

Louis Bernatchez

List of Publications by Year in descending order

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536
papers

37,301
citations

2322

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6836

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585
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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. | 3.9 | 1,298 |
| 2 | Environmental <scp>DNA</scp> metabarcoding: Transforming how we survey animal and plant communities. <i>Molecular Ecology</i> , 2017, 26, 5872-5895. | 3.9 | 1,210 |
| 3 | MHC studies in nonmodel vertebrates: what have we learned about natural selection in 15â€¢years?. <i>Journal of Evolutionary Biology</i> , 2003, 16, 363-377. | 1.7 | 786 |
| 4 | Comparative phylogeography of Nearctic and Palearctic fishes. <i>Molecular Ecology</i> , 1998, 7, 431-452. | 3.9 | 751 |
| 5 | Adaptive evolutionary conservation: towards a unified concept for defining conservation units. <i>Molecular Ecology</i> , 2001, 10, 2741-2752. | 3.9 | 717 |
| 6 | Identifying Canadian Freshwater Fishes through DNA Barcodes. <i>PLoS ONE</i> , 2008, 3, e2490. | 2.5 | 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. | 2.3 | 420 |
| 8 | Eco-Evolutionary Genomics of Chromosomal Inversions. <i>Trends in Ecology and Evolution</i> , 2018, 33, 427-440. | 8.7 | 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. | 3.9 | 392 |
| 10 | Extent and scale of local adaptation in salmonid fishes: review and meta-analysis. <i>Heredity</i> , 2011, 106, 404-420. | 2.6 | 369 |
| 11 | â€“Good genes as heterozygosityâ€™: 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. | 2.6 | 315 |
| 12 | Oceanic Spawning Migration of the European Eel (<i>Anguilla anguilla</i>). <i>Science</i> , 2009, 325, 1660-1660. | 12.6 | 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. | 1.4 | 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. | 8.9 | 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. | 7.1 | 241 |
| 16 | <scp>RAD</scp> genotyping reveals fineâ€“scale genetic structuring and provides powerful population assignment in a widely distributed marine species, the <scp>A</scp>merican lobster (<i><scp>H</scp>omarus americanus</i>). <i>Molecular Ecology</i> , 2015, 24, 3299-3315. | 3.9 | 239 |
| 17 | Adaptive evolutionary conservation: towards a unified concept for defining conservation units. <i>Molecular Ecology</i> , 2001, 10, 2741-52. | 3.9 | 236 |
| 18 | Estimating fish abundance and biomass from <scp>eDNA</scp> concentrations: variability among capture methods and environmental conditions. <i>Molecular Ecology Resources</i> , 2016, 16, 1401-1414. | 4.8 | 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. | 8.9 | 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. | 2.3 | 225 |
| 21 | Quantifying relative fish abundance with <scp>eDNA</scp>: a promising tool for fisheries management. <i>Journal of Applied Ecology</i> , 2016, 53, 1148-1157. | 4.0 | 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. | 4.0 | 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. | 1.6 | 217 |
| 24 | Genetic evidence against panmixia in the European eel. <i>Nature</i> , 2001, 409, 1037-1040. | 27.8 | 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. | 3.9 | 215 |
| 26 | SNP&Ecaronarray reveals genomeÊwide patterns of geographical and potential adaptive divergence across the natural range of <scp>A</scp>tlantic salmon (<i><scp>S</scp>almo salar</i>). <i>Molecular Ecology</i> , 2013, 22, 532-551. | 3.9 | 212 |
| 27 | CLINAL VARIATION IN MHC DIVERSITY WITH TEMPERATURE: EVIDENCE FOR THE ROLE OF HOST&PILDA;PATHOGEN INTERACTION ON LOCAL ADAPTATION IN ATLANTIC SALMON. <i>Evolution; International Journal of Organic Evolution</i> , 2007, 61, 2154-2164. | 2.3 | 207 |
| 28 | Network Analysis Highlights Complex Interactions between Pathogen, Host and Commensal Microbiota. <i>PLoS ONE</i> , 2013, 8, e84772. | 2.5 | 205 |
