

Michael S Blouin

List of Publications by Year in descending order

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84
papers

7,312
citations

71102

41
h-index

56724

83
g-index

87
all docs

87
docs citations

87
times ranked

6523
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic Effects of Captive Breeding Cause a Rapid, Cumulative Fitness Decline in the Wild. <i>Science</i> , 2007, 318, 100-103.	12.6	735
2	DNA-based methods for pedigree reconstruction and kinship analysis in natural populations. <i>Trends in Ecology and Evolution</i> , 2003, 18, 503-511.	8.7	518
3	Fitness of hatchery-reared salmonids in the wild. <i>Evolutionary Applications</i> , 2008, 1, 342-355.	3.1	473
4	Molecular prospecting for cryptic species of nematodes: mitochondrial DNA versus internal transcribed spacer. <i>International Journal for Parasitology</i> , 2002, 32, 527-531.	3.1	372
5	Genetic adaptation to captivity can occur in a single generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 238-242.	7.1	350
6	Molecular ecology of parasites: elucidating ecological and microevolutionary processes. <i>Molecular Ecology</i> , 2005, 14, 2247-2257.	3.9	347
7	Population structure of Columbia spotted frogs (<i>Rana luteiventris</i>) is strongly affected by the landscape. <i>Molecular Ecology</i> , 2005, 14, 483-496.	3.9	305
8	Whole genome analysis of a schistosomiasis-transmitting freshwater snail. <i>Nature Communications</i> , 2017, 8, 15451.	12.8	216
9	Yields of cultured Pacific oysters <i>Crassostrea gigas</i> Thunberg improved after one generation of selection. <i>Aquaculture</i> , 2003, 220, 227-244.	3.5	206
10	Carry-over effect of captive breeding reduces reproductive fitness of wild-born descendants in the wild. <i>Biology Letters</i> , 2009, 5, 621-624.	2.3	199
11	A single generation of domestication heritably alters the expression of hundreds of genes. <i>Nature Communications</i> , 2016, 7, 10676.	12.8	191
12	Population Biology of Parasitic Nematodes: Applications of Genetic Markers. <i>Advances in Parasitology</i> , 1998, 41, 219-283.	3.2	185
13	On the reproductive success of early-generation hatchery fish in the wild. <i>Evolutionary Applications</i> , 2014, 7, 883-896.	3.1	172
14	LIFE CYCLES SHAPE PARASITE EVOLUTION: COMPARATIVE POPULATION GENETICS OF SALMON TREMATODES. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 198-202.	2.3	163
15	A review of colour and pattern polymorphisms in anurans. <i>Biological Journal of the Linnean Society</i> , 2000, 70, 633-665.	1.6	162
16	Reproductive Success of Captive-Bred Steelhead Trout in the Wild: Evaluation of Three Hatchery Programs in the Hood River. <i>Conservation Biology</i> , 2007, 21, 181-190.	4.7	152
17	Inbreeding avoidance behaviors. <i>Trends in Ecology and Evolution</i> , 1988, 3, 230-233.	8.7	134
18	Effective population size of steelhead trout: influence of variance in reproductive success, hatchery programs, and genetic compensation between life-history forms. <i>Molecular Ecology</i> , 2007, 16, 953-966.	3.9	125

