

Shawn R Narum

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

6,284
citations

94381

37
h-index

74108

75
g-index

102
all docs

102
docs citations

102
times ranked

6976
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond Bonferroni: Less conservative analyses for conservation genetics. <i>Conservation Genetics</i> , 2006, 7, 783-787.	0.8	836
2	Genotyping-by-sequencing in ecological and conservation genomics. <i>Molecular Ecology</i> , 2013, 22, 2841-2847.	2.0	469
3	Comparison of <i>F_{ST}</i> outlier tests for SNP loci under selection. <i>Molecular Ecology Resources</i> , 2011, 11, 184-194.	2.2	448
4	Genotyping in thousands by sequencing (GT-seq): A cost effective SNP genotyping method based on custom amplicon sequencing. <i>Molecular Ecology Resources</i> , 2015, 15, 855-867.	2.2	381
5	The sea lamprey germline genome provides insights into programmed genome rearrangement and vertebrate evolution. <i>Nature Genetics</i> , 2018, 50, 270-277.	9.4	262
6	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
7	Population genomics of Pacific lamprey: adaptive variation in a highly dispersive species. <i>Molecular Ecology</i> , 2013, 22, 2898-2916.	2.0	166
8	Genome-wide association reveals genetic basis for the propensity to migrate in wild populations of rainbow and steelhead trout. <i>Molecular Ecology</i> , 2013, 22, 3061-3076.	2.0	157
9	Thermal adaptation and acclimation of ectotherms from differing aquatic climates. <i>Molecular Ecology</i> , 2013, 22, 3090-3097.	2.0	153
10	Differentiating salmon populations at broad and fine geographical scales with microsatellites and single nucleotide polymorphisms. <i>Molecular Ecology</i> , 2008, 17, 3464-3477.	2.0	147
11	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 May 2009–31 July 2009. <i>Molecular Ecology Resources</i> , 2009, 9, 1460-1466.	2.2	128
12	Selection for upper thermal tolerance in rainbow trout (<i>Oncorhynchus mykiss</i> Walbaum). <i>Journal of Experimental Biology</i> , 2015, 218, 803-812.	0.8	110
13	Genetic basis of adult migration timing in anadromous steelhead discovered through multivariate association testing. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20153064.	1.2	107
14	Transcriptomic response to heat stress among ecologically divergent populations of redband trout. <i>BMC Genomics</i> , 2015, 16, 103.	1.2	106
15	Aquatic Landscape Genomics and Environmental Effects on Genetic Variation. <i>Trends in Ecology and Evolution</i> , 2019, 34, 641-654.	4.2	97
16	Environmental adaptation in Chinook salmon (<i>Oncorhynchus tshawytscha</i>) throughout their North American range. <i>Molecular Ecology</i> , 2015, 24, 5573-5595.	2.0	94
17	A validation of parentage-based tagging using hatchery steelhead in the Snake River basin. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2013, 70, 1046-1054.	0.7	88
18	Genetic divergence of sympatric resident and anadromous forms of <i>Oncorhynchus mykiss</i> in the Walla Walla River, U.S.A.. <i>Journal of Fish Biology</i> , 2004, 65, 471-488.	0.7	79

