

Louis Bernatchez

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536
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L-index

#	Paper	IF	Citations
536	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> , 2005 , 14, 351-61	5.7	964
535	MHC studies in nonmodel vertebrates: what have we learned about natural selection in 15 years?. <i>Journal of Evolutionary Biology</i> , 2003 , 16, 363-77	2.3	711
534	Comparative phylogeography of Nearctic and Palearctic fishes. <i>Molecular Ecology</i> , 1998 , 7, 431-452	5.7	683
533	Environmental DNA metabarcoding: Transforming how we survey animal and plant communities. <i>Molecular Ecology</i> , 2017 , 26, 5872-5895	5.7	635
532	Adaptive evolutionary conservation: towards a unified concept for defining conservation units. <i>Molecular Ecology</i> , 2001 , 10, 2741-2752	5.7	574
531	Identifying Canadian freshwater fishes through DNA barcodes. <i>PLoS ONE</i> , 2008 , 3, e2490	3.7	395
530	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, 351-79	3.8	378
529	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, 161-73	5.7	349
528	Extent and scale of local adaptation in salmonid fishes: review and meta-analysis. <i>Heredity</i> , 2011 , 106, 404-20	3.6	299
527	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, 1279-85	4.4	276
526	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, 945-56	8.3	240
525	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	2.4	227
524	Oceanic spawning migration of the European eel (<i>Anguilla anguilla</i>). <i>Science</i> , 2009 , 325, 1660	33.3	212
523	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, 1423-38	8.3	208
522	Specific microsatellite loci for brook charr reveal strong population subdivision on a microgeographic scale. <i>Journal of Fish Biology</i> , 1995 , 47, 177-185	1.9	206
521	Adaptive evolutionary conservation: towards a unified concept for defining conservation units. <i>Molecular Ecology</i> , 2001 , 10, 2741-52	5.7	204
520	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, 10602-7	11.5	202

519	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, 573-86	3.8	195
518	Eco-Evolutionary Genomics of Chromosomal Inversions. <i>Trends in Ecology and Evolution</i> , 2018 , 33, 427-440	10.9	190
517	Genetic evidence against panmixia in the European eel. <i>Nature</i> , 2001 , 409, 1037-40	50.4	189
516	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, 1783-800	5.8	188
515	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, 2154-64	3.8	183
514	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	5.7	183
513	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	2.4	174
512	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, 3299-315	5.7	173
511	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, 532-51	5.7	170
510	aflpop: a computer program for simulated and real population allocation, based on AFLP data. <i>Molecular Ecology Notes</i> , 2002 , 2, 380-383		167
509	Landscape genetics and hierarchical genetic structure in Atlantic salmon: the interaction of gene flow and local adaptation. <i>Molecular Ecology</i> , 2008 , 17, 2382-96	5.7	164
508	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> , 2001 , 10, 2525-39	5.7	161
507	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, 615-28	5.7	161
506	Framing the Salmonidae family phylogenetic portrait: a more complete picture from increased taxon sampling. <i>PLoS ONE</i> , 2012 , 7, e46662	3.7	160
505	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, 2483-97	3.8	158
504	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 Suppl 1, 115-31	5.7	150
503	AFLP utility for population assignment studies: analytical investigation and empirical comparison with microsatellites. <i>Molecular Ecology</i> , 2003 , 12, 1979-91	5.7	149
502	Quantifying relative fish abundance with eDNA: a promising tool for fisheries management. <i>Journal of Applied Ecology</i> , 2016 , 53, 1148-1157	5.8	149

501	All roads lead to home: panmixia of European eel in the Sargasso Sea. <i>Molecular Ecology</i> , 2011 , 20, 1333-46	3.6	147
500	Landscape structure and hierarchical genetic diversity in the brook charr, <i>Salvelinus fontinalis</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2001 , 55, 1016-28	3.8	144
499	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		140
498	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	3.8	140
497	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, 161-71	5.7	138
496	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	5.7	135
495	Estimating fish abundance and biomass from eDNA concentrations: variability among capture methods and environmental conditions. <i>Molecular Ecology Resources</i> , 2016 , 16, 1401-1414	8.4	134
494	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	5.7	131
493	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	5.7	129
492	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, 315-30	5.7	127
491	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	8.3	127
490	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, 230-8	8.3	124
489	Parallelism in gene transcription among sympatric lake whitefish (<i>Coregonus clupeaformis</i> Mitchill) ecotypes. <i>Molecular Ecology</i> , 2006 , 15, 1239-49	5.7	124
488	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, 965-85	5.7	124
487	RNA-seq analysis reveals extensive transcriptional plasticity to temperature stress in a freshwater fish species. <i>BMC Genomics</i> , 2013 , 14, 375	4.5	123
486	Harnessing the Power of Genomics to Secure the Future of Seafood. <i>Trends in Ecology and Evolution</i> , 2017 , 32, 665-680	10.9	123
485	Population structure and impact of supportive breeding inferred from mitochondrial and microsatellite DNA analyses in land-locked Atlantic salmon <i>Salmo salar</i> L.. <i>Molecular Ecology</i> , 1997 , 6, 735-750	5.7	123
484	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	3.8	122

