

# Gary R Carvalho

## List of Publications by Year in descending order

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Version: 2024-02-01

74  
papers

9,206  
citations

66250

44  
h-index

90395

73  
g-index

79  
all docs

79  
docs citations

79  
times ranked

12104  
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental DNA provides higher resolution assessment of riverine biodiversity and ecosystem function via spatio-temporal nestedness and turnover partitioning. <i>Communications Biology</i> , 2021, 4, 512.	2.0	30
2	Comparative genetic stock structure in three species of commercially exploited Indo-Malay Carangidae (Teleostei, Perciformes). <i>Journal of Fish Biology</i> , 2020, 96, 337-349.	0.7	15
3	Executing multi-taxa eDNA ecological assessment via traditional metrics and interactive networks. <i>Science of the Total Environment</i> , 2020, 729, 138801.	3.9	51
4	Performance of amplicon and shotgun sequencing for accurate biomass estimation in invertebrate community samples. <i>Molecular Ecology Resources</i> , 2018, 18, 1020-1034.	2.2	104
5	Stepping stones to isolation: Impacts of a changing climate on the connectivity of fragmented fish populations. <i>Evolutionary Applications</i> , 2018, 11, 978-994.	1.5	18
6	Acidity promotes degradation of multi-species environmental DNA in lotic mesocosms. <i>Communications Biology</i> , 2018, 1, 4.	2.0	219
7	Annual time-series analysis of aqueous eDNA reveals ecologically relevant dynamics of lake ecosystem biodiversity. <i>Nature Communications</i> , 2017, 8, 14087.	5.8	229
8	Recommendations for developing and applying genetic tools to assess and manage biological invasions in marine ecosystems. <i>Marine Policy</i> , 2017, 85, 54-64.	1.5	74
9	Plio-Pleistocene phylogeography of the Southeast Asian Blue Panchax killifish, <i>Aplocheilichthys panchax</i> . <i>PLoS ONE</i> , 2017, 12, e0179557.	1.1	22
10	No loss of genetic diversity in the exploited and recently collapsed population of Bay of Biscay anchovy ( <i>Engraulis encrasicolus</i> , L.). <i>Marine Biology</i> , 2016, 163, 1.	0.7	14
11	Population-level consequences for wild fish exposed to sublethal concentrations of chemicals – a critical review. <i>Fish and Fisheries</i> , 2016, 17, 545-566.	2.7	119
12	Gene-associated markers can assign origin in a weakly structured fish, Atlantic herring. <i>ICES Journal of Marine Science</i> , 2015, 72, 1790-1801.	1.2	50
13	Oceanography and life history predict contrasting genetic population structure in two Antarctic fish species. <i>Evolutionary Applications</i> , 2015, 8, 486-509.	1.5	46
14	Fish Product Mislabeling: Failings of Traceability in the Production Chain and Implications for Illegal, Unreported and Unregulated (IUU) Fishing. <i>PLoS ONE</i> , 2014, 9, e98691.	1.1	128
15	Combination of genetics and spatial modelling highlights the sensitivity of cod ( <i>Gadus morhua</i> ) population diversity in the North Sea to distributions of fishing. <i>ICES Journal of Marine Science</i> , 2014, 71, 794-807.	1.2	45
16	A reliable DNA barcode reference library for the identification of the North European shelf fish fauna. <i>Molecular Ecology Resources</i> , 2014, 14, 1060-1071.	2.2	93
17	Environmental DNA for wildlife biology and biodiversity monitoring. <i>Trends in Ecology and Evolution</i> , 2014, 29, 358-367.	4.2	920
18	Outlier SNP markers reveal fine-scale genetic structuring across European hake populations ( <i>Merluccius merluccius</i> ). <i>Molecular Ecology</i> , 2014, 23, 118-135.	2.0	171

