	Heritability of life-history tactics and genetic correlation with body size in a natural population of brook charr (<i>Salvelinus fontinalis</i>). <i>Journal of Evolutionary Biology</i> , 2007, 20, 2266-2277.	0.8	97
116	Aquatic Landscape Genomics and Environmental Effects on Genetic Variation. <i>Trends in Ecology and Evolution</i> , 2019, 34, 641-654.	4.2	97
117	Do assemblages of <i>Coregonus</i> (Teleostei: Salmoniformes) in the Central Alpine region of Europe represent species flocks?. <i>Molecular Ecology</i> , 1999, 8, 589-603.	2.0	96
118	Species Flock in the North American Great Lakes: Molecular Ecology of Lake Nipigon Ciscoes (Teleostei: <i>Coregonus artedii</i>)	1.1	96
119	A Comparative Mitogenomic Analysis of the Potential Adaptive Value of Arctic Charr mtDNA Introgression in Brook Charr Populations (<i>Salvelinus fontinalis</i> Mitchell). <i>Molecular Biology and Evolution</i> , 2002, 19, 1902-1909.	3.5	96
120	Genetic consequences of interbreeding between farmed and wild Atlantic salmon: insights from the transcriptome. <i>Molecular Ecology</i> , 2008, 17, 314-324.	2.0	96
121	Mapping phenotypic, expression and transmission ratio distortion QTL using RAD markers in the Lake Whitefish (<i>Coregonus clupeaformis</i>). <i>Molecular Ecology</i> , 2013, 22, 3036-3048.	2.0	96
122	DIFFERENTIAL REPRODUCTIVE SUCCESS AND HERITABILITY OF ALTERNATIVE REPRODUCTIVE TACTICS IN WILD ATLANTIC SALMON (<i>SALMO SALAR</i> L). <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 1133.	1.1	95
123	Transatlantic secondary contact in Atlantic Salmon, comparing microsatellites, a single nucleotide polymorphism array and restriction site associated DNA sequencing for the resolution of complex spatial structure. <i>Molecular Ecology</i> , 2015, 24, 5130-5144.	2.0	94
124	Genetic and morphological variation between two forms of lacustrine brook charr. <i>Journal of Fish Biology</i> , 1999, 54, 955-972.	0.7	93
125	The transcriptomics of sympatric dwarf and normal lake whitefish (<i>Coregonus clupeaformis</i> spp.,) Tj ETQq1 1.0.784314 rgBT /Overlock 5389-5403.	2.0	93
126	Integrating Traditional and Evolutionary Knowledge in Biodiversity Conservation: a Population Level Case Study. <i>Ecology and Society</i> , 2006, 11, .	1.0	92

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127	Asymmetric oceanographic processes mediate connectivity and population genetic structure, as revealed by RADseq, in a highly dispersive marine invertebrate (<i>Parastichopus</i>)	1.0	91
128	Mitochondrial DNA analysis confirms the existence of two glacial races of rainbow smelt <i>Osmerus mordax</i> and their reproductive isolation in the St Lawrence River estuary (Quebec, Canada). <i>Molecular Ecology</i> , 1997, 6, 73-83.	2.0	91
129	MHC Adaptive Divergence between Closely Related and Sympatric African Cichlids. <i>PLoS ONE</i> , 2007, 2, e734.	1.1	91
130	A climate-associated multispecies cryptic cline in the northwest Atlantic. <i>Science Advances</i> , 2018, 4, eaaq0929.	4.7	91
131	The seabird paradox: dispersal, genetic structure and population dynamics in a highly mobile, but philopatric albatross species. <i>Molecular Ecology</i> , 2008, 17, 1658-1673.	2.0	90
132	The landscape genetics of yellow perch (<i>Perca flavescens</i>) in a large fluvial ecosystem. <i>Molecular Ecology</i> , 2008, 17, 1702-1717.	2.0	89
133	An integrated comparison of captive-bred and wild Atlantic salmon (<i>Salmo salar</i>): Implications for supportive breeding programs. <i>Biological Conservation</i> , 2008, 141, 1989-1999.	1.9	89
134	CLINAL VARIATION AT MICROSATELLITE LOCI REVEALS HISTORICAL SECONDARY INTERGRADATION BETWEEN GLACIAL RACES OF COREGONUS ARTEDI (TELEOSTEI: COREGONINAE). <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 2274-2286.	1.1	88
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270	The genetic basis of early-life morphological traits and their relation to alternative male reproductive tactics in Atlantic salmon. <i>Journal of Evolutionary Biology</i> , 2010, 23, 757-768.	0.8	39

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271	A multi-level biological approach to evaluate impacts of a major municipal effluent in wild St. Lawrence River yellow perch (<i>Perca flavescens</i>). <i>Science of the Total Environment</i> , 2014, 497-498, 307-318.	3.9	39