483	Relationship between Bioenergetics and Behavior in Anadromous Fish Migrations. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1987 , 44, 399-407	2.4	121
482	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	1.9	121
481	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, 285-97	5.7	120
480	Genetic diversity in caribou linked to past and future climate change. <i>Nature Climate Change</i> , 2014 , 4, 132-137	21.4	119
479	Network analysis highlights complex interactions between pathogen, host and commensal microbiota. <i>PLoS ONE</i> , 2013 , 8, e84772	3.7	119
478	Genetic divergence between cave and surface populations of <i>Astyanax</i> in Mexico (Characidae, Teleostei). <i>Molecular Ecology</i> , 2003 , 12, 699-710	5.7	117
477	The rise and fall of isolation by distance in the anadromous brook charr (<i>Salvelinus fontinalis</i> Mitchell). <i>Genetics</i> , 2003 , 163, 983-96	4	117
476	Genomics in Conservation: Case Studies and Bridging the Gap between Data and Application. <i>Trends in Ecology and Evolution</i> , 2016 , 31, 81-83	10.9	115
475	Evolutionary change in human-altered environments. <i>Molecular Ecology</i> , 2008 , 17, 1-8	5.7	115
474	Unbroken: RADseq remains a powerful tool for understanding the genetics of adaptation in natural populations. <i>Molecular Ecology Resources</i> , 2017 , 17, 362-365	8.4	114
473	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	3.8	112
472	Decline of North Atlantic eels: a fatal synergy?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003 , 270, 681-8	4.4	112
471	Genome-wide single-generation signatures of local selection in the panmictic European eel. <i>Molecular Ecology</i> , 2014 , 23, 2514-28	5.7	109
470	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, 1903-16	5.7	109
469	A genetic evaluation of mating system and determinants of individual reproductive success in Atlantic salmon (<i>Salmo salar</i> L.). <i>Journal of Heredity</i> , 2001 , 92, 137-45	2.4	109
468	DNA barcoding of Cuban freshwater fishes: evidence for cryptic species and taxonomic conflicts. <i>Molecular Ecology Resources</i> , 2010 , 10, 421-30	8.4	108
467	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, 1029-47	3.8	108
466	Comparative estimation of effective population sizes and temporal gene flow in two contrasting population systems. <i>Molecular Ecology</i> , 2007 , 16, 3866-89	5.7	108

465	Rapid parallel evolutionary changes of gene transcription profiles in farmed Atlantic salmon. <i>Molecular Ecology</i> , 2006 , 15, 9-20	5.7	108
464	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	11.5	107
463	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, 4371-87	5.7	107
462	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, 1769-80	5.7	106
461	RAD sequencing reveals within-generation polygenic selection in response to anthropogenic organic and metal contamination in North Atlantic Eels. <i>Molecular Ecology</i> , 2016 , 25, 219-37	5.7	104
460	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	5.7	104
459	The transcriptomics of life-history trade-offs in whitefish species pairs (<i>Coregonus</i> sp.). <i>Molecular Ecology</i> , 2008 , 17, 1850-70	5.7	103
458	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	5.7	102
457	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, 149-65	5.7	102
456	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	3.8	100
455	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, 500-10	3.6	98
454	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	5.7	98
453	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, 1703-17	5.7	97
452	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	3.6	96
451	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	2.4	96
450	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	1.9	95
449	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, 2322-9	3.8	94
448	Morphological divergence and origin of sympatric populations of European whitefish (<i>Coregonus lavaretus</i> L.) in Lake Femund, Norway. <i>Journal of Evolutionary Biology</i> , 2005 , 18, 683-702	2.3	94