| 29 | Harnessing the Power of Genomics to Secure the Future of Seafood. <i>Trends in Ecology and Evolution</i> , 2017, 32, 665-680. | 8.7 | 202 |
| 30 | Framing the Salmonidae Family Phylogenetic Portrait: A More Complete Picture from Increased Taxon Sampling. <i>PLoS ONE</i> , 2012, 7, e46662. | 2.5 | 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. | 1.4 | 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. | 3.9 | 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. | 2.3 | 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. | 1.6 | 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. | 3.9 | 178 |
| 36 | All roads lead to home: panmixia of European eel in the Sargasso Sea. <i>Molecular Ecology</i> , 2011, 20, 1333-1346. | 3.9 | 176 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | aflpop: a computer program for simulated and real population allocation, based on AFLP data. Molecular Ecology Notes, 2002, 2, 380-383. | 1.7 | 174 |
| 38 | Genomics in Conservation: Case Studies and Bridging the Gap between Data and Application. Trends in Ecology and Evolution, 2016, 31, 81-83. | 8.7 | 173 |
| 39 | Ecological determinants and temporal stability of the within-river population structure in Atlantic salmon (<i>Salmo salar</i> L.) *. Molecular Ecology, 2000, 9, 615-628. | 3.9 | 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>). Molecular Ecology, 2002, 10, 2525-2539. | 3.9 | 170 |
| 41 | Parallel epigenetic modifications induced by hatchery rearing in a Pacific salmon. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12964-12969. | 7.1 | 170 |
| 42 | AFLP utility for population assignment studies: analytical investigation and empirical comparison with microsatellites. Molecular Ecology, 2003, 12, 1979-1991. | 3.9 | 163 |
| 43 | Mining transcriptome sequences towards identifying adaptive single nucleotide polymorphisms in lake whitefish species pairs (<i>Coregonus</i> spp. Salmonidae). Molecular Ecology, 2010, 19, 115-131. | 3.9 | 159 |
| 44 | CORRELATED TROPHIC SPECIALIZATION AND GENETIC DIVERGENCE IN SYMPATRIC LAKE WHITEFISH ECOTYPES (<i>COREGONUS CLUPEAFORMIS</i>): SUPPORT FOR THE ECOLOGICAL SPECIATION HYPOTHESIS. Evolution; International Journal of Organic Evolution, 1999, 53, 1491-1505. | 2.3 | 156 |
| 45 | LANDSCAPE STRUCTURE AND HIERARCHICAL GENETIC DIVERSITY IN THE BROOK CHARR, <i>SALVELINUS FONTINALIS</i> . Evolution; International Journal of Organic Evolution, 2001, 55, 1016. | 2.3 | 156 |
| 46 | Unbroken: RADseq remains a powerful tool for understanding the genetics of adaptation in natural populations. Molecular Ecology Resources, 2017, 17, 362-365. | 4.8 | 156 |
| 47 | Genetic diversity in caribou linked to past and future climate change. Nature Climate Change, 2014, 4, 132-137. | 18.8 | 154 |
| 48 | <sc>eDNA</sc> metabarcoding as a new surveillance approach for coastal Arctic biodiversity. Ecology and Evolution, 2018, 8, 7763-7777. | 1.9 | 154 |
| 49 | RNA-seq analysis reveals extensive transcriptional plasticity to temperature stress in a freshwater fish species. BMC Genomics, 2013, 14, 375. | 2.8 | 152 |
| 50 | Seascape genomics provides evidence for thermal adaptation and current-mediated population structure in American lobster (<i>Homarus americanus</i>). Molecular Ecology, 2016, 25, 5073-5092. | 3.9 | 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>). Molecular Ecology, 1998, 7, 127-132. | 3.9 | 147 |
| 52 | papa (package for the analysis of parental allocation): a computer program for simulated and real parental allocation. Molecular Ecology Notes, 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. Molecular Ecology, 1994, 3, 161-171. | 3.9 | 146 |
| 54 | Consequences of unequal population size, asymmetric gene flow and sex-biased dispersal on population structure in brook charr (<i>Salvelinus fontinalis</i>). Molecular Ecology, 2004, 13, 67-80. | 3.9 | 145 |