272	Microsatellite gene diversity analysis in anadromous arctic char, <i>Salvelinus alpinus</i> , from Labrador, Canada. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1998, 55, 1264-1272.	0.7	38
273	SHIFTING PATTERNS IN GENETIC CONTROL AT THE EMBRYO-ALEVIN BOUNDARY IN BROOK CHARR. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 2002-2012.	1.1	38
274	Alternative developmental pathways and the propensity to migrate: a case study in the Atlantic salmon. <i>Journal of Evolutionary Biology</i> , 2011, 24, 245-255.	0.8	38
275	Short-Term Genetic Changes: Evaluating Effective Population Size Estimates in a Comprehensively Described Brown Trout (<i>Salmo trutta</i>) Population. <i>Genetics</i> , 2012, 191, 579-592.	1.2	38
276	Nonparallelism in MHCII ^{Î²} diversity accompanies nonparallelism in pathogen infection of lake whitefish (<i>Cyprinus oregonus clupeaformis</i>) species pairs as revealed by next-generation sequencing. <i>Molecular Ecology</i> , 2013, 22, 3833-3849.	2.0	38
277	Evolutionary change driven by metal exposure as revealed by coding SNP genome scan in wild yellow perch (<i>Perca flavescens</i>). <i>Ecotoxicology</i> , 2013, 22, 938-957.	1.1	38
278	Speciation and demographic history of Atlantic eels (<i>Anguilla anguilla</i> and <i>A. rostrata</i>) revealed by mitogenome sequencing. <i>Heredity</i> , 2014, 113, 432-442.	1.2	38
279	Sex Chromosome Evolution, Heterochiasmy, and Physiological QTL in the Salmonid Brook Charr <i>Salvelinus fontinalis</i> . <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 2749-2762.	0.8	38
280	Polygenic selection drives the evolution of convergent transcriptomic landscapes across continents within a Nearctic sister species complex. <i>Molecular Ecology</i> , 2019, 28, 4388-4403.	2.0	38
281	Demographic history shaped geographical patterns of deleterious mutation load in a broadly distributed Pacific Salmon. <i>PLoS Genetics</i> , 2020, 16, e1008348.	1.5	38
282	Physiological, Endocrine, and Genetic Bases of Anadromy in the Brook Charr, <i>Salvelinus Fontinalis</i> , of the Laval River (Québec, Canada). <i>Environmental Biology of Fishes</i> , 2002, 64, 229-242.	0.4	37
283	Fast Transcriptional Responses to Domestication in the Brook Charr <i>Salvelinus fontinalis</i> . <i>Genetics</i> , 2010, 185, 105-112.	1.2	37
284	Targeted sequence capture and resequencing implies a predominant role of regulatory regions in the divergence of a sympatric lake whitefish species pair (<i>Cyprinus oregonus clupeaformis</i>). <i>Molecular Ecology</i> , 2013, 22, 4896-4914.	2.0	37
285	Genomic footprints of speciation in Atlantic eels (<i>Anguilla anguilla</i> and <i>A. rostrata</i>). <i>Molecular Ecology</i> , 2014, 23, 4785-4798.	2.0	37
286	Genetic mixed stock analysis of an interceptory Atlantic salmon fishery in the Northwest Atlantic. <i>Fisheries Research</i> , 2016, 174, 234-244.	0.9	37
287	Intercontinental karyotype environment parallelism supports a role for a chromosomal inversion in local adaptation in a seaweed fly. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180519.	1.2	37
288	Comparing PoolSeq, Rapture, and GBS genotyping for inferring weak population structure: The American lobster (<i>Homarus americanus</i>) as a case study. <i>Ecology and Evolution</i> , 2019, 9, 6606-6623.	0.8	37

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290	Evidence for independent origin of two spring-spawning ciscoes (Salmoniformes: Coregonidae) in Germany. <i>Journal of Fish Biology</i> , 2006, 68, 119-135.	0.7	36
291	Major disruption of gene expression in hybrids between young sympatric anadromous and resident populations of brook charr (<i>Salvelinus fontinalis</i> Mitchell). <i>Journal of Evolutionary Biology</i> , 2009, 22, 1708-1720.	0.8	36
292	Small-scale dispersal and population structure in stream-living brown trout (<i>Salmo trutta</i>) inferred by mark-recapture, pedigree reconstruction, and population genetics. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2012, 69, 1513-1524.	0.7	36
293	Genetic evidence of local exploitation of Atlantic salmon in a coastal subsistence fishery in the Northwest Atlantic. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2015, 72, 83-95.	0.7	36