447	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, 1979-94	2.3	91
446	Loss of genetic integrity correlates with stocking intensity in brook charr (<i>Salvelinus fontinalis</i>). <i>Molecular Ecology</i> , 2010 , 19, 2025-37	5.7	90
445	Species Flock in the North American Great Lakes: Molecular Ecology of Lake Nipigon Ciscoes (Teleostei: Coregonidae: <i>Coregonus</i>). <i>Evolution; International Journal of Organic Evolution</i> , 1999 , 53, 1857-8	2.8	90
444	The genetic consequences of spatially varying selection in the panmictic American eel (<i>Anguilla rostrata</i>). <i>Genetics</i> , 2012 , 190, 725-36	4	89
443	MHC standing genetic variation and pathogen resistance in wild Atlantic salmon. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009 , 364, 1555-65	5.8	89
442	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	3.8	89
441	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, 354-63	5.8	88
440	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	5.7	88
439	Genetic consequences of interbreeding between farmed and wild Atlantic salmon: insights from the transcriptome. <i>Molecular Ecology</i> , 2008 , 17, 314-24	5.7	88
438	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, 2266-77	2.3	88
437	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, 3469-87	3.8	87
436	Gene coexpression networks reveal key drivers of phenotypic divergence in lake whitefish. <i>Molecular Biology and Evolution</i> , 2013 , 30, 1384-96	8.3	87
435	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, 1902-9	8.3	87
434	PHYLOGEOGRAPHIC STRUCTURE IN MITOCHONDRIAL DNA OF THE LAKE WHITEFISH (<i>COREGONUS CLUPEAFORMIS</i>) AND ITS RELATION TO PLEISTOCENE GLACIATIONS. <i>Evolution; International Journal of Organic Evolution</i> , 1991 , 45, 1016-1035	3.8	87
433	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, 5680-97	5.7	86
432	A road map for molecular ecology. <i>Molecular Ecology</i> , 2013 , 22, 2605-26	5.7	86
431	eDNA metabarcoding as a new surveillance approach for coastal Arctic biodiversity. <i>Ecology and Evolution</i> , 2018 , 8, 7763-7777	2.8	84
430	Parallel evolution of lake whitefish dwarf ecotypes in association with limnological features of their adaptive landscape. <i>Journal of Evolutionary Biology</i> , 2007 , 20, 971-84	2.3	84

429	RNA-seq reveals transcriptomic shock involving transposable elements reactivation in hybrids of young lake whitefish species. <i>Molecular Biology and Evolution</i> , 2014 , 31, 1188-99	8.3	83
428	Population genetics of the American eel (<i>Anguilla rostrata</i>): FST = 0 and North Atlantic Oscillation effects on demographic fluctuations of a panmictic species. <i>Molecular Ecology</i> , 2013 , 22, 1763-76	5.7	83
427	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, 3036-48	5.7	83
426	The transcriptomics of sympatric dwarf and normal lake whitefish (<i>Coregonus clupeaformis</i> spp., Salmonidae) divergence as revealed by next-generation sequencing. <i>Molecular Ecology</i> , 2010 , 19, 5389-403	5.7	83
425	Glacial cycles as an allopatric speciation pump in north-eastern American freshwater fishes. <i>Molecular Ecology</i> , 2013 , 22, 409-22	5.7	82
424	Sequencing, de novo annotation and analysis of the first <i>Anguilla anguilla</i> transcriptome: EeelBase opens new perspectives for the study of the critically endangered European eel. <i>BMC Genomics</i> , 2010 , 11, 635	4.5	81
423	MHC adaptive divergence between closely related and sympatric African cichlids. <i>PLoS ONE</i> , 2007 , 2, e734	3.7	81
422	Gene expression divergence and hybrid misexpression between lake whitefish species pairs (<i>Coregonus</i> spp. Salmonidae). <i>Molecular Biology and Evolution</i> , 2009 , 26, 925-36	8.3	80
421	Genetic and morphological variation between two forms of lacustrine brook charr. <i>Journal of Fish Biology</i> , 1999 , 54, 955-972	1.9	80
420	Going beyond SNPs: The role of structural genomic variants in adaptive evolution and species diversification. <i>Molecular Ecology</i> , 2019 , 28, 1203-1209	5.7	79
419	SNP signatures of selection on standing genetic variation and their association with adaptive phenotypes along gradients of ecological speciation in lake whitefish species pairs (<i>Coregonus</i> spp.). <i>Molecular Ecology</i> , 2011 , 20, 545-59	5.7	79
418	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, 1002-11	8.4	79
417	The seabird paradox: dispersal, genetic structure and population dynamics in a highly mobile, but philopatric albatross species. <i>Molecular Ecology</i> , 2008 , 17, 1658-73	5.7	78
416	The landscape genetics of yellow perch (<i>Perca flavescens</i>) in a large fluvial ecosystem. <i>Molecular Ecology</i> , 2008 , 17, 1702-17	5.7	78
415	Inter individual variations of the fish skin microbiota: host genetics basis of mutualism?. <i>PLoS ONE</i> , 2014 , 9, e102649	3.7	76
414	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	6.2	75
413	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	5.7	75
412	Clinal variation at microsatellite loci reveals historical secondary intergradation between glacial races of <i>Coregonus artedii</i> (Teleostei: Coregoninae). <i>Evolution; International Journal of Organic Evolution</i> , 2001 , 55, 2274-86	3.8	73