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|----|--|-----|-----------|
| 55 | Parallelism in gene transcription among sympatric lake whitefish (<i>Coregonus clupeaformis</i> Mitchell) ecotypes. <i>Molecular Ecology</i> , 2006, 15, 1239-1249. | 3.9 | 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. | 8.9 | 143 |
| 57 | Relationship between Bioenergetics and Behavior in Anadromous Fish Migrations. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1987, 44, 399-407. | 1.4 | 141 |
| 58 | DNA barcoding of Cuban freshwater fishes: evidence for cryptic species and taxonomic conflicts. <i>Molecular Ecology Resources</i> , 2010, 10, 421-430. | 4.8 | 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. | 3.9 | 138 |
| 60 | Predicting Responses to Contemporary Environmental Change Using Evolutionary Response Architectures. <i>American Naturalist</i> , 2017, 189, 463-473. | 2.1 | 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. | 2.3 | 135 |
| 62 | Genome-wide single-generation signatures of local selection in the panmictic European eel. <i>Molecular Ecology</i> , 2014, 23, 2514-2528. | 3.9 | 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. | 8.9 | 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. | 4.8 | 134 |
| 65 | Divergent selection maintains adaptive differentiation despite high gene flow between sympatric rainbow smelt ecotypes (<i>Osmerus mordax</i> Mitchell). <i>Molecular Ecology</i> , 2003, 12, 315-330. | 3.9 | 133 |
| 66 | Genetic divergence between cave and surface populations of <i>Astyanax</i> in Mexico (Characidae). <i>Evolution</i> , 2010, 64, 1029-1047. | 3.9 | 132 |
| 67 | The Rise and Fall of Isolation by Distance in the Anadromous Brook Charr (<i>Salvelinus fontinalis</i>). <i>Evolution</i> , 2011, 65, 1029-1047. | 2.9 | 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. | 3.9 | 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. | 3.9 | 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. | 3.9 | 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. | 3.9 | 130 |
| 72 | Evolutionary change in human-altered environments. <i>Molecular Ecology</i> , 2008, 17, 1-8. | 3.9 | 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. | 2.3 | 128 |
| 74 | <scp>RAD</scp> sequencing reveals withinâ€ generation polygenic selection in response to anthropogenic organic and metal contamination in North Atlantic Eels. <i>Molecular Ecology</i> , 2016, 25, 219-237. | 3.9 | 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. | 1.6 | 126 |
| 76 | Decline of North Atlantic eels: a fatal synergy?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 681-688. | 2.6 | 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. | 3.9 | 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. | 3.9 | 121 |
| 80 | Rapid parallel evolutionary changes of gene transcription profiles in farmed Atlantic salmon. <i>Molecular Ecology</i> , 2005, 15, 9-20. | 3.9 | 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. | 2.5 | 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. | 2.6 | 119 |
| 83 | Inter Individual Variations of the Fish Skin Microbiota: Host Genetics Basis of Mutualism?. <i>PLoS ONE</i> , 2014, 9, e102649. | 2.5 | 119 |
| 84 | Gene Coexpression Networks Reveal Key Drivers of Phenotypic Divergence in Lake Whitefish. <i>Molecular Biology and Evolution</i> , 2013, 30, 1384-1396. | 8.9 | 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. | 3.9 | 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. | 2.3 | 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. | 3.9 | 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. | 3.9 | 113 |
| 89 | Demographic and genetic approaches to study dispersal in wild animal populations: A methodological review. <i>Molecular Ecology</i> , 2018, 27, 3976-4010. | 3.9 | 113 |
| 90 | Effects of sampling effort on biodiversity patterns estimated from environmental DNA metabarcoding surveys. <i>Scientific Reports</i> , 2018, 8, 8843. | 3.3 | 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. | 8.9 | 112 |
| 92 | PHYLOGEOGRAPHIC STRUCTURE IN MITOCHONDRIAL DNA OF THE LAKE WHITEFISH (<i>COREGONUS</i>) Tj ETQq0 0 0 rgBT /Overlock 10 of <i>Organic Evolution</i> , 1991, 45, 1016-1035. | 2.3 | 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. | 3.9 | 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. | 2.6 | 109 |
| 95 | Morphological divergence and origin of sympatric populations of European whitefish (<i>Coregonus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 fishes. <i>Evolution</i> , 2006, 60, 109-120. | 1.7 | 109 |
| 96 | The transcriptomics of lifeâ€œhistory tradeâ€œoffs in whitefish species pairs (<i>Coregonus</i> sp.). <i>Molecular Ecology</i> , 2008, 17, 1850-1870. | 3.9 | 109 |
| 97 | The Genetic Consequences of Spatially Varying Selection in the Panmictic American Eel (<i>Anguilla</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 eels. <i>Evolution</i> , 2006, 60, 109-120. | 2.9 | 109 |
| 98 | Glacial cycles as an allopatric speciation pump in northâ€œeastern <scp>A</scp>merican freshwater fishes. <i>Molecular Ecology</i> , 2013, 22, 409-422. | 3.9 | 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. | 1.4 | 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. | 1.7 | 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. | 3.9 | 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. | 2.3 | 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. | 2.3 | 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. | 4.0 | 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. | 2.3 | 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. | 3.9 | 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. | 3.9 | 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. | 8.9 | 101 |