294	Standing chromosomal variation in Lake Whitefish species pairs: the role of historical contingency and relevance for speciation. <i>Molecular Ecology</i> , 2017, 26, 178-192.	2.0	36
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298	Transcriptome profile analysis reveals specific signatures of pollutants in Atlantic eels. <i>Ecotoxicology</i> , 2015, 24, 71-84.	1.1	35
299	Range-wide parallel climate-associated genomic clines in Atlantic salmon. <i>Royal Society Open Science</i> , 2017, 4, 171394.	1.1	35
300	RAD-Seq Reveals Patterns of Additive Polygenic Variation Caused by Spatially-Varying Selection in the American Eel (<i>Anguilla rostrata</i>). <i>Genome Biology and Evolution</i> , 2017, 9, 2974-2986.	1.1	35
301	Incorporating putatively neutral and adaptive genomic data into marine conservation planning. <i>Conservation Biology</i> , 2021, 35, 909-920.	2.4	35
302	Benchmarking bioinformatic tools for fast and accurate eDNA metabarcoding species identification. <i>Molecular Ecology Resources</i> , 2021, 21, 2565-2579.	2.2	35
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304	Genetic variance and covariance for 0+ brook charr (<i>Salvelinus fontinalis</i>) weight and survival time of furunculosis (<i>Aeromonas salmonicida</i>) exposure. <i>Aquaculture</i> , 2004, 235, 263-271.	1.7	34
305	Mate choice for major histocompatibility complex genetic divergence as a bet-hedging strategy in the Atlantic salmon (<i>Salmo salar</i>). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 379-386.	1.2	34
306	Life history and demographic determinants of effective/census size ratios as exemplified by brown trout (<i>Salmo trutta</i>). <i>Evolutionary Applications</i> , 2012, 5, 607-618.	1.5	34

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308	Population bottlenecks: influence on mitochondrial DNA diversity and its effect in coregonine stock discrimination. <i>Journal of Fish Biology</i> , 1989, 35, 233-244.	0.7	33
309	Pleistocene genetic legacy suggests incipient species of <i>Sebastes mentella</i> in the Irminger Sea. <i>Heredity</i> , 2009, 102, 514-524.	1.2	33
310	How does exposure to nickel and cadmium affect the transcriptome of yellow perch (<i>Perca</i>)? <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 622-633.	1.9	33
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312	A genomic perspective on an old question: <i>Salmo</i> trouts or <i>Salmo trutta</i> (Teleostei: Salmonidae)? <i>Molecular Phylogenetics and Evolution</i> , 2021, 162, 107204.	1.2	33
313	Adaptation and acclimation of aerobic exercise physiology in Lake Whitefish ecotypes (<i>Coregonus</i>). <i>Journal of Fish Biology</i> , 2011, 78, 314-322.	1.1	32
314	Pathway to Increase Standards and Competency of eDNA Surveys (PISCeS): Advancing collaboration and standardization efforts in the field of eDNA. <i>Environmental DNA</i> , 2020, 2, 255-260.	3.1	32
315	Mitochondrial DNA diversity, population structure, and conservation genetics of four native carps within the Yangtze River, China. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1997, 54, 47-58.	0.7	31
316	Quantitative genetic parameters for wild stream-dwelling brown trout: heritability and parental effects. <i>Journal of Evolutionary Biology</i> , 2010, 23, 1631-1641.	0.8	31
317	Growth, Female Size, and Sex Ratio Variability in American Eel of Different Origins in Both Controlled Conditions and the Wild: Implications for Stocking Programs. <i>Transactions of the American Fisheries Society</i> , 2015, 144, 246-257.	0.6	31
318	Epigenomic modifications induced by hatchery rearing persist in germ line cells of adult salmon after their oceanic migration. <i>Evolutionary Applications</i> , 2021, 14, 2402-2413.	1.5	31
319	Genetic structure and relationships among anadromous and landlocked populations of rainbow smelt, <i>Osmerus mordax</i> , Mitchell, as revealed by mtDNA restriction analysis. <i>Journal of Fish Biology</i> , 1991, 39, 61-68.	0.7	30
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321	PERM: a computer program to detect structuring factors in social units. <i>Molecular Ecology Notes</i> , 2006, 6, 965-967.	1.7	30