411	Phylogeographic Structure in Mitochondrial DNA of the Lake Whitefish (<i>Coregonus clupeaformis</i>) and Its Relation to Pleistocene Glaciations. <i>Evolution; International Journal of Organic Evolution</i> , 1991 , 45, 1016	3.8	73
410	Predicting Responses to Contemporary Environmental Change Using Evolutionary Response Architectures. <i>American Naturalist</i> , 2017 , 189, 463-473	3.7	72
409	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	3.9	72
408	Geographic variation of multiple paternity in the American lobster, <i>Homarus americanus</i> . <i>Molecular Ecology</i> , 2005 , 14, 1517-25	5.7	72
407	Phylogeographic congruence between mtDNA and rDNA ITS markers in brown trout. <i>Molecular Biology and Evolution</i> , 2002 , 19, 2161-75	8.3	72
406	Dynamics of introgressive hybridization assessed by SNP population genomics of coding genes in stocked brook charr (<i>Salvelinus fontinalis</i>). <i>Molecular Ecology</i> , 2012 , 21, 2877-95	5.7	71
405	Reduced fitness of Atlantic salmon released in the wild after one generation of captive breeding. <i>Evolutionary Applications</i> , 2013 , 6, 472-85	4.8	71
404	Alternative male life-history tactics as potential vehicles for speeding introgression of farm salmon traits into wild populations. <i>Ecology Letters</i> , 2003 , 6, 541-549	10	71
403	RAD sequencing highlights polygenic discrimination of habitat ecotypes in the panmictic American eel. <i>Current Biology</i> , 2015 , 25, 1666-71	6.3	70
402	The impact of fishing-induced mortality on the evolution of alternative life-history tactics in brook charr. <i>Evolutionary Applications</i> , 2008 , 1, 409-23	4.8	70
401	Integrative use of spatial, genetic, and demographic analyses for investigating genetic connectivity between migratory, montane, and sedentary caribou herds. <i>Molecular Ecology</i> , 2007 , 16, 4223-40	5.7	70
400	Influence of Temperature and Current Speed on the Swimming Capacity of Lake Whitefish (<i>Coregonus clupeaformis</i>) and Cisco (<i>C. artedii</i>). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1985 , 42, 1522-1529	2.4	70
399	Mitogenome sequencing reveals shallow evolutionary histories and recent divergence time between morphologically and ecologically distinct European whitefish (<i>Coregonus</i> spp.). <i>Molecular Ecology</i> , 2012 , 21, 2727-42	5.7	67
398	Individual assignment test reveals differential restriction to dispersal between two salmonids despite no increase of genetic differences with distance. <i>Molecular Ecology</i> , 2004 , 13, 1299-312	5.7	67
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118	Combining population genomics and forward simulations to investigate stocking impacts: A case study of Muskellunge (<i>Esox americanus</i>) from the St. Lawrence River basin. <i>Evolutionary Applications</i> , 2019 , 12, 902-922	4.8	10
117	The role of ecotype-environment interactions in intraspecific trophic niche partitioning subsequent to stocking. <i>Ecological Applications</i> , 2019 , 29, e01857	4.9	9
116	Chemosensory mediated behaviors and gene transcription profiles in wild yellow perch (<i>Perca flavescens</i>) from metal contaminated lakes. <i>Ecotoxicology and Environmental Safety</i> , 2014 , 106, 239-45	7	9
115	Editorial. <i>Evolutionary Applications</i> , 2008 , 1, 1-2	4.8	9
114	Disturbance of social hierarchy by an invasive species: a gene transcription study. <i>PLoS ONE</i> , 2008 , 3, e2408	3.7	9
113	Resolving the genetic paradox of invasions: Preadapted genomes and postintroduction hybridization of bigheaded carps in the Mississippi River Basin. <i>Evolutionary Applications</i> , 2020 , 13, 263-277	4.8	9
112	Gene transcription profiling in wild and laboratory-exposed eels: Effect of captivity and in situ chronic exposure to pollution. <i>Science of the Total Environment</i> , 2016 , 571, 92-102	10.2	9
111	Domestication and Temperature Modulate Gene Expression Signatures and Growth in the Australasian Snapper. <i>G3: Genes, Genomes, Genetics</i> , 2019 , 9, 105-116	3.2	9
110	Do differences in the activities of carbohydrate metabolism enzymes between Lake Whitefish ecotypes match predictions from transcriptomic studies?. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2018 , 224, 138-149	2.3	9
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108	The future of biodiversity monitoring and conservation utilizing environmental DNA. <i>Environmental DNA</i> , 2021 , 3, 3-7	7.6	9