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19	Association Mapping of Disease Resistance Traits in Rainbow Trout Using Restriction Site Associated DNA Sequencing. <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 2473-2481.	0.8	79
20	Influence of landscape on resident and anadromous life history types of <i>Oncorhynchus mykiss</i> . <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2008, 65, 1013-1023.	0.7	78
21	Adaptation of redband trout in desert and montane environments. <i>Molecular Ecology</i> , 2010, 19, 4622-4637.	2.0	75
22	Use of genotyping by sequencing data to develop a high-throughput and multifunctional <i>SNP</i> panel for conservation applications in Pacific lamprey. <i>Molecular Ecology Resources</i> , 2015, 15, 187-202.	2.2	75
23	Mechanisms of thermal adaptation and evolutionary potential of conspecific populations to changing environments. <i>Molecular Ecology</i> , 2018, 27, 659-674.	2.0	72
24	Supportive breeding boosts natural population abundance with minimal negative impacts on fitness of a wild population of <i>C</i> chinook salmon. <i>Molecular Ecology</i> , 2012, 21, 5236-5250.	2.0	64
25	Genomic variation underlying complex life-history traits revealed by genome sequencing in Chinook salmon. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180935.	1.2	62
26	Adaptive genetic variation distinguishes Chilean blue mussels (<i>Mytilus chilensis</i>) from different marine environments. <i>Ecology and Evolution</i> , 2016, 6, 3632-3644.	0.8	57
27	Population differentiation determined from putative neutral and divergent adaptive genetic markers in Eulachon (<i>Thaleichthys pacificus</i> , Osmeridae), an anadromous Pacific smelt. <i>Molecular Ecology Resources</i> , 2015, 15, 1421-1434.	2.2	56
28	Relative contributions of neutral and non-neutral genetic differentiation to inform conservation of steelhead trout across highly variable landscapes. <i>Evolutionary Applications</i> , 2014, 7, 682-701.	1.5	52
29	Divergent life-history races do not represent Chinook salmon coast-wide: the importance of scale in Quaternary biogeography. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2013, 70, 415-435.	0.7	50
30	Monitoring Stock-Specific Abundance, Run Timing, and Straying of Chinook Salmon in the Columbia River Using Genetic Stock Identification (GSI). <i>North American Journal of Fisheries Management</i> , 2014, 34, 184-201.	0.5	47
31	Genomic signatures among <i>Oncorhynchus nerka</i> ecotypes to inform conservation and management of endangered Sockeye Salmon. <i>Evolutionary Applications</i> , 2016, 9, 1285-1300.	1.5	47
32	Parentage-Based Tagging: Reviewing the Implementation of a New Tool for an Old Problem. <i>Fisheries</i> , 2019, 44, 412-422.	0.6	47
33	The changing face of genome assemblies: Guidance on achieving high-quality reference genomes. <i>Molecular Ecology Resources</i> , 2021, 21, 641-652.	2.2	44
34	Examining Genetic Lineages of Chinook Salmon in the Columbia River Basin. <i>Transactions of the American Fisheries Society</i> , 2010, 139, 1465-1477.	0.6	43
35	Utility of pooled sequencing for association mapping in nonmodel organisms. <i>Molecular Ecology Resources</i> , 2018, 18, 825-837.	2.2	43
36	Differential adult migration-timing and stock-specific abundance of steelhead in mixed stock assemblages. <i>ICES Journal of Marine Science</i> , 2016, 73, 2606-2615.	1.2	42

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37	Impacts of Marker Class Bias Relative to Locus-Specific Variability on Population Inferences in Chinook Salmon: A Comparison of Single-Nucleotide Polymorphisms with Short Tandem Repeats and Allozymes. <i>Transactions of the American Fisheries Society</i> , 2007, 136, 1674-1687.	0.6	41
38	Sequence Divergence of Heat Shock Genes within and among 3 Oncorhynchids. <i>Journal of Heredity</i> , 2010, 101, 107-112.	1.0	41
39	Genes predict long distance migration and large body size in a migratory fish, Pacific lamprey. <i>Evolutionary Applications</i> , 2014, 7, 1192-1208.	1.5	41
40	Differential Expression of Genes that Control Respiration Contribute to Thermal Adaptation in Redband Trout (<i>Oncorhynchus mykiss gairdneri</i>). <i>Genome Biology and Evolution</i> , 2015, 7, 1404-1414.	1.1	41
41	Selection at a genomic region of major effect is responsible for evolution of complex life histories in anadromous steelhead. <i>BMC Evolutionary Biology</i> , 2018, 18, 140.	3.2	41
42	Vive la Résistance: genome-wide selection against introduced alleles in invasive hybrid zones. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161380.	1.2	40
43	Major Lineages and Metapopulations in Columbia River <i>Oncorhynchus mykiss</i> Are Structured by Dynamic Landscape Features and Environments. <i>Transactions of the American Fisheries Society</i> , 2011, 140, 665-684.	0.6	39
44	Climate variables explain neutral and adaptive variation within salmonid metapopulations: the importance of replication in landscape genetics. <i>Molecular Ecology</i> , 2016, 25, 689-705.	2.0	39
45	Physiological and genomic signatures of evolutionary thermal adaptation in redband trout from extreme climates. <i>Evolutionary Applications</i> , 2018, 11, 1686-1699.	1.5	38
46	Long-term evaluation of fitness and demographic effects of a Chinook Salmon supplementation program. <i>Evolutionary Applications</i> , 2019, 12, 456-469.	1.5	37
47	Landscape features along migratory routes influence adaptive genomic variation in anadromous steelhead (<i>Oncorhynchus mykiss</i>). <i>Molecular Ecology</i> , 2018, 27, 128-145.	2.0	36
48	Signatures of polygenic adaptation associated with climate across the range of a threatened fish species with high genetic connectivity. <i>Molecular Ecology</i> , 2017, 26, 6253-6269.	2.0	34
49	Heterogeneous genetic basis of age at maturity in salmonid fishes. <i>Molecular Ecology</i> , 2021, 30, 1435-1456.	2.0	29
50	Resolving Adaptive and Demographic Divergence among Chinook Salmon Populations in the Columbia River Basin. <i>Transactions of the American Fisheries Society</i> , 2011, 140, 783-807.	0.6	27
51	Development of 54 novel single-nucleotide polymorphism (SNP) assays for sockeye and coho salmon and assessment of available SNPs to differentiate stocks within the Columbia River. <i>Molecular Ecology Resources</i> , 2011, 11, 20-30.	2.2	27
52	Estimating Abundance and Life History Characteristics of Threatened Wild Snake River Steelhead Stocks by Using Genetic Stock Identification. <i>Transactions of the American Fisheries Society</i> , 2012, 141, 1310-1327.	0.6	26
53	Genomic islands of divergence infer a phenotypic landscape in Pacific lamprey. <i>Molecular Ecology</i> , 2020, 29, 3841-3856.	2.0	26
54	Genetic Variation and Structure of Chinook Salmon Life History Types in the Snake River. <i>Transactions of the American Fisheries Society</i> , 2007, 136, 1252-1262.	0.6	25

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55	Quantitative PCR assessment of microsatellite and SNP genotyping with variable quality DNA extracts. <i>Conservation Genetics</i> , 2009, 10, 779-784.	0.8	25
56	Whole genome resequencing reveals genomic regions associated with thermal adaptation in redband trout. <i>Molecular Ecology</i> , 2021, 30, 162-174.	2.0	25
57	An evaluation of the potential factors affecting lifetime reproductive success in salmonids. <i>Evolutionary Applications</i> , 2021, 14, 1929-1957.	1.5	25
58	Implications of Large-Effect Loci for Conservation: A Review and Case Study with Pacific Salmon. <i>Journal of Heredity</i> , 2022, 113, 121-144.	1.0	25
59	Single-Nucleotide Polymorphism (SNP) Loci Correlated with Run Timing in Adult Chinook Salmon from the Columbia River Basin. <i>Transactions of the American Fisheries Society</i> , 2011, 140, 855-864.	0.6	23
60	Applying genomics in assisted migration under climate change: Framework, empirical applications, and case studies. <i>Evolutionary Applications</i> , 2022, 15, 3-21.	1.5	23
61	Characterization of 22 novel single nucleotide polymorphism markers in steelhead and rainbow trout. <i>Molecular Ecology Resources</i> , 2009, 9, 318-322.	2.2	22
62	Candidate Genetic Markers Associated with Anadromy in <i>Oncorhynchus mykiss</i> of the Klickitat River. <i>Transactions of the American Fisheries Society</i> , 2011, 140, 843-854.	0.6	22
63	Reproductive isolation following reintroduction of Chinook salmon with alternative life histories. <i>Conservation Genetics</i> , 2007, 8, 1123-1132.	0.8	19
64	Identification of Novel Single Nucleotide Polymorphisms in Chinook Salmon and Variation among Life History Types. <i>Transactions of the American Fisheries Society</i> , 2008, 137, 96-106.	0.6	19
65	Migrating adult steelhead utilize a thermal refuge during summer periods with high water temperatures. <i>ICES Journal of Marine Science</i> , 2016, 73, 2616-2624.	1.2	19
66	Validation and association of candidate markers for adult migration timing and fitness in Chinook Salmon. <i>Evolutionary Applications</i> , 2020, 13, 2316-2332.	1.5	19
67	Steelhead (<i>Oncorhynchus mykiss</i>) lineages and sexes show variable patterns of association of adult migration timing and age-at-maturity traits with two genomic regions. <i>Evolutionary Applications</i> , 2020, 13, 2836-2856.	1.5	19
68	Distribution of genetic variation underlying adult migration timing in steelhead of the Columbia River basin. <i>Ecology and Evolution</i> , 2020, 10, 9486-9502.	0.8	18
69	Microsatellites Reveal Population Substructure of Klickitat River Native Steelhead and Genetic Divergence from an Introduced Stock. <i>North American Journal of Fisheries Management</i> , 2006, 26, 147-155.	0.5	17
70	Genomic patterns of diversity and divergence of two introduced salmonid species in Patagonia, South America. <i>Evolutionary Applications</i> , 2017, 10, 402-416.	1.5	17
71	Evidence for the genetic basis and epistatic interactions underlying ocean- and river-maturing ecotypes of Pacific Lamprey (<i>Entosphenus tridentatus</i>) returning to the Klamath River, California. <i>Molecular Ecology</i> , 2019, 28, 3171-3185.	2.0	15
72	Parentage-based tagging improves escapement estimates for ESA-listed adult Chinook salmon and steelhead in the Snake River basin. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2021, 78, 349-360.	0.7	15