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323	Heterosis and outbreeding depression between strains of young-of-the-year brook trout (<i>Salvelinus fontinalis</i>). <i>Canadian Journal of Zoology</i> , 2011, 89, 190-198.	0.4	30
324	Oxidative phosphorylation gene transcription in whitefish species pairs reveals patterns of parallel and nonparallel physiological divergence. <i>Journal of Evolutionary Biology</i> , 2012, 25, 1823-1834.	0.8	30

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326	Waterborne cadmium and nickel impact oxidative stress responses and retinoid metabolism in yellow perch. <i>Aquatic Toxicology</i> , 2014, 154, 207-220.	1.9	30
327	Metabolic Rate and Climatic Fluctuations Shape Continental Wide Pattern of Genetic Divergence and Biodiversity in Fishes. <i>PLoS ONE</i> , 2013, 8, e70296.	1.1	30
328	Isolation and cross-familial amplification of 41 microsatellites for the brook charr (<i>Salvelinus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	1.7	29
329	HOLARCTIC PHYLOGEOGRAPHY OF ARCTIC CHARR (<i>SALVELINUS ALPINUS</i> L.) INFERRED FROM MITOCHONDRIAL DNA SEQUENCES. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 573-586.	1.1	29
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331	Parallelism in the oxygen transport system of the lake whitefish: the role of physiological divergence in ecological speciation. <i>Molecular Ecology</i> , 2012, 21, 4038-4050.	2.0	29
332	Evidence for host effect on the intestinal microbiota of whitefish (<i>Coregonus</i> sp.) species pairs and their hybrids. <i>Ecology and Evolution</i> , 2019, 9, 11762-11774.	0.8	29
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338	Stocking impacts the expression of candidate genes and physiological condition in introgressed brook charr (<i>Salvelinus fontinalis</i>) populations. <i>Evolutionary Applications</i> , 2013, 6, 393-407.	1.5	27
339	Reproductive isolation in a nascent species pair is associated with aneuploidy in hybrid offspring. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142862.	1.2	27
340	Implications for management and conservation of the population genetic structure of the wedge clam <i>Donax trunculus</i> across two biogeographic boundaries. <i>Scientific Reports</i> , 2016, 6, 39152.	1.6	27
341	Genome Compositional Organization in Gars Shows More Similarities to Mammals than to Other Ray-finned Fish. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2017, 328, 607-619.	0.6	27
342	Range-wide regional assignment of Atlantic salmon (<i>Salmo salar</i>) using genome wide single-nucleotide polymorphisms. <i>Fisheries Research</i> , 2018, 206, 163-175.	0.9	27

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344	Proper environmental DNA metabarcoding data transformation reveals temporal stability of fish communities in a dendritic river system. <i>Environmental DNA</i> , 2021, 3, 1007-1022.	3.1	27
345	Stable genetic polymorphism in heterogeneous environments: balance between asymmetrical dispersal and selection in the acorn barnacle. <i>Journal of Evolutionary Biology</i> , 2006, 19, 589-599.	0.8	26
346	The effects of abiotic factors and intraspecific versus interspecific competition on the diel activity patterns of Atlantic salmon (<i>Salmo salar</i>) fry. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2008, 65, 1545-1553.	0.7	26
347	Genetic mixed-stock analysis disentangles spatial and temporal variation in composition of the West Greenland Atlantic Salmon fishery. <i>ICES Journal of Marine Science</i> , 2016, 73, 2311-2321.	1.2	26
348	Fine-scale environmental heterogeneity shapes fluvial fish communities as revealed by eDNA metabarcoding. <i>Environmental DNA</i> , 2020, 2, 647-666.	3.1	26
349	Fish community shifts along a strong fluvial environmental gradient revealed by eDNA metabarcoding. <i>Environmental DNA</i> , 2022, 4, 117-134.	3.1	26
350	Behavioural and Growth Responses of a Territorial Fish (Atlantic Salmon, <i>Salmo salar</i> , L.) to Multiple Predatory Cues. <i>Ethology</i> , 2007, 113, 1061-1072.	0.5	25
351	The morphological plastic response to water current velocity varies with age and sexual state in juvenile Atlantic salmon, <i>Salmo salar</i> . <i>Freshwater Biology</i> , 2008, 53, 1544-1554.	1.2	25