107	Detecting the exposure to Cd and PCBs by means of a non-invasive transcriptomic approach in laboratory and wild contaminated European eels (<i>Anguilla anguilla</i>). <i>Environmental Science and Pollution Research</i> , 2016 , 23, 5431-41	5.1	8
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105	Phenotype-environment association of the oxygen transport system in trimorphic European whitefish (<i>Coregonus lavaretus</i>) populations. <i>Evolution; International Journal of Organic Evolution</i> , 2014 , 68, 2197-210	3.8	8
104	Convergence in organ size but not energy metabolism enzyme activities among wild Lake Whitefish (<i>Coregonus clupeaformis</i>) species pairs. <i>Molecular Ecology</i> , 2017 , 26, 225-244	5.7	8
103	Linking transcriptomic and genomic variation to growth in brook charr hybrids (<i>Salvelinus fontinalis</i> , Mitchill). <i>Heredity</i> , 2013 , 110, 492-500	3.6	8
102	Isolation and characterization of microsatellite markers in the acorn barnacle <i>Semibalanus balanoides</i> . <i>Molecular Ecology</i> , 1999 , 8, 1558-1559	5.7	8
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100	Incorporating putatively neutral and adaptive genomic data into marine conservation planning. <i>Conservation Biology</i> , 2021 , 35, 909-920	6	8
99	Sex-Specific Co-expression Networks and Sex-Biased Gene Expression in the Salmonid Brook Charr. <i>G3: Genes, Genomes, Genetics</i> , 2019 , 9, 955-968	3.2	7
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90	Mitochondrial DNA and isozyme electrophoretic analyses of the endangered Acadian whitefish, <i>Coregonus huntsmani</i> Scott, 1987. <i>Canadian Journal of Zoology</i> , 1991 , 69, 311-316	1.5	7
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81	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	4.8	6
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41	A study of fluctuating asymmetry in hybrids of dwarf and normal lake whitefish ecotypes (<i>Coregonus clupeaformis</i>) from different glacial races		2
40	Salmonid chromosome evolution as revealed by a novel method for comparing RADseq linkage maps		2
39	Modeling the Multiple Facets of Speciation-with-Gene-Flow Towards Inferring the Divergence History of Lake Whitefish Species Pairs (<i>Coregonus Clupeaformis</i>)		2
38	Sex matters in Massive Parallel Sequencing: Evidence for biases in genetic parameter estimation and investigation of sex determination systems		2
37	Genomics and telemetry suggest a role for migration harshness in determining overwintering habitat choice, but not gene flow, in anadromous Arctic Char		2
36	Contrasted gene decay in subterranean vertebrates: insights from cavefishes and fossorial mammals		2
35	Polygenic selection drives the evolution of convergent transcriptomic landscapes across continents within a Nearctic sister-species complex		2
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33	Latitudinal variation in climate-associated genes imperils range edge populations. <i>Molecular Ecology</i> , 2020 , 29, 4337-4349	5.7	2
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22	Sex-specific co-expression networks and sex-biased gene expression in the salmonid Brook Charr <i>Salvelinus fontinalis</i>		1
21	Balancing selection via life-history trade-offs maintains an inversion polymorphism in a seaweed fly		1
20	Demographic history shaped geographical patterns of deleterious mutation load in a broadly distributed Pacific Salmon		1
19	The rise and fall of the ancient northern pike master sex determining gene		1
18	Physiological, endocrine, and genetic bases of anadromy in the brook charr, <i>Salvelinus fontinalis</i> , of the Laval River (Québec, Canada). <i>Developments in Environmental Biology of Fishes</i> , 2002 , 229-242		1
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16	Environment-driven reprogramming of gamete DNA methylation occurs during maturation and is transmitted intergenerationally in salmon		1

15	Adaptation of plasticity to predicted climates in Australian rainbowfishes (<i>Melanotaenia</i>) across climatically defined bioregions		1
14	Mapping of Adaptive Traits Enabled by a High-Density Linkage Map for Lake Trout. <i>G3: Genes, Genomes, Genetics</i> , 2020 , 10, 1929-1947	3.2	1
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10	Genetic Diversity 2021 , 119-165		1
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8	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	5.8	1
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