

# Andrew R Whiteley

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

5,108  
citations

172457

29  
h-index

114465

63  
g-index

64  
all docs

64  
docs citations

64  
times ranked

6492  
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating landscape resistance to movement: a review. <i>Landscape Ecology</i> , 2012, 27, 777-797.	4.2	731
2	Genetic rescue to the rescue. <i>Trends in Ecology and Evolution</i> , 2015, 30, 42-49.	8.7	591
3	Robust Detection of Rare Species Using Environmental DNA: The Importance of Primer Specificity. <i>PLoS ONE</i> , 2013, 8, e59520.	2.5	405
4	Distance, flow and PCR inhibition: eDNA dynamics in two headwater streams. <i>Molecular Ecology Resources</i> , 2015, 15, 216-227.	4.8	391
5	Mammalian Circadian Autoregulatory Loop. <i>Neuron</i> , 1998, 21, 1101-1113.	8.1	333
6	Understanding environmental DNA detection probabilities: A case study using a stream-dwelling char <i>Salvelinus fontinalis</i> . <i>Biological Conservation</i> , 2016, 194, 209-216.	4.1	307
7	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
8	Genome-Wide Epistatic Interaction Analysis Reveals Complex Genetic Determinants of Circadian Behavior in Mice. <i>Genome Research</i> , 2001, 11, 959-980.	5.5	211
9	The Exciting Potential and Remaining Uncertainties of Genetic Rescue. <i>Trends in Ecology and Evolution</i> , 2019, 34, 1070-1079.	8.7	151
10	The evolutionary legacy of size-selective harvesting extends from genes to populations. <i>Evolutionary Applications</i> , 2015, 8, 597-620.	3.1	142
11	The Arctic melting pot. <i>Nature</i> , 2010, 468, 891-891.	27.8	101
12	Fragmentation and patch size shape genetic structure of brook trout populations. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2013, 70, 678-688.	1.4	82
13	Robust estimates of environmental effects on population vital rates: an integrated capture-recapture model of seasonal brook trout growth, survival and movement in a stream network. <i>Journal of Animal Ecology</i> , 2015, 84, 337-352.	2.8	82
14	Changes in seasonal climate outpace compensatory density-dependence in eastern brook trout. <i>Global Change Biology</i> , 2016, 22, 577-593.	9.5	81
15	Genetic variation and effective population size in isolated populations of coastal cutthroat trout. <i>Conservation Genetics</i> , 2010, 11, 1929-1943.	1.5	79
16	Population genomics of wild and laboratory zebrafish ( <i>Danio rerio</i> ). <i>Molecular Ecology</i> , 2011, 20, 4259-4276.	3.9	79
17	Ecological and life history characteristics predict population genetic divergence of two salmonids in the same landscape. <i>Molecular Ecology</i> , 2004, 13, 3675-3688.	3.9	76
18	Legacy introductions and climatic variation explain spatiotemporal patterns of invasive hybridization in a native trout. <i>Global Change Biology</i> , 2017, 23, 4663-4674.	9.5	71

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19	The Phenomics and Expression Quantitative Trait Locus Mapping of Brain Transcriptomes Regulating Adaptive Divergence in Lake Whitefish Species Pairs ( <i>Coregonus</i> sp.). <i>Genetics</i> , 2008, 180, 147-164.	2.9	63
20	Usl1, a suppressor of the circadian Clock mutant, reveals the nature of the DNA-binding of the CLOCK:BMAL1 complex in mice. <i>ELife</i> , 2013, 2, e00426.	6.0	63
21	A hierarchical model of daily stream temperature using air-water temperature synchronization, autocorrelation, and time lags. <i>PeerJ</i> , 2016, 4, e1727.	2.0	59
22	Linking movement and reproductive history of brook trout to assess habitat connectivity in a heterogeneous stream network. <i>Freshwater Biology</i> , 2014, 59, 142-154.	2.4	58
23	Can common species provide valuable information for conservation?. <i>Molecular Ecology</i> , 2006, 15, 2767-2786.	3.9	46
24	Sampling strategies for estimating brook trout effective population size. <i>Conservation Genetics</i> , 2012, 13, 625-637.	1.5	45
25	Experimental test of genetic rescue in isolated populations of brook trout. <i>Molecular Ecology</i> , 2017, 26, 4418-4433.	3.9	45
26	The <i>Xenopus</i> Clock gene is constitutively expressed in retinal photoreceptors. <i>Molecular Brain Research</i> , 2000, 75, 303-308.	2.3	43
27	BACKGROUND MATCHING AND COLOR-CHANGE PLASTICITY IN COLONIZING FRESHWATER SCULPIN POPULATIONS FOLLOWING RAPID DEGLACIATION. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 1519-1529.	2.3	41
28	Effective number of breeders provides a link between interannual variation in stream flow and individual reproductive contribution in a stream salmonid. <i>Molecular Ecology</i> , 2015, 24, 3585-3602.	3.9	41
29	Fine-scale Genetic Structure of Bull Trout at the Southern Limit of Their Distribution. <i>Transactions of the American Fisheries Society</i> , 2006, 135, 1238-1253.	1.4	36
30	Using simulation modeling to inform management of invasive species: A case study of eastern brook trout suppression and eradication. <i>Biological Conservation</i> , 2018, 221, 10-22.	4.1	32
31	Pronounced differences in genetic structure despite overall ecological similarity for two <i>Ambystoma</i> salamanders in the same landscape. <i>Conservation Genetics</i> , 2014, 15, 573-591.	1.5	30
32	The Laboratory Domestication of Zebrafish: From Diverse Populations to Inbred Substrains. <i>Molecular Biology and Evolution</i> , 2020, 37, 1056-1069.	8.9	30
33	Climate change and expanding invasive species drive widespread declines of native trout in the northern Rocky Mountains, USA. <i>Science Advances</i> , 2021, 7, eabj5471.	10.3	29
34	Trophic polymorphism in a riverine fish: morphological, dietary, and genetic analysis of mountain whitefish. <i>Biological Journal of the Linnean Society</i> , 0, 92, 253-267.	1.6	28
35	The ecological causes and consequences of hard and soft selection. <i>Ecology Letters</i> , 2021, 24, 1505-1521.	6.4	24
36	Evaluating the outcomes of genetic rescue attempts. <i>Conservation Biology</i> , 2021, 35, 666-677.	4.7	23