352	The origins and persistence of anadromy in brook charr. <i>Reviews in Fish Biology and Fisheries</i> , 2010, 20, 557-570.	2.4	25
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355	Impact of supplementation on deleterious mutation distribution in an exploited salmonid. <i>Evolutionary Applications</i> , 2018, 11, 1053-1065.	1.5	25
356	A mtDNA analysis of spatiotemporal distribution of two sympatric larval populations of rainbow smelt (<i>Osmerus mordax</i>) in the St. Lawrence River estuary, Quebec, Canada. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1998, 55, 1739-1747.	0.7	24
357	Interplay between ecological, behavioural and historical factors in shaping the genetic structure of sympatric walleye populations (<i>Sander vitreus</i>). <i>Molecular Ecology</i> , 2006, 16, 937-951.	2.0	24
358	Coding Gene Single Nucleotide Polymorphism Mapping and Quantitative Trait Loci Detection for Physiological Reproductive Traits in Brook Charr, <i>Salvelinus fontinalis</i> . <i>G3: Genes, Genomes, Genetics</i> , 2012, 2, 379-392.	0.8	24
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360	Adaptation and acclimation of traits associated with swimming capacity in Lake Whitefish (<i>Coregonus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.25	24

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362	Population genomics and history of speciation reveal fishery management gaps in two related redfish species (<i>Sebastes mentella</i> and <i>Sebastes fasciatus</i>). <i>Evolutionary Applications</i> , 2021, 14, 588-606.	1.5	24
363	The rise and fall of the ancient northern pike master sex-determining gene. <i>ELife</i> , 2021, 10, .	2.8	24
364	Usefulness of heterologous microsatellites obtained from brook charr, <i>Salvelinus fontinalis</i> Mitchell, in other <i>Salvelinus</i> species. <i>Molecular Ecology</i> , 1996, 5, 317-319.	2.0	23
365	A study of fluctuating asymmetry in hybrids of dwarf and normal lake whitefish ecotypes (<i>Coregonus</i>). <i>Tj ETQq1 1 0,784314 rgBT /Over</i>	1.2	23
366	NONLINEAR EFFECTS OF FEMALE MATE CHOICE IN WILD THREESPINE STICKLEBACKS. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 2498-2510.	1.1	23
367	LANDSCAPE STRUCTURE AND HIERARCHICAL GENETIC DIVERSITY IN THE BROOK CHARR, <i>SALVELINUS FONTINALIS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 1016-1028.	1.1	23
368	Insights into the role of differential gene expression on the ecological adaptation of the snail <i>Littorina saxatilis</i> . <i>BMC Evolutionary Biology</i> , 2010, 10, 356.	3.2	23
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370	Telemetry reveals how catch and release affects prespawning migration in Atlantic salmon (<i>Salmo</i>). <i>Tj ETQq0 0 0, rgBT /Overlock 10 Tf</i>	0.7	23
371	How does salinity influence habitat selection and growth in juvenile American eels (<i>Anguilla rostrata</i>)?. <i>Journal of Fish Biology</i> , 2015, 86, 765-784.	0.7	23
372	Comparing CRISPR-Cas and qPCR eDNA assays for the detection of Atlantic salmon (<i>Salmo salar</i>). <i>Tj ETQq0 0 0, rgBT /Overlock 1</i>	3.1	23
373	A genetic assessment of single versus double origin of landlocked Atlantic salmon (<i>Salmo salar</i>) from Lake Saint-Jean, QuÉbec, Canada. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2000, 57, 797-804.	0.7	22
374	THE EVOLUTIONARY HISTORY OF BROWN TROUT (<i>SALMO TRUTTA</i> L.) INFERRED FROM PHYLOGEOGRAPHIC, NESTED CLADE, AND MISMATCH ANALYSES OF MITOCHONDRIAL DNA VARIATION. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 351.	1.1	22
375	Temperature and length-dependent modulation of the MH class II ^β gene expression in brook charr (<i>Salvelinus fontinalis</i>) by a cis-acting minisatellite. <i>Molecular Immunology</i> , 2010, 47, 1817-1829.	1.0	22
376	Phylogenetic status of brown trout (<i>Salmo trutta</i>) populations in five rivers from the southern Caspian Sea and two inland lake basins, Iran: a morphogenetic approach. <i>Journal of Fish Biology</i> , 2012, 81, 1479-1500.	0.7	22
377	Combining next-generation sequencing and online databases for microsatellite development in non-model organisms. <i>Scientific Reports</i> , 2013, 3, 3376.	1.6	22