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19	Life cycle variation and the genetic structure of nematode populations. <i>Heredity</i> , 1999, 83, 253-259.	2.6	104
20	Genetic structure in a montane ranid frog: restricted gene flow and nuclear-mitochondrial discordance. <i>Molecular Ecology</i> , 2003, 12, 3275-3286.	3.9	102
21	Population genetic structure reveals terrestrial affinities for a headwater stream insect. <i>Freshwater Biology</i> , 2007, 52, 1881-1897.	2.4	93
22	Reduced reproductive success of hatchery coho salmon in the wild: insights into most likely mechanisms. <i>Molecular Ecology</i> , 2011, 20, 1860-1869.	3.9	91
23	Effective sizes of macroparasite populations: a conceptual model. <i>Trends in Parasitology</i> , 2005, 21, 212-217.	3.3	88
24	Variations in the expressed antimicrobial peptide repertoire of northern leopard frog (<i>Rana pipiens</i>) populations suggest intraspecific differences in resistance to pathogens. <i>Developmental and Comparative Immunology</i> , 2009, 33, 1247-1257.	2.3	86
25	EVOLUTIONARY HISTORY OF THE NORTHERN LEOPARD FROG: RECONSTRUCTION OF PHYLOGENY, PHYLOGEOGRAPHY, AND HISTORICAL CHANGES IN POPULATION DEMOGRAPHY FROM MITOCHONDRIAL DNA. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 145-159.	2.3	81
26	PARASITE GENOTYPES IDENTIFY SOURCE POPULATIONS OF MIGRATORY FISH MORE ACCURATELY THAN FISH GENOTYPES. <i>Ecology</i> , 2006, 87, 823-828.	3.2	81
27	Hyperdiverse Gene Cluster in Snail Host Conveys Resistance to Human Schistosome Parasites. <i>PLoS Genetics</i> , 2015, 11, e1005067.	3.5	72
28	<i>Haemonchus placei</i> and <i>Haemonchus contortus</i> are distinct species based on mtDNA evidence. <i>International Journal for Parasitology</i> , 1997, 27, 1383-1387.	3.1	70
29	Who are the missing parents? Grandparentage analysis identifies multiple sources of gene flow into a wild population. <i>Molecular Ecology</i> , 2011, 20, 1263-1276.	3.9	64
30	Bayesian parentage analysis with systematic accountability of genotyping error, missing data and false matching. <i>Bioinformatics</i> , 2013, 29, 725-732.	4.1	64
31	Variation in expression of <i>Biomphalaria glabrata</i> SOD1: A potential controlling factor in susceptibility/resistance to <i>Schistosoma mansoni</i> . <i>Developmental and Comparative Immunology</i> , 2007, 31, 874-878.	2.3	57
32	An analysis of selection on a colour polymorphism in the northern leopard frog. <i>Molecular Ecology</i> , 2006, 15, 2627-2641.	3.9	55
33	Selection for Antimicrobial Peptide Diversity in Frogs Leads to Gene Duplication and Low Allelic Variation. <i>Journal of Molecular Evolution</i> , 2007, 65, 605-615.	1.8	54
34	Life history variation is maintained by fitness trade-offs and negative frequency-dependent selection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4441-4446.	7.1	54
35	COMPARATIVE ANALYSES OF EFFECTIVE POPULATION SIZE WITHIN AND AMONG SPECIES: RANID FROGS AS A CASE STUDY. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 2927-2945.	2.3	52
36	Effects of temperature-induced variation in anuran larval growth rate on head width and leg length at metamorphosis. <i>Oecologia</i> , 2000, 125, 358-361.	2.0	50

