

# John Carlos Garza

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

4,389  
citations

159358

30  
h-index

114278

63  
g-index

70  
all docs

70  
docs citations

70  
times ranked

4950  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of reduction in population size using data from microsatellite loci. <i>Molecular Ecology</i> , 2001, 10, 305-318.	2.0	1,385
2	Microsatellite allele frequencies in humans and chimpanzees, with implications for constraints on allele size.. <i>Molecular Biology and Evolution</i> , 1995, 12, 594-603.	3.5	281
3	The Power of Single-Nucleotide Polymorphisms for Large-Scale Parentage Inference. <i>Genetics</i> , 2006, 172, 2567-2582.	1.2	236
4	Sex-dependent dominance maintains migration supergene in rainbow trout. <i>Nature Ecology and Evolution</i> , 2019, 3, 1731-1742.	3.4	188
5	Development of a Standardized DNA Database for Chinook Salmon. <i>Fisheries</i> , 2007, 32, 540-552.	0.6	162
6	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
7	Rapid parallel evolution of standing variation in a single, complex, genomic region is associated with life history in steelhead/rainbow trout. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140012.	1.2	140
8	Microhaplotypes provide increased power from shortâ€œread <sc>DNA</sc> sequences for relationship inference. <i>Molecular Ecology Resources</i> , 2018, 18, 296-305.	2.2	101
9	Homoplasmy for size at microsatellite loci in humans and chimpanzees.. <i>Genome Research</i> , 1996, 6, 211-217.	2.4	99
10	Over the Falls? Rapid Evolution of Ecotypic Differentiation in Steelhead/Rainbow Trout ( <i>Oncorhynchus mykiss</i> ). <i>Journal of Heredity</i> , 2009, 100, 515-525.	1.0	84
11	A comparison of variability and population structure for major histocompatibility complex and microsatellite loci in California coastal steelhead (<i>Oncorhynchus mykiss</i> Walbaum). <i>Molecular Ecology</i> , 2006, 15, 923-937.	2.0	81
12	Low Genetic Variability in the Highly Endangered Mediterranean Monk Seal. , 2004, 95, 291-300.		65
13	Largeâ€œscale parentage analysis reveals reproductive patterns and heritability of spawn timing in a hatchery population of steelhead (<i>Oncorhynchus mykiss</i>). <i>Molecular Ecology</i> , 2013, 22, 4733-4746.	2.0	65
14	A complex phenotype in salmon controlled by a simple change in migratory timing. <i>Science</i> , 2020, 370, 609-613.	6.0	65
15	Population structure and genetic diversity of trout ( <i>Oncorhynchus mykiss</i> ) above and below natural and man-made barriers in the Russian River, California. <i>Conservation Genetics</i> , 2007, 8, 437-454.	0.8	62
16	Ancestry and adaptive evolution of anadromous, resident, and adfluvial rainbow trout (<i>Oncorhynchus mykiss</i>) in the San Francisco bay area: application of adaptive genomic variation to conservation in a highly impacted landscape. <i>Evolutionary Applications</i> , 2017, 10, 56-67.	1.5	60
17	A phylogenetic study of the gibbons ( <i>Hylobates</i> ) using DNA obtained noninvasively from hair. <i>Molecular Phylogenetics and Evolution</i> , 1992, 1, 202-210.	1.2	55
18	Population genetic structure and ancestry of <i>Oncorhynchus mykiss</i> populations above and below dams in south-central California. <i>Conservation Genetics</i> , 2009, 10, 1321-1336.	0.8	52

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19	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
20	Shifting Thresholds: Rapid Evolution of Migratory Life Histories in Steelhead/Rainbow Trout, <i>Oncorhynchus mykiss</i> . <i>Journal of Heredity</i> , 2016, 107, 51-60.	1.0	46
21	Evaluation of a single nucleotide polymorphism baseline for genetic stock identification of Chinook Salmon ( <i>Oncorhynchus tshawytscha</i> ) in the California Current large marine ecosystem. <i>Fishery Bulletin</i> , 2014, 112, 112-130.	0.1	45
22	Rapid adaptive evolution of the diapause program during range expansion of an invasive mosquito. <i>Evolution; International Journal of Organic Evolution</i> , 2020, 74, 1451-1465.	1.1	44
23	Dispersal of a nearshore marine fish connects marine reserves and adjacent fished areas along an open coast. <i>Molecular Ecology</i> , 2019, 28, 1611-1623.	2.0	40
24	Discovery and characterization of single nucleotide polymorphisms in steelhead/rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Molecular Ecology Resources</i> , 2011, 11, 31-49.	2.2	39
25	Kinship analyses identify fish dispersal events on a temperate coastline. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140556.	1.2	39
26	Stock composition and ocean spatial distribution inference from California recreational Chinook salmon fisheries using genetic stock identification. <i>Fisheries Research</i> , 2015, 170, 166-178.	0.9	39
27	Conservation of Native Pacific Trout Diversity in Western North America. <i>Fisheries</i> , 2016, 41, 286-300.	0.6	39
28	Demographic history shaped geographical patterns of deleterious mutation load in a broadly distributed Pacific Salmon. <i>PLoS Genetics</i> , 2020, 16, e1008348.	1.5	38
29	A Microsatellite Genome Screen Identifies Chromosomal Regions under Differential Selection in Steelhead and Rainbow Trout. <i>Transactions of the American Fisheries Society</i> , 2011, 140, 829-842.	0.6	37
30	Patterns of Historical Balancing Selection on the Salmonid Major Histocompatibility Complex Class II $\hat{\mu}^2$ Gene. <i>Journal of Molecular Evolution</i> , 2007, 65, 34-43.	0.8	35
31	Use of Genetic Stock Identification Data for Comparison of the Ocean Spatial Distribution, Size at Age, and Fishery Exposure of an Untagged Stock and Its Indicator: California Coastal versus Klamath River Chinook Salmon. <i>Transactions of the American Fisheries Society</i> , 2014, 143, 117-133.	0.6	34
32	Should I Stay or Should I Go? The Influence of Genetic Origin on Emigration Behavior and Physiology of Resident and Anadromous Juvenile <i>Oncorhynchus mykiss</i> . <i>North American Journal of Fisheries Management</i> , 2012, 32, 772-780.	0.5	31
33	Temporal recruitment patterns and gene flow in kelp rockfish ( <i>Sebastes atrovirens</i> ). <i>Molecular Ecology</i> , 2006, 15, 3801-3815.	2.0	30
34	Disruption of historical patterns of isolation by distance in coastal steelhead. <i>Conservation Genetics</i> , 2011, 12, 691-700.	0.8	30
35	Discovery and characterization of single nucleotide polymorphisms in Chinook salmon, <i>Oncorhynchus tshawytscha</i> . <i>Molecular Ecology Resources</i> , 2011, 11, 50-66.	2.2	29
36	Heterogeneous genetic basis of age at maturity in salmonid fishes. <i>Molecular Ecology</i> , 2021, 30, 1435-1456.	2.0	29

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37	Population genetic structure and ancestry of steelhead/rainbow trout ( <i>Oncorhynchus mykiss</i> ) at the extreme southern edge of their range in North America. <i>Conservation Genetics</i> , 2016, 17, 675-689.	0.8	28
38	Population genetics of steelhead ( <i>Oncorhynchus mykiss</i> ) in the Klamath River. <i>Environmental Biology of Fishes</i> , 2007, 80, 377-387.	0.4	25
39	Population Structure of Steelhead in Coastal California. <i>Transactions of the American Fisheries Society</i> , 2014, 143, 134-152.	0.6	25
40	Genetic and life-history consequences of extreme climate events. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162118.	1.2	23
41	Genetic Structure of Pacific Trout at the Extreme Southern End of Their Native Range. <i>PLoS ONE</i> , 2015, 10, e0141775.	1.1	20
42	Isolation of 15 single nucleotide polymorphisms from coastal steelhead, <i>Oncorhynchus mykiss</i> (Salmonidae). <i>Molecular Ecology Resources</i> , 2008, 8, 659-662.	2.2	19
43	Parallel evolution of the summer steelhead ecotype in multiple populations from Oregon and Northern California. <i>Conservation Genetics</i> , 2016, 17, 165-175.	0.8	17
44	Molecular Population Genetics of the Northern Elephant Seal <i>Mirounga angustirostris</i> . <i>Journal of Heredity</i> , 2017, 108, 618-627.	1.0	16
45	Identification of Northeastern Pacific Rockfish Using Multilocus Nuclear DNA Genotypes. <i>Transactions of the American Fisheries Society</i> , 2007, 136, 272-280.	0.6	14
46	Long-distance migration is a major factor driving local adaptation at continental scale in Coho salmon. <i>Molecular Ecology</i> , 2023, 32, 542-559.	2.0	14
47	Hybridization between Spring and Fall Run Chinook Salmon Returning to the Trinity River, California. <i>North American Journal of Fisheries Management</i> , 2008, 28, 1426-1438.	0.5	13
48	Genetic structure and different color morphotypes suggest the occurrence and bathymetric segregation of two incipient species of <i>Sebastes</i> off Argentina. <i>Die Naturwissenschaften</i> , 2013, 100, 645-658.	0.6	13
49	Discovery and characterization of single nucleotide polymorphisms in coho salmon, <i>Oncorhynchus kisutch</i> . <i>Molecular Ecology Resources</i> , 2016, 16, 277-287.	2.2	13
50	You Can't Unscramble an Egg: Population Genetic Structure of <i>Oncorhynchus mykiss</i> in the California Central Valley Inferred from Combined Microsatellite and Single Nucleotide Polymorphism Data. <i>San Francisco Estuary and Watershed Science</i> , 2015, 13, .	0.2	12
51	Early ocean distribution of juvenile Chinook salmon in an upwelling ecosystem. <i>Fisheries Oceanography</i> , 2016, 25, 133-146.	0.9	12
52	Discovery and characterization of single nucleotide polymorphisms in two anadromous alosine fishes of conservation concern. <i>Ecology and Evolution</i> , 2017, 7, 6638-6648.	0.8	12
53	Hierarchical Phylogeographic Structure of Coho Salmon in California. <i>Transactions of the American Fisheries Society</i> , 2016, 145, 1122-1138.	0.6	11
54	Comprehensive evaluation of genetic population structure for anadromous river herring with single nucleotide polymorphism data. <i>Fisheries Research</i> , 2018, 206, 247-258.	0.9	11

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55	Restoration-mediated secondary contact leads to introgression of alewife ecotypes separated by a colonial-era dam. <i>Evolutionary Applications</i> , 2020, 13, 652-664.	1.5	10
56	Contemporary Population Structure in Klamath River Basin Chinook Salmon Revealed by Analysis of Microsatellite Genetic Data. <i>Transactions of the American Fisheries Society</i> , 2013, 142, 1347-1357.	0.6	9
57	Cryptic population structure in the severely depleted cowcod, <i>Sebastes levis</i> . <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2014, 71, 81-92.	0.7	7
58	Polygenic Basis and the Role of Genome Duplication in Adaptation to Similar Selective Environments. <i>Journal of Heredity</i> , 2021, 112, 614-625.	1.0	7
59	Crested gibbon ( <i>Hylobates [Nomascus]</i> ) identification using noninvasively obtained DNA. <i>Zoo Biology</i> , 1994, 13, 383-387.	0.5	6
60	Identification of multiple genetically distinct populations of Chinook salmon ( <i>Oncorhynchus tshawytscha</i> ) in the Columbia River. <i>Conservation Genetics</i> , 2011, 12, 541-549.	0.4	4
61	Effects of species invasion on population dynamics, vital rates and life histories of the native species. <i>Population Ecology</i> , 2019, 61, 25-34.	0.7	4
62	Differences in growth and condition of juvenile <i>Oncorhynchus mykiss</i> related to sex and a migration-associated genomic region. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2021, 78, 322-331.	0.7	4
63	Genetic assignment of fisheries bycatch reveals disproportionate mortality among Alaska Northern Fulmar breeding colonies. <i>Evolutionary Applications</i> , 2022, 15, 447-458.	1.5	4
64	Derivation of a simple microsatellite locus from a compound ancestor in the genus <i>Mus</i> . <i>Mammalian Genome</i> , 2000, 11, 1117-1122.	1.0	3
65	Patterns of Historical Balancing Selection on the Salmonid Major Histocompatibility Complex Class II Beta Gene. <i>Journal of Molecular Evolution</i> , 2007, 65, 34.	0.8	3
66	Population genetics and species distribution modeling highlight conservation needs of the endemic trout from the Northern Sierra Madre Occidental. <i>Conservation Genetics</i> , 2021, 22, 629-643.	0.8	2
67	Anadromy Redux? Genetic Analysis to Inform Development of an Indigenous American River Steelhead Broodstock. <i>Journal of Fish and Wildlife Management</i> , 2019, 10, 137-147.	0.4	2
68	Growth of juvenile black rockfish ( <i>Sebastes melanops</i> ) during estuarine residence. <i>Environmental Biology of Fishes</i> , 2021, 104, 851-865.	0.4	0