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19	Metagenetic analysis of patterns of distribution and diversity of marine meiobenthic eukaryotes. <i>Global Ecology and Biogeography</i> , 2014, 23, 1293-1302.	2.7	96
20	Borneo and Indochina are Major Evolutionary Hotspots for Southeast Asian Biodiversity. <i>Systematic Biology</i> , 2014, 63, 879-901.	2.7	283
21	Investigating the molecular systematic relationships amongst selected <i>Plesionika</i> ( <i>Decapoda: Pandalidae</i> ) from the Northeast Atlantic and Mediterranean. <i>Marine Ecology</i> , 2013, 34, 157-170.	0.4	14
22	Paleo-Drainage Basin Connectivity Predicts Evolutionary Relationships across Three Southeast Asian Biodiversity Hotspots. <i>Systematic Biology</i> , 2013, 62, 398-410.	2.7	78
23	Experimental harvesting of fish populations drives genetically based shifts in body size and maturation. <i>Frontiers in Ecology and the Environment</i> , 2013, 11, 181-187.	1.9	93
24	A genomic island linked to ecotype divergence in Atlantic cod. <i>Molecular Ecology</i> , 2013, 22, 2653-2667.	2.0	137
25	Population genetics provides new insights into biomarker prevalence in dab ( <i>Limanda limanda</i> ). <i>Journal of Heredity</i> , 2013, 104, 891-909.	0.784314	15
26	SNP Discovery in European Anchovy ( <i>Engraulis encrasicolus</i> , L) by High-Throughput Transcriptome and Genome Sequencing. <i>PLoS ONE</i> , 2013, 8, e70051.	1.1	38
27	Gene-associated markers provide tools for tackling illegal fishing and false eco-certification. <i>Nature Communications</i> , 2012, 3, 851.	5.8	199
28	DNA Barcoding Reveals Cryptic Diversity within Commercially Exploited Indo-Malay Carangidae (Teleostei: Perciformes). <i>PLoS ONE</i> , 2012, 7, e49623.	1.1	74
29	A Ranking System for Reference Libraries of DNA Barcodes: Application to Marine Fish Species from Portugal. <i>PLoS ONE</i> , 2012, 7, e35858.	1.1	89
30	SNP Discovery Using Next Generation Transcriptomic Sequencing in Atlantic Herring ( <i>Clupea harengus</i> ). <i>Journal of Heredity</i> , 2012, 103, 50-53.	1.1	53
31	Environmental selection on transcriptome-derived SNPs in a high gene flow marine fish, the Atlantic herring ( <i>Clupea harengus</i> ). <i>Molecular Ecology</i> , 2012, 21, 3686-3703.	2.0	205
32	Biogeography of the Indo-Australian Archipelago. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2011, 42, 205-226.	3.8	400
33	Novel Tools for Conservation Genomics: Comparing Two High-Throughput Approaches for SNP Discovery in the Transcriptome of the European Hake. <i>PLoS ONE</i> , 2011, 6, e28008.	1.1	59
34	Anonymous nuclear markers for halfbeak fishes of the genus <i>Hemirhamphodon</i> . <i>Conservation Genetics Resources</i> , 2011, 3, 155-157.	0.4	2
35	Systematic and Evolutionary Insights Derived from mtDNA COI Barcode Diversity in the Decapoda (Crustacea: Malacostraca). <i>PLoS ONE</i> , 2011, 6, e19449.	1.1	139
36	Multigene Molecular Systematics Confirm Species Status of Morphologically Convergent Pagurus Hermit Crabs. <i>PLoS ONE</i> , 2011, 6, e28233.	1.1	22

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37	Anonymous nuclear markers for SouthEast Asian halfbeak fishes (Dermogenys). Conservation Genetics Resources, 2010, 2, 325-327.	0.4	4
38	New insights into molecular evolution: prospects from the Barcode of Life Initiative (BOLI). Theory in Biosciences, 2010, 129, 149-157.	0.6	22
39	Second-generation environmental sequencing unmask marine metazoan biodiversity. Nature Communications, 2010, 1, 98.	5.8	321
40	Genomic signatures of local directional selection in a high gene flow marine organism; the Atlantic cod (Gadus morhua). BMC Evolutionary Biology, 2009, 9, 276.	3.2	198
41	DISENTANGLING THE EFFECTS OF EVOLUTIONARY, DEMOGRAPHIC, AND ENVIRONMENTAL FACTORS INFLUENCING GENETIC STRUCTURE OF NATURAL POPULATIONS: ATLANTIC HERRING AS A CASE STUDY. Evolution; International Journal of Organic Evolution, 2009, 63, 2939-2951.	1.1	183
42	Molecular phylogeny supports division of the "cosmopolitan" taxon Celleporella (Bryozoa; Tj ETQq0 0 0 rgBT, /Overlock 10 Tf 50 5	1.2	19
43	Genetic homogeneity among breeding grounds and nursery areas of an exploited Lake Malawi cichlid fish. Freshwater Biology, 2008, 53, 1823-1831.	1.2	10
44	Paradigm shifts in marine fisheries genetics: ugly hypotheses slain by beautiful facts. Fish and Fisheries, 2008, 9, 333-362.	2.7	492
45	The Barcode of Life Initiative: synopsis and prospective societal impacts of DNA barcoding of Fish. Genomics Society and Policy, 2007, 3, 1.	0.2	61
46	Age of Cichlids: New Dates for Ancient Lake Fish Radiations. Molecular Biology and Evolution, 2007, 24, 1269-1282.	3.5	268
47	Mating trials validate the use of DNA barcoding to reveal cryptic speciation of a marine bryozoan taxon. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 199-207.	1.2	96
48	Validation of the barcoding gene COI for use in forensic genetic species identification. Forensic Science International, 2007, 173, 1-6.	1.3	278
49	Concordance of allozyme and microsatellite differentiation in a marine fish, but evidence of selection at a microsatellite locus. Molecular Ecology, 2007, 16, 1135-1147.	2.0	68
50	Mitochondrial DNA phylogeography and mating compatibility reveal marked genetic structuring and speciation in the NE Atlantic bryozoan Celleporella hyalina. Molecular Ecology, 2007, 16, 2173-2188.	2.0	49
51	Association between Growth andPan I*Genotype within Atlantic Cod Full-Sibling Families. Transactions of the American Fisheries Society, 2006, 135, 241-250.	0.6	33
52	Power for detecting genetic divergence: differences between statistical methods and marker loci. Molecular Ecology, 2006, 15, 2031-2045.	2.0	215
53	Biocomplexity in a highly migratory pelagic marine fish, Atlantic herring. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 1459-1464.	1.2	205
54	ENVIRONMENTAL CORRELATES OF POPULATION DIFFERENTIATION IN ATLANTIC HERRING. Evolution; International Journal of Organic Evolution, 2005, 59, 2656-2668.	1.1	537