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73	Biodiversity monitoring using environmental DNA. <i>Molecular Ecology Resources</i> , 2021, 21, 1405-1409.	2.2	15
74	Sea-to-sea survival of late-run adult steelhead (<i>Oncorhynchus mykiss</i>) from the Columbia and Snake rivers. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2018, 75, 331-341.	0.7	14
75	Development and Application of Single Nucleotide Polymorphism (SNP) Genetic Markers for Conservation Monitoring of Burbot Populations. <i>Transactions of the American Fisheries Society</i> , 2019, 148, 661-670.	0.6	14
76	Influences of Hatchery Supplementation, Spawner Distribution, and Habitat on Genetic Structure of Chinook Salmon in the South Fork Salmon River, Idaho. <i>North American Journal of Fisheries Management</i> , 2012, 32, 346-359.	0.5	13
77	A Distinctive Microsatellite Locus That Differentiates Ocean-Type from Stream-Type Chinook Salmon in the Interior Columbia River Basin. <i>Transactions of the American Fisheries Society</i> , 2004, 133, 1051-1055.	0.6	11
78	Small-Scale Genetic Structure and Variation in Steelhead of the Grande Ronde River, Oregon, USA. <i>Transactions of the American Fisheries Society</i> , 2006, 135, 979-986.	0.6	11
79	Patterns of genomic variation in Coho salmon following reintroduction to the interior Columbia River. <i>Ecology and Evolution</i> , 2017, 7, 10350-10360.	0.8	11
80	Detecting genomic variation underlying phenotypic characteristics of reintroduced Coho salmon (<i>Oncorhynchus kisutch</i>). <i>Conservation Genetics</i> , 2020, 21, 1011-1021.	0.8	10
81	Genomic region associated with run timing has similar haplotypes and phenotypic effects across three lineages of Chinook salmon. <i>Evolutionary Applications</i> , 2021, 14, 2273-2285.	1.5	10
82	Localized Genetic Structure Persists in Wild Populations of Chinook Salmon in the John Day River Despite Gene Flow from Outside Sources. <i>Transactions of the American Fisheries Society</i> , 2008, 137, 1650-1656.	0.6	8
83	What goes up does not come down: the stock composition and demographic characteristics of upstream migrating steelhead differ from post-spawn emigrating kelts. <i>ICES Journal of Marine Science</i> , 2016, 73, 2595-2605.	1.2	8
84	Evaluation of a trap-and-transport program for a threatened population of steelhead (<i>Oncorhynchus mykiss</i>) in the Tj ETQq0 0 0 rBT /Overlock 10 Tff	0.8	8
85	Early Observations from Monitoring a Reintroduction Program: Return of Sockeye Salmon to a Nursery Lake of Historical Importance. <i>Transactions of the American Fisheries Society</i> , 2019, 148, 271-288.	0.6	6
86	Introduction to a Special Section: Genetic Adaptation of Natural Salmonid Populations. <i>Transactions of the American Fisheries Society</i> , 2011, 140, 659-664.	0.6	5
87	Restricted gene flow between resident <i>Oncorhynchus mykiss</i> and an admixed population of anadromous steelhead. <i>Ecology and Evolution</i> , 2017, 7, 8349-8362.	0.8	5
88	Formation of population genetic structure following the introduction and establishment of non-native American shad (<i>Alosa sapidissima</i>) along the Pacific Coast of North America. <i>Biological Invasions</i> , 2018, 20, 3123-3143.	1.2	5
89	Genotyping single nucleotide polymorphisms and inferring ploidy by amplicon sequencing for polyploid, ploidy-variable organisms. <i>Molecular Ecology Resources</i> , 2021, 21, 2288-2298.	2.2	5
90	Influence of environmental conditions at spawning sites and migration routes on adaptive variation and population connectivity in Chinook salmon. <i>Ecology and Evolution</i> , 2021, 11, 16890-16908.	0.8	5

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91	Effects of Supplementation in Upper Yakima River Chinook Salmon. Transactions of the American Fisheries Society, 2022, 151, 373-388.	0.6	4
92	Relative Genetic Diversity Estimates among Four Pacific Salmonids. Transactions of the American Fisheries Society, 2011, 140, 822-828.	0.6	3
93	Whole-Genome Resequencing to Evaluate Life History Variation in Anadromous Migration of <i>Oncorhynchus mykiss</i> . Frontiers in Genetics, 2022, 13, 795850.	1.1	3
94	Epigenetic effects associated with salmonid supplementation and domestication. Environmental Biology of Fishes, 0, , .	0.4	3
95	Editorial 2016. Molecular Ecology Resources, 2016, 16, 1-6.	2.2	1
96	Editorial 2022. Molecular Ecology Resources, 2022, 22, 1-8.	2.2	1
97	Editorial 2017. Molecular Ecology Resources, 2017, 17, 129-137.	2.2	0