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37	Temporal Patterns of Migration and Spawning of River Herring in Coastal Massachusetts. Transactions of the American Fisheries Society, 2017, 146, 1101-1114.	1.4	22
38	DNA barcoding of eight North American coregonine species. Molecular Ecology Resources, 2008, 8, 1212-1218.	4.8	19
39	Conservation Genetics of Remnant Coastal Brook Trout Populations at the Southern Limit of Their Distribution: Population Structure and Effects of Stocking. Transactions of the American Fisheries Society, 2012, 141, 1399-1410.	1.4	17
40	Multiscale resistant kernel surfaces derived from inferred gene flow: An application with vernal pool breeding salamanders. Molecular Ecology Resources, 2020, 20, 97-113.	4.8	16
41	Simulation and empirical analysis of novel sibship-based genetic determination of fish passage. Canadian Journal of Fisheries and Aquatic Sciences, 2014, 71, 1667-1679.	1.4	15
42	Keeping things local: Subpopulation <i>N<sub>b</sub></i> and <i>N<sub>e</sub></i> in a stream network with partial barriers to fish migration. Evolutionary Applications, 2017, 10, 348-365.	3.1	14
43	Genomic population structure of Striped Bass ( <i>Morone saxatilis</i> ) from the Gulf of St. Lawrence to Cape Fear River. Evolutionary Applications, 2020, 13, 1468-1486.	3.1	13
44	Population Genetics of Brook Trout in the Southern Appalachian Mountains. Transactions of the American Fisheries Society, 2022, 151, 127-149.	1.4	12
45	Characterizing genetic integrity of rear-edge trout populations in the southern Appalachians. Conservation Genetics, 2018, 19, 1487-1503.	1.5	11
46	Evidence of a Genetically Distinct Population of Striped Bass within the Saint John River, New Brunswick, Canada. North American Journal of Fisheries Management, 2018, 38, 1339-1349.	1.0	11
47	Larger body size and earlier run timing increase alewife reproductive success in a whole lake experiment. Canadian Journal of Fisheries and Aquatic Sciences, 2019, 76, 1134-1146.	1.4	11
48	Multiscale assessment of functional connectivity: Landscape genetics of eastern indigo snakes in an anthropogenically fragmented landscape in central Florida. Molecular Ecology, 2021, 30, 3422-3438.	3.9	11
49	Population genetics of wild and managed pollinators: implications for crop pollination and the genetic integrity of wild bees. Conservation Genetics, 2017, 18, 667-677.	1.5	10
50	Simulating effects of fitness and dispersal on the use of Trojan sex chromosomes for the management of invasive species. Journal of Applied Ecology, 2020, 57, 1413-1425.	4.0	8
51	Precision and Relative Effectiveness of a Purse Seine for Sampling Age-0 River Herring in Lakes. North American Journal of Fisheries Management, 2018, 38, 650-662.	1.0	7
52	Feeling the Squeeze: Adult Run Size and Habitat Availability Limit Juvenile River Herring Densities in Lakes. Transactions of the American Fisheries Society, 2021, 150, 207-221.	1.4	6
53	Movement patterns of Brook Trout in a restored coastal stream system in southern Massachusetts. Ecology of Freshwater Fish, 2016, 25, 360-375.	1.4	5
54	Classroom Mark-Recapture with Crickets. American Biology Teacher, 2007, 69, 292-297.	0.2	4

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55	Genetic structure of a montane perennial plant: the influence of landscape and flowering phenology. <i>Conservation Genetics</i> , 2015, 16, 1431-1442.	1.5	4
56	No evidence for ecological segregation protecting native trout from invasive hybridization. <i>Global Change Biology</i> , 2017, 23, e11-e12.	9.5	4
57	Evaluation of Genetic Structuring within GIS-Derived Brook Trout Management Units. <i>Transactions of the American Fisheries Society</i> , 2020, 149, 681-694.	1.4	4
58	The use (and misuse) of archaeological salmon data to infer historical abundance in North America with a focus on New England. <i>Reviews in Fish Biology and Fisheries</i> , 2014, 24, 943-954.	4.9	3
59	Ultrasound imaging identifies life history variation in resident Cutthroat Trout. <i>PLoS ONE</i> , 2021, 16, e0246365.	2.5	3
60	Genetic monitoring informs conservation status and trend of Arctic grayling at the southern edge of their distribution. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2020, 77, 1934-1942.	1.4	3
61	Genetic variation in westslope cutthroat trout reveals that widespread genetic rescue is warranted. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2022, 79, 936-946.	1.4	3
62	Three Visualization Approaches for Communicating and Exploring Passive Integrated Transponder Tag Data. <i>Fisheries</i> , 2018, 43, 241-248.	0.8	2
63	Evaluating the Effects of Barriers on Slimy Sculpin Movement and Population Connectivity Using Novel Sibship-based and Traditional Genetic Metrics. <i>Transactions of the American Fisheries Society</i> , 2019, 148, 1117-1131.	1.4	2
64	Daily estimates reveal fine-scale temporal and spatial variation in fish survival across a stream network. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2019, 76, 1446-1458.	1.4	1