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55	Environmental correlates of population differentiation in Atlantic herring. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 2656-68.	1.1	36
56	Temporal analysis of archived samples indicates marked genetic changes in declining North Sea cod ( <i>Gadus morhua</i> ). <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 2656-68.	1.2	206
57	Loss of microsatellite diversity and low effective population size in an overexploited population of New Zealand snapper ( <i>Pagrus auratus</i> ). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 11742-11747.	3.3	441
58	SPECIATION IN ANCIENT CRYPTIC SPECIES COMPLEXES: EVIDENCE FROM THE MOLECULAR PHYLOGENY OF <i>BRACHIONUS Plicatilis</i> (ROTIFERA). <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 1431-1444.	1.1	331
59	Title is missing!. <i>Journal of Paleolimnology</i> , 2002, 27, 481-486.	0.8	10
60	Phylogeography and regional endemism of a passively dispersing zooplankter: mitochondrial DNA variation in rotifer resting egg banks. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000, 267, 2189-2197.	1.2	134
61	Molecular markers and the species concept: New techniques to resolve old disputes?. <i>Reviews in Fish Biology and Fisheries</i> , 1999, 9, 379-382.	2.4	14
62	Molecular Genetic Analysis of Atlanto-Scandian Herring ( <i>Clupea harengus</i> ) Populations Using Allozymes and Mitochondrial Dna Markers. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 1998, 78, 269-283.	0.4	42
63	Advances in the molecular analysis of fish population structure. <i>Italian Journal of Zoology</i> , 1998, 65, 21-33.	0.6	74
64	Sex Ratio Variation in the Intertidal Isopod, <i>Jaera albifrons</i> . <i>Journal of the Marine Biological Association of the United Kingdom</i> , 1996, 76, 825-828.	0.4	6
65	Artificial introductions, evolutionary change and population differentiation in Trinidadian guppies ( <i>Poecilia reticulata</i> : Poeciliidae). <i>Biological Journal of the Linnean Society</i> , 1996, 57, 219-234.	0.7	37
66	Detection of High Levels of Genetic Relatedness in Rock-Populations of an Intertidal Isopod Using DNA Fingerprinting. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 1995, 75, 967-976.	0.4	6
67	Genetic impacts of fish introductions: a perspective on African lakes. , 1995, , 457-493.		8
68	Evolution of adaptive variation in antipredator behaviour. <i>Marine and Freshwater Behaviour and Physiology</i> , 1993, 23, 29-44.	0.9	43
69	Resting eggs of lake- <i>Daphnia</i> I. Distribution, abundance and hatching of eggs collected from various depths in lake sediments. <i>Freshwater Biology</i> , 1989, 22, 459-470.	1.2	125
70	Resting eggs of lake- <i>Daphnia</i> II. In situ observations on the hatching of eggs and their contribution to population and community structure. <i>Freshwater Biology</i> , 1989, 22, 471-478.	1.2	86
71	Haemoglobin synthesis in <i>Daphnia magna</i> Straus (Crustacea: Cladocera): ecological differentiