

Michael C Fontaine

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

3,255
citations

201674

27
h-index

182427

51
g-index

72
all docs

72
docs citations

72
times ranked

5035
citing authors

#	ARTICLE	IF	CITATIONS
1	Extensive introgression in a malaria vector species complex revealed by phylogenomics. <i>Science</i> , 2015, 347, 1258524.	12.6	527
2	Highly evolvable malaria vectors: The genomes of 16 <i>Anopheles</i> mosquitoes. <i>Science</i> , 2015, 347, 1258522.	12.6	492
3	Genetic diversity of the African malaria vector <i>Anopheles gambiae</i> . <i>Nature</i> , 2017, 552, 96-100.	27.8	288
4	Rise of oceanographic barriers in continuous populations of a cetacean: the genetic structure of harbour porpoises in Old World waters. <i>BMC Biology</i> , 2007, 5, 30.	3.8	161
5	Genetic structure in a dynamic baboon hybrid zone corroborates behavioural observations in a hybrid population. <i>Molecular Ecology</i> , 2012, 21, 715-731.	3.9	114
6	Genetic signature of a range expansion and leapfrog event after the recent invasion of Europe by the grapevine downy mildew pathogen <i>Plasmopara viticola</i> . <i>Molecular Ecology</i> , 2013, 22, 2771-2786.	3.9	86
7	Maintenance of Fungal Pathogen Species That Are Specialized to Different Hosts: Allopatric Divergence and Introgression through Secondary Contact. <i>Molecular Biology and Evolution</i> , 2011, 28, 459-471.	8.9	79
8	Glacial Refugia in Pathogens: European Genetic Structure of Anther Smut Pathogens on <i>Silene latifolia</i> and <i>Silene dioica</i> . <i>PLoS Pathogens</i> , 2010, 6, e1001229.	4.7	70
9	Host, Symbionts, and the Microbiome: The Missing Tripartite Interaction. <i>Trends in Microbiology</i> , 2019, 27, 480-488.	7.7	70
10	Postglacial climate changes and rise of three ecotypes of harbour porpoises, <i>Phocoena phocoena</i> , in western Arctic waters. <i>Molecular Ecology</i> , 2014, 23, 3306-3321.	3.9	67
11	Chromosomal Inversions, Natural Selection and Adaptation in the Malaria Vector <i>Anopheles funestus</i> . <i>Molecular Biology and Evolution</i> , 2011, 28, 745-758.	8.9	62
12	Genetic and historic evidence for climate-driven population fragmentation in a top cetacean predator: the harbour porpoises in European water. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 2829-2837.	2.6	61
13	Ecological and pathological factors related to trace metal concentrations in harbour porpoises <i>Phocoena phocoena</i> from the North Sea and adjacent areas. <i>Marine Ecology - Progress Series</i> , 2004, 281, 283-295.	1.9	59
14	Different biogeographic patterns of prokaryotes and microbial eukaryotes in epilithic biofilms. <i>Molecular Ecology</i> , 2012, 21, 3852-3868.	3.9	57
15	History of expansion and anthropogenic collapse in a top marine predator of the Black Sea estimated from genetic data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2569-76.	7.1	54
16	Ecological opportunities and specializations shaped genetic divergence in a highly mobile marine top predator. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141558.	2.6	51
17	The Evolution of the <i>Anopheles</i> 16 Genomes Project. <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 1191-1194.	1.8	49
18	The critically endangered vaquita is not doomed to extinction by inbreeding depression. <i>Science</i> , 2022, 376, 635-639.	12.6	49

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19	Barriers to Gene Flow in the Marine Environment: Insights from Two Common Intertidal Limpet Species of the Atlantic and Mediterranean. PLoS ONE, 2012, 7, e50330.	2.5	46
20	Finding candidate genes under positive selection in Non-model species: examples of genes involved in host specialization in pathogens. Molecular Ecology, 2010, 19, 292-306.	3.9	44
21	Patterns of divergence across the geographic and genomic landscape of a butterfly hybrid zone associated with a climatic gradient. Molecular Ecology, 2017, 26, 4725-4742.	3.9	44
22	Mixing of porpoise ecotypes in southwestern UK waters revealed by genetic profiling. Royal Society Open Science, 2017, 4, 160992.	2.4	40
23	Genetic pattern of the recent recovery of European otters in southern France. Ecography, 2008, 31, 176-186.	4.5	39
24	Long-term feeding ecology and habitat use in harbour porpoises <i>Phocoena phocoena</i> from Scandinavian waters inferred from trace elements and stable isotopes. BMC Ecology, 2007, 7, 1.	3.0	37
25	Cereal Domestication and Evolution of Branching: Evidence for Soft Selection in the Tb1 Orthologue of Pearl Millet (<i>Pennisetum glaucum</i> [L.] R. Br.). PLoS ONE, 2011, 6, e22404.	2.5	37
26	Temporal isolation explains host-related genetic differentiation in a group of widespread mycoparasitic fungi. Molecular Ecology, 2011, 20, 1492-1507.	3.9	37
27	A relict bank vole lineage highlights the biogeographic history of the Pyrenean region in Europe. Molecular Ecology, 2009, 18, 2489-2502.	3.9	36
28	Europe as a bridgehead in the worldwide invasion history of grapevine downy mildew, <i>Plasmopara viticola</i> . Current Biology, 2021, 31, 2155-2166.e4.	3.9	36
29	Chromosomal inversions and ecotypic differentiation in <i>Anopheles gambiae</i> : the perspective from whole-genome sequencing. Molecular Ecology, 2016, 25, 5889-5906.	3.9	35
30	History of the invasion of the anther smut pathogen on <i>Silene latifolia</i> in North America. New Phytologist, 2013, 198, 946-956.	7.3	33
31	Radiation with reticulation marks the origin of a major malaria vector. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31583-31590.	7.1	29
32	Resilience of harbor porpoises to anthropogenic disturbance: Must they really feed continuously?. Marine Mammal Science, 2018, 34, 258-264.	1.8	28
33	Spatial variation in the accumulation of POPs and mercury in bottlenose dolphins of the Lower Florida Keys and the coastal Everglades (South Florida). Environmental Pollution, 2017, 220, 577-587.	7.5	27
34	Selection on ancestral genetic variation fuels repeated ecotype formation in bottlenose dolphins. Science Advances, 2021, 7, eabg1245.	10.3	27
35	Harbour Porpoises, <i>Phocoena phocoena</i> , in the Mediterranean Sea and Adjacent Regions. Advances in Marine Biology, 2016, 75, 333-358.	1.4	22
36	Carbon and Nitrogen Isotopic Ratios of the Seagrass <i>Posidonia oceanica</i> : Depth-related Variations. Botanica Marina, 2003, 46, .	1.2	21

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37	Population genomic evidence of <i>Plasmodium vivax</i> Southeast Asian origin. <i>Science Advances</i> , 2021, 7, .	10.3	21
38	A European Melting Pot of Harbour Porpoise in the French Atlantic Coasts Inferred from Mitochondrial and Nuclear Data. <i>PLoS ONE</i> , 2012, 7, e44425.	2.5	20
39	Population structure, connectivity, and demographic history of an apex marine predator, the bull shark <i>Carcharhinus leucas</i> . <i>Ecology and Evolution</i> , 2019, 9, 12980-13000.	1.9	18
40	Factors shaping gene flow in red deer (<i>Cervus elaphus</i>) in seminatural landscapes of central Europe. <i>Canadian Journal of Zoology</i> , 2012, 90, 150-162.	1.0	17
41	Enhanced computational methods for quantifying the effect of geographic and environmental isolation on genetic differentiation. <i>Methods in Ecology and Evolution</i> , 2015, 6, 1270-1277.	5.2	13
42	Mitochondrial genomics reveals the evolutionary history of the porpoises (Phocoenidae) across the speciation continuum. <i>Scientific Reports</i> , 2020, 10, 15190.	3.3	13
43	Scaffold assembly based on genome rearrangement analysis. <i>Computational Biology and Chemistry</i> , 2015, 57, 46-53.	2.3	12
44	Assessing connectivity despite high diversity in island populations of a malaria mosquito. <i>Evolutionary Applications</i> , 2020, 13, 417-431.	3.1	11
45	Genetic signatures of variation in population size in a native fungal pathogen after the recent massive plantation of its host tree. <i>Heredity</i> , 2017, 119, 402-410.	2.6	10
46	Building genomic infrastructure: Sequencing platinum-quality genomes of all cetacean species. <i>Marine Mammal Science</i> , 2020, 36, 1356-1366.	1.8	10
47	Population structure in a continuously distributed coastal marine species, the harbor porpoise, based on microhaplotypes derived from poor-quality samples. <i>Molecular Ecology</i> , 2021, 30, 1457-1476.	3.9	10
48	Genetic footprint of population fragmentation and contemporary collapse in a freshwater cetacean. <i>Scientific Reports</i> , 2017, 7, 14449.	3.3	9
49	Efficiency of Fluorescent Multiplex Polymerase Chain Reactions (PCRs) for Rapid Genotyping of Harbour Porpoises (<i>Phocoena phocoena</i>) with 11 Microsatellite Loci. <i>Aquatic Mammals</i> , 2006, 32, 301-304.	0.7	9
50	Polymorphism pattern at a miniature inverted-repeat transposable element locus downstream of the domestication gene <i>Teosinte branched 1</i> in wild and domesticated pearl millet. <i>Molecular Ecology</i> , 2013, 22, 327-340.	3.9	7
51	Habitat segregation of plate phenotypes in a rapidly expanding population of three-spined stickleback. <i>Ecosphere</i> , 2021, 12, e03561.	2.2	7
52	Global flyway evolution in red knots <i>Calidris canutus</i> and genetic evidence for a Nearctic refugium. <i>Molecular Ecology</i> , 2022, 31, 2124-2139.	3.9	7
53	Genomic and proteomic identification of Late Holocene remains: Setting baselines for Black Sea odontocetes. <i>Journal of Archaeological Science: Reports</i> , 2017, 15, 262-271.	0.5	6
54	Cytochrome P450 1A1 expression in cetacean skin biopsies from the Indian Ocean. <i>Marine Pollution Bulletin</i> , 2011, 62, 1317-1319.	5.0	5

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55	Genetic homogeneity in the face of morphological heterogeneity in the harbor porpoise from the Black Sea and adjacent waters (<i>Phocoena phocoena relicta</i>). <i>Heredity</i> , 2020, 124, 469-484.	2.6	5
56	No leading-edge effect in North Atlantic harbor porpoises: Evolutionary and conservation implications. <i>Evolutionary Applications</i> , 2021, 14, 1588-1611.	3.1	3
57	Predator biomass and vegetation influence the coastal distribution of threespine stickleback morphotypes. <i>Ecology and Evolution</i> , 2021, 11, 12485-12496.	1.9	3
58	Genetic pattern of the recent recovery of European otters in southern France. <i>Ecography</i> , 2007, .	4.5	2
59	Evolutionary history of <i>Plasmodium vivax</i> and <i>Plasmodium simium</i> in the Americas. <i>Malaria Journal</i> , 2022, 21, 141.	2.3	2
60	A genomic perspective timely needed for re-evaluating the species delimitations, evolutionary trajectories, and conservation strategies of the Galapagos giant tortoises. <i>Peer Community in Evolutionary Biology</i> , 2018, , 100031.	0.0	0