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|-----|--|-----|-----------|
| 109 | Population genetics of the <scp>A</scp>merican eel (<i><scp>A</scp>nguilla rostrata</i>): <i><scp>F</scp></i>_{ST}=Â0 and <scp>N</scp>orth <scp>A</scp>tantic <scp>O</scp>scillation effects on demographic fluctuations of a panmictic species. Molecular Ecology, 2013, 22, 1763-1776. | 3.9 | 101 |
| 110 | A road map for molecular ecology. Molecular Ecology, 2013, 22, 2605-2626. | 3.9 | 100 |
| 111 | Genome-wide patterns of divergence during speciation: the lake whitefish case study. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 354-363. | 4.0 | 99 |
| 112 | Reduced fitness of <scp>A</scp>tantic salmon released in the wild after one generation of captive breeding. Evolutionary Applications, 2013, 6, 472-485. | 3.1 | 99 |
| 113 | Functional Annotation of All Salmonid Genomes (FAASG): an international initiative supporting future salmonid research, conservation and aquaculture. BMC Genomics, 2017, 18, 484. | 2.8 | 99 |
| 114 | Parallel evolution of lake whitefish dwarf ecotypes in association with limnological features of their adaptive landscape. Journal of Evolutionary Biology, 2007, 20, 971-984. | 1.7 | 97 |
| 115 | Heritability of lifeâ€history tactics and genetic correlation with body size in a natural population of brook charr (<i>Salvelinus fontinalis</i>). Journal of Evolutionary Biology, 2007, 20, 2266-2277. | 1.7 | 97 |
| 116 | Aquatic Landscape Genomics and Environmental Effects on Genetic Variation. Trends in Ecology and Evolution, 2019, 34, 641-654. | 8.7 | 97 |
| 117 | Do assemblages of Coregonus (Teleostei: Salmoniformes) in the Central Alpine region of Europe represent species flocks?. Molecular Ecology, 1999, 8, 589-603. | 3.9 | 96 |
| 118 | Species Flock in the North American Great Lakes: Molecular Ecology of Lake Nipigon Ciscoes (Teleostei:) Tj ETQq0 0.0 rgBT /Overlock 10 | 2.3 | 96 |
| 119 | A Comparative Mitogenomic Analysis of the Potential Adaptive Value of Arctic Charr mtDNA Introgression in Brook Charr Populations (Salvelinus fontinalis Mitchell). Molecular Biology and Evolution, 2002, 19, 1902-1909. | 8.9 | 96 |
| 120 | Genetic consequences of interbreeding between farmed and wild Atlantic salmon: insights from the transcriptome. Molecular Ecology, 2008, 17, 314-324. | 3.9 | 96 |
| 121 | Mapping phenotypic, expression and transmission ratio distortion <scp>QTL</scp> using <scp>RAD</scp> markers in the Lake Whitefish <i>(Coregonus clupeaformis)</i>. Molecular Ecology, 2013, 22, 3036-3048. | 3.9 | 96 |
| 122 | DIFFERENTIAL REPRODUCTIVE SUCCESS AND HERITABILITY OF ALTERNATIVE REPRODUCTIVE TACTICS IN WILD ATLANTIC SALMON (SALMO SALAR L). Evolution; International Journal of Organic Evolution, 2003, 57, 1133. | 2.3 | 95 |
| 123 | Transatlantic secondary contact in Atlantic Salmon, comparing microsatellites, a single nucleotide polymorphism array and restrictionâ€site associated <scp>DNA</scp> sequencing for the resolution of complex spatial structure. Molecular Ecology, 2015, 24, 5130-5144. | 3.9 | 94 |
| 124 | Genetic and morphological variation between two forms of lacustrine brook charr. Journal of Fish Biology, 1999, 54, 955-972. | 1.6 | 93 |
| 125 | The transcriptomics of sympatric dwarf and normal lake whitefish (Coregonus clupeaformis spp.), Tj ETQq1 1 0.784314 rgBT /Overlock 1 5389-5403. | 3.9 | 93 |
| 126 | Integrating Traditional and Evolutionary Knowledge in Biodiversity Conservation: a Population Level Case Study. Ecology and Society, 2006, 11, . | 2.3 | 92 |

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| 127 | Asymmetric oceanographic processes mediate connectivity and population genetic structure, as revealed by <sc>RAD</sc>seq, in a highly dispersive marine invertebrate (<i>Parastichopus</i> Tj ETQq1 1 0.784314.ogBT /Overlock 107 | 4.0 | 107 |
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| 523 | A study of fluctuating asymmetry in hybrids of dwarf and normal lake whitefish ecotypes (<i>Coregonus</i>) Tj ETQq1 1 0,784314 rgBT /Overl | 2.6 | 2 |
| 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. | 2.3 | 1 |
| 525 | EDITORIAL: Editorial: 2008 year in review. <i>Evolutionary Applications</i> , 2009, 2, 1-6. | 3.1 | 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. | 8.9 | 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. | 8.7 | 1 |
| 528 | Distribution of the boreal chorus frog (<i>Pseudacris maculata</i>) in an urban environment using environmental DNA. <i>Environmental DNA</i> , 0, , . | 5.8 | 1 |
| 529 | The analysis of the relationship between Lorestan cave barbs (<i>Garra typhlops</i> and <i>Garra lorestanensis</i>) and <i>Garra gymnothorax</i> populations in Dez and Karkheh River drainages. <i>Yaftah</i> , 2020, 7, 1-8. | 0.2 | 1 |
| 530 | EDITORIAL: Editorial: 2009 in review. <i>Evolutionary Applications</i> , 2010, 3, 93-95. | 3.1 | 0 |
| 531 | Evolutionary Applications Summer 2011 Editorial. <i>Evolutionary Applications</i> , 2011, 4, 617-620. | 3.1 | 0 |
| 532 | <i>Evolutionary Applications</i> open to all. <i>Evolutionary Applications</i> , 2012, 5, 1-1. | 3.1 | 0 |
| 533 | New feature: themed sections. <i>Evolutionary Applications</i> , 2013, 6, 411-411. | 3.1 | 0 |
| 534 | Riverâ€”Specific Gene Expression Patterns Associated with Habitat Selection for Key Hormoneâ€”Coding Genes in Glass Eelâ€”Stage American Eels. <i>Transactions of the American Fisheries Society</i> , 2018, 147, 855-868. | 1.4 | 0 |
| 535 | The rainbow smelt, <i>Osmerus mordax</i> , complex of Lake Utopia: threatened or misunderstood?. <i>Developments in Environmental Biology of Fishes</i> , 2004, , 153-166. | 0.2 | 0 |
| 536 | Fuwen Weiâ€”Recipient of the 2021 Molecular Ecology Prize. <i>Molecular Ecology</i> , 2022, 31, 31-36. | 3.9 | 0 |