378	Variable extent of parallelism in respiratory, circulatory, and neurological traits across lake whitefish species pairs. <i>Ecology and Evolution</i> , 2013, 3, 546-557.	0.8	22

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380	Quantitative genetic analysis of the physiological stress response in three strains of brook charr <i>Salvelinus fontinalis</i> and their hybrids. Journal of Fish Biology, 2011, 79, 2019-2033.	0.7	21
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382	The influence of parental effects on transcriptomic landscape during early development in brook charr (<i>Salvelinus fontinalis</i> , Mitchill). Heredity, 2013, 110, 484-491.	1.2	21
383	Neutral and selective processes shape MHC gene diversity and expression in stocked brook charr populations (<i>Salvelinus fontinalis</i>). Molecular Ecology, 2014, 23, 1730-1748.	2.0	21
384	Draft genome of the American Eel (<i>Anguilla rostrata</i>). Molecular Ecology Resources, 2017, 17, 806-811.	2.2	21
385	Microsatellite Gene Diversity Analysis in Landlocked Arctic Char from Maine. Transactions of the American Fisheries Society, 2002, 131, 1106-1118.	0.6	20
386	Diversity and evolution of MHC genes in a non-model percid species – The Eurasian perch (<i>Perca fluviatilis</i>). Molecular Ecology Resources, 2017, 17, 1000-1010.	1.0	20
387	Alternative life histories in the Atlantic salmon: genetic covariances within the sneaker sexual tactic in males. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2150-2158.	1.2	20
388	Phenotypic and phylogenetic correlates of geographic range size in Canadian freshwater fishes. Global Ecology and Biogeography, 2013, 22, 1083-1094.	2.7	20
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392	Genetically based population divergence in overwintering energy mobilization in brook charr (<i>Salvelinus fontinalis</i>). Genetica, 2013, 141, 51-64.	0.5	19
393	Strain Specific Genotype × Environment Interactions and Evolutionary Potential for Body Mass in Brook Charr (<i>Salvelinus fontinalis</i>). G3: Genes, Genomes, Genetics, 2013, 3, 379-386.	0.8	19
394	Do North Atlantic eels show parallel patterns of spatially varying selection?. BMC Evolutionary Biology, 2014, 14, 138.	3.2	19
395	Transcriptional and biochemical markers in transplanted <i>Perca flavescens</i> to characterize cadmium- and copper-induced oxidative stress in the field. Aquatic Toxicology, 2015, 162, 39-53.	1.9	19
396	Sex-Specific Co-expression Networks and Sex-Biased Gene Expression in the Salmonid Brook Charr (<i>Salvelinus fontinalis</i>). G3: Genes, Genomes, Genetics, 2019, 9, 955-968.	0.8	19

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397	Estimating the contribution of Greenland Halibut (<i>Reinhardtius hippoglossoides</i>) stocks to nurseries by means of genotyping-by-sequencing: Sex and time matter. <i>Evolutionary Applications</i> , 2020, 13, 2155-2167.	1.5	19
398	Thermal adaptation rather than demographic history drives genetic structure inferred by copy number variants in a marine fish. <i>Molecular Ecology</i> , 2021, 30, 1624-1641.	2.0	19
399	Usefulness of heterologous microsatellites obtained from brook charr, <i>Salvelinus fontinalis</i> Mitchill, in other <i>Salvelinus</i> species. <i>Molecular Ecology</i> , 1996, 5, 317-319.	2.0	19
400	Environment-driven reprogramming of gamete DNA methylation occurs during maturation and is transmitted intergenerationally in Atlantic Salmon. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	0.8	19
401	Effect of biotic and abiotic factors on the production and degradation of fish environmental DNA: An experimental evaluation. <i>Environmental DNA</i> , 2022, 4, 453-468.	3.1	19
402	Distribution of mitochondrial DNA variation in lake sturgeon (<i>Acipenser fulvescens</i>) from the Moose River basin, Ontario, Canada. <i>Journal of Fish Biology</i> , 1993, 43, 91-101.	0.7	18
403	GENETICALLY BASED PHENOTYPE-ENVIRONMENT ASSOCIATION FOR SWIMMING BEHAVIOR IN LAKE WHITEFISH ECOTYPES (<i>COREGONUS CLUPEAIFORMIS</i> MITCHILL). <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 2322.	1.1	18
404	Coding Gene SNP Mapping Reveals QTL Linked to Growth and Stress Response in Brook Charr (<i>Salvelinus fontinalis</i>). <i>G3: Genes, Genomes, Genetics</i> , 2012, 2, 707-720.	0.8	18