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37	MINIMAL SELFING, FEW CLONES, AND NO AMONG-HOST GENETIC STRUCTURE IN A HERMAPHRODITIC PARASITE WITH ASEXUAL LARVAL PROPAGATION. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 553-562.	2.3	50
38	Applying evolutionary genetics to schistosome epidemiology. <i>Infection, Genetics and Evolution</i> , 2010, 10, 433-443.	2.3	46
39	Extreme isolation by distance in a montane frog <i>Rana cascadae</i> . <i>Conservation Genetics</i> , 2004, 5, 827-835.	1.5	45
40	Schistosome infectivity in the snail, <i>Biomphalaria glabrata</i> , is partially dependent on the expression of Grctm6, a Guadeloupe Resistance Complex protein.. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005362.	3.0	43
41	Parasite phylogeographical congruence with salmon host evolutionarily significant units: implications for salmon conservation. <i>Molecular Ecology</i> , 2006, 16, 993-1005.	3.9	42
42	Effects of Cu/Zn Superoxide Dismutase (sod1) Genotype and Genetic Background on Growth, Reproduction and Defense in <i>Biomphalaria glabrata</i> . <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1701.	3.0	42
43	Is there a best shape for nature reserves?. <i>Biological Conservation</i> , 1985, 32, 277-288.	4.1	41
44	Historical data refute recent range contraction as cause of low genetic diversity in isolated frog populations. <i>Molecular Ecology</i> , 2004, 13, 271-276.	3.9	40
45	Unbiased estimation of relative reproductive success of different groups: evaluation and correction of bias caused by parentage assignment errors. <i>Molecular Ecology</i> , 2005, 14, 4097-4109.	3.9	40
46	Balancing Selection at a Frog Antimicrobial Peptide Locus: Fluctuating Immune Effector Alleles?. <i>Molecular Biology and Evolution</i> , 2008, 25, 2669-2680.	8.9	40
47	More than meets the eye: detecting cryptic microgeographic population structure in a parasite with a complex life cycle. <i>Molecular Ecology</i> , 2011, 20, 2510-2524.	3.9	39
48	No evidence for large differences in genomic methylation between wild and hatchery steelhead (<i>Oncorhynchus mykiss</i>). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2010, 67, 217-224.	1.4	37
49	Genome-Wide Scan and Test of Candidate Genes in the Snail <i>Biomphalaria glabrata</i> Reveal New Locus Influencing Resistance to <i>Schistosoma mansoni</i> . <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0004077.	3.0	32
50	Comparing bivariate reaction norms among species: time and size at metamorphosis in three species of <i>Hyla</i> (Anura: Hylidae). <i>Oecologia</i> , 1992, 90, 288-293.	2.0	31
51	Effects of Environmentally Induced Development-Rate Variation on Head and Limb Morphology in the Green Tree Frog, <i>Hyla cinerea</i> . <i>American Naturalist</i> , 1991, 138, 717-728.	2.1	30
52	Population structure and conservation genetics of the Oregon spotted frog, <i>Rana pretiosa</i> . <i>Conservation Genetics</i> , 2010, 11, 2179-2194.	1.5	28
53	Allelic Variation in a Single Genomic Region Alters the Microbiome of the Snail <i>Biomphalaria glabrata</i> . <i>Journal of Heredity</i> , 2018, 109, 604-609.	2.4	26
54	Three genes involved in the oxidative burst are closely linked in the genome of the snail, <i>Biomphalaria glabrata</i> . <i>International Journal for Parasitology</i> , 2013, 43, 51-55.	3.1	24

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55	Genotypic variation in host response to infection affects parasite reproductive rate. <i>International Journal for Parasitology</i> , 2016, 46, 123-131.	3.1	22
56	Identification of Symbiotic Bacteria (<i>Photorhabdus</i> and <i>Xenorhabdus</i>) from the Entomopathogenic Nematodes <i>Heterorhabditis marelatus</i> and <i>Steinernema oregonense</i> Based on 16S rDNA Sequence. <i>Journal of Invertebrate Pathology</i> , 2001, 77, 87-91.	3.2	20
57	Non-Invasive Sampling of Schistosomes from Humans Requires Correcting for Family Structure. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2456.	3.0	18
58	Sequencing and characterization of the anadromous steelhead (<i>Oncorhynchus mykiss</i>) transcriptome. <i>Marine Genomics</i> , 2014, 15, 13-15.	1.1	18
59	A Targeted Capture Linkage Map Anchors the Genome of the Schistosomiasis Vector Snail, <i>Biomphalaria glabrata</i> . <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 2353-2361.	1.8	18
60	Clusters of polymorphic transmembrane genes control resistance to schistosomes in snail vectors. <i>ELife</i> , 2020, 9, .	6.0	18
61	A potential bias in the temporal method for estimating Neim admixed populations under natural selection. <i>Molecular Ecology</i> , 2007, 16, 2261-2271.	3.9	15
62	How Much Does Inbreeding Contribute to the Reduced Fitness of Hatchery-Born Steelhead (<i>Oncorhynchus mykiss</i>) in the Wild?. <i>Journal of Heredity</i> , 2014, 105, 111-119.	2.4	15
63	The effects of high rearing density on the potential for domestication selection in hatchery culture of steelhead (<i>Oncorhynchus mykiss</i>). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2015, 72, 1829-1834.	1.4	15
64	Genetic variation in two populations of the rough-skinned newt (<i>Taricha granulosa</i>) assessed using novel tetranucleotide microsatellite loci. <i>Molecular Ecology Notes</i> , 2001, 1, 293-296.	1.7	14
65	Evolution of Palatability Differences between Closely-Related Treefrogs. <i>Journal of Herpetology</i> , 1990, 24, 309.	0.5	13
66	Effective number of breeding adults in Oregon spotted frogs (<i>Rana pretiosa</i>): genetic estimates at two life stages. <i>Conservation Genetics</i> , 2010, 11, 737-745.	1.5	13
67	Clearance of schistosome parasites by resistant genotypes at a single genomic region in <i>Biomphalaria glabrata</i> snails involves cellular components of the hemolymph. <i>International Journal for Parasitology</i> , 2018, 48, 387-393.	3.1	13
68	Allelic variation partially regulates galactose-dependent hydrogen peroxide release from circulating hemocytes of the snail <i>Biomphalaria glabrata</i> . <i>Fish and Shellfish Immunology</i> , 2018, 72, 111-116.	3.6	11
69	Allelic variation in a single genomic region alters the hemolymph proteome in the snail <i>Biomphalaria glabrata</i> . <i>Fish and Shellfish Immunology</i> , 2019, 88, 301-307.	3.6	11
70	Offspring of first-generation hatchery steelhead trout (<i>Oncorhynchus mykiss</i>) grow faster in the hatchery than offspring of wild fish, but survive worse in the wild: Possible mechanisms for inadvertent domestication and fitness loss in hatchery salmon. <i>PLoS ONE</i> , 2021, 16, e0257407.	2.5	11
71	Proximate developmental causes of limb length variation between <i>Hyla cinerea</i> and <i>Hyla gratiosa</i> (Anura: Hylidae). <i>Journal of Morphology</i> , 1991, 209, 305-310.	1.2	8
72	Sex-biased survivorship and differences in migration of wild steelhead (<i>Oncorhynchus mykiss</i>)	1.4	8

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73	Eleven polymorphic microsatellite loci for the salmonid trematode <i>Plagioporus shawi</i> . <i>Molecular Ecology Notes</i> , 2005, 5, 562-564.	1.7	7
74	Sex reversal, selection against hatchery females or wild males does not explain differences in sex ratio between first generation hatchery and wild steelhead, <i>Oncorhynchus mykiss</i> . <i>Environmental Biology of Fishes</i> , 2015, 98, 113-120.	1.0	7
75	Family influence on length at release and size-biased survival post release in hatchery-reared steelhead: A mechanism to explain how genetic adaptation to captivity occurs. <i>Aquaculture</i> , 2018, 491, 135-146.	3.5	7
76	The behavioral effects of antibiotic treatment on the snail <i>Biomphalaria glabrata</i> . <i>PeerJ</i> , 2017, 5, e4171.	2.0	6
77	Neither heat pulse, nor multigenerational exposure to a modest increase in water temperature, alters the susceptibility of Guadeloupean <i>Biomphalaria glabrata</i> to <i>Schistosoma mansoni</i> infection. <i>PeerJ</i> , 2020, 8, e9059.	2.0	6
78	Spawn date explains variation in growth rate among families of hatchery reared Hood River steelhead (<i>Oncorhynchus mykiss</i>). <i>Environmental Biology of Fishes</i> , 2016, 99, 581-591.	1.0	4
79	Inheritance of a Naturally Occurring Color Polymorphism in the Ornate Chorus Frog, <i>Pseudacris ornata</i> . <i>Copeia</i> , 1989, 1989, 1056.	1.3	3
80	A revised leopard frog phylogeny allows a more detailed examination of adaptive evolution at ranatuerin-2 antimicrobial peptide loci. <i>Immunogenetics</i> , 2010, 62, 333-343.	2.4	3
81	Heat shock increases hydrogen peroxide release from circulating hemocytes of the snail <i>Biomphalaria glabrata</i> . <i>Fish and Shellfish Immunology</i> , 2020, 105, 203-208.	3.6	3
82	Effects of temperature on sexual development in steelhead, <i>Oncorhynchus mykiss</i> . <i>Environmental Biology of Fishes</i> , 2021, 104, 229-238.	1.0	3
83	MINIMAL SELFING, FEW CLONES, AND NO AMONG-HOST GENETIC STRUCTURE IN A HERMAPHRODITIC PARASITE WITH ASEXUAL LARVAL PROPAGATION. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 553.	2.3	2
84	Who are the missing parents? Grandparentage analysis identifies multiple sources of gene flow into a wild population. , 2011, 20, 1263.		1