405	Impacts of stocking and its intensity on effective population size in Brook Charr (<i>Salvelinus</i>) Tj ETQq1 1 0.784314 $\frac{r_{BT}}{r_{lock}}$ 10	0.8	18
406	Genome assembly, structural variants, and genetic differentiation between lake whitefish young species pairs (<i>Coregonus</i> sp.) with long and short reads. <i>Molecular Ecology</i> , 2023, 32, 1458-1477.	2.0	18
407	A study of trophic niche partitioning between larval populations of reproductively isolated whitefish (<i>Coregonus</i> sp.) ecotypes. <i>Journal of Fish Biology</i> , 1998, 53, 1231-1242.	0.7	17
408	Comparative transcriptomics of anadromous and resident brook charr <i>Salvelinus fontinalis</i> before their first salt water transition. <i>Environmental Epigenetics</i> , 2012, 58, 158-170.	0.9	17
409	Signatures of natural selection between life cycle stages separated by metamorphosis in European eel. <i>BMC Genomics</i> , 2015, 16, 600.	1.2	17
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412	Genomic data support management of anadromous Arctic Char fisheries in Nunavik by highlighting neutral and putatively adaptive genetic variation. <i>Evolutionary Applications</i> , 2021, 14, 1880-1897.	1.5	17
413	Genetic and morphological support for possible sympatric origin of fish from subterranean habitats. <i>Scientific Reports</i> , 2018, 8, 2909.	1.6	16
414	A chromosome-anchored genome assembly for Lake Trout (<i>Salvelinus namaycush</i>). <i>Molecular Ecology Resources</i> , 2022, 22, 679-694.	2.2	16

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416	Differential timing of gene expression regulation between leptocephali of the two <i>Anguilla</i> eel species in the Sargasso Sea. <i>Ecology and Evolution</i> , 2011, 1, 459-467.	0.8	15
417	Linking genetic and ecological differentiation in an ungulate with a circumpolar distribution. <i>Ecography</i> , 2018, 41, 922-937.	2.1	15
418	Supplementation stocking of Lake Trout (<i>Salvelinus namaycush</i>) in small boreal lakes: Ecotypes influence on growth and condition. <i>PLoS ONE</i> , 2018, 13, e0200599.	1.1	15
419	Marine Conservation and Marine Protected Areas. <i>Population Genomics</i> , 2019, , 423-446.	0.2	15
420	Assessing the effects of genotype-by-environment interaction on epigenetic, transcriptomic, and phenotypic response in a Pacific salmon. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	0.8	15
421	Local heterozygosity-fitness correlations with global positive effects on fitness in threespine stickleback. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1658-68.	1.1	15
422	Cage transplant experiment shows weak transport effect on relative abundance of fish community composition as revealed by eDNA metabarcoding. <i>Ecological Indicators</i> , 2022, 137, 108785.	2.6	15
423	Divergence in physiological factors affecting swimming performance between anadromous and resident populations of brook charr <i>Salvelinus fontinalis</i> . <i>Journal of Fish Biology</i> , 2017, 90, 2170-2193.	0.7	14
424	The role of recombination on genome-wide patterns of local ancestry exemplified by supplemented brook charr populations. <i>Molecular Ecology</i> , 2019, 28, 4755-4769.	2.0	14
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428	Isolation and identification of 21 microsatellite loci in the Copper redhorse (<i>Moxostoma hubbsi</i>). <i>Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 2</i>	1.7	13
429	The Rainbow Smelt, <i>Osmerus mordax</i> , Complex of Lake Utopia: Threatened or Misunderstood?. <i>Environmental Biology of Fishes</i> , 2004, 69, 153-166.	0.4	13
430	Ecology, Evolution, and Conservation of Lake-Migratory Brook Trout: A Perspective from Pristine Populations. <i>Transactions of the American Fisheries Society</i> , 2008, 137, 1192-1202.	0.6	13
431	Reduced sperm performance in backcross hybrids between species pairs of whitefish (<i>Coregonus</i>) <i>Tj ETQq1 1 0.784314 rgBT/Overlock</i>	0.4	13
432	In light of evolution: interdisciplinary challenges in food, health, and the environment. <i>Evolutionary Applications</i> , 2011, 4, 155-158.	1.5	13

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434	Temporally dynamic habitat suitability predicts genetic relatedness among caribou. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140502.	1.2	13
435	Transcriptional response of yellow perch to changes in ambient metal concentrations—A reciprocal field transplantation experiment. Aquatic Toxicology, 2016, 173, 132-142.	1.9	13
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452	A fast, highly sensitive double-nested PCR-based method to screen fish immunobiomes. Molecular Ecology Resources, 2012, 12, 1027-1039.	2.2	11
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459	Isolation and characterization of microsatellite markers in the acorn barnacle <i>Semibalanus balanoides</i> . Molecular Ecology, 1999, 8, 1558-1559.	2.0	10
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482	Genetic structure and within-generation genome scan analysis of fisheries-induced evolution in a Lake Whitefish (<i>Coregonus clupeaformis</i>) population. Conservation Genetics, 2016, 17, 473-483.	0.8	8
483	De novo transcriptome assembly and annotation for the desert rainbowfish (<i>Melanotaenia splendida</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 1 0.4	0.4	8
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492	Regional variation in energy storage strategies in American glass eels from Eastern Canada. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2015, 188, 87-95.	0.8	6
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500	Genome-wide methylation in the panmictic European eel (<i>Anguilla anguilla</i>). <i>Molecular Ecology</i> , 2022, 31, 4286-4306.	2.0	5
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503	Semi-quantitative differences in gene transcription profiles between sexes of a marine snail by a new variant of cDNA-AFLP analysis. <i>Molecular Ecology Resources</i> , 2010, 10, 324-330.	2.2	4
504	EST-based microsatellites for northern pike (<i>Esox lucius</i>) and cross-amplification across all <i>Esox</i> species. <i>Conservation Genetics Resources</i> , 2014, 6, 451-454.	0.4	4

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509	Strong parallel differential gene expression induced by hatchery rearing weakly associated with methylation signals in adult Coho Salmon (<i>O. kisutch</i>). <i>Genome Biology and Evolution</i> , 2022, , .	1.1	4
510	Field evidence for an association between growth and protein polymorphism in the acorn barnacle <i>Semibalanus balanoides</i> . <i>Marine Ecology - Progress Series</i> , 2006, 308, 197-206.	0.9	3
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515	Investigating the Role of Natural Selection on Coding Sequence Evolution in Salmonids Through NGS Data Mining. <i>Molecular Biology and Evolution</i> , 2011, 28, 2721-2721.	3.5	2
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519	Population genomics of the southern Caspian Sea Vobla <i>Rutilus lacustris</i> . <i>Hydrobiologia</i> , 2021, 848, 345-361.	1.0	2
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524	LOCAL HETEROZYGOSITY-FITNESS CORRELATIONS WITH GLOBAL POSITIVE EFFECTS ON FITNESS IN THREESPINE STICKLEBACK. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1658.	1.1	1
525	EDITORIAL: Editorial: 2008 year in review. <i>Evolutionary Applications</i> , 2009, 2, 1-6.	1.5	1
526	RNA-seq Reveals Transcriptomic Shock Involving Transposable Elements Reactivation in Hybrids of Young Lake Whitefish Species. <i>Molecular Biology and Evolution</i> , 2014, 31, 1640-1640.	3.5	1
527	Synergistic Integration of Genomics and Ecoevolutionary Dynamics for Sustainable Fisheries: A Reply to Kuparinen and Uusi-Heikkilä. <i>Trends in Ecology and Evolution</i> , 2018, 33, 308-310.	4.2	1
528	Distribution of the boreal chorus frog (<i>Pseudacris maculata</i>) in an urban environment using environmental DNA. <i>Environmental DNA</i> , 0, , .	3.1	1
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530	EDITORIAL: Editorial: 2009 in review. <i>Evolutionary Applications</i> , 2010, 3, 93-95.	1.5	0
531	Evolutionary Applications Summer 2011 Editorial. <i>Evolutionary Applications</i> , 2011, 4, 617-620.	1.5	0
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536	Fuwen Wei—Recipient of the 2021 Molecular Ecology Prize. <i>Molecular Ecology</i> , 2022, 31, 31-36.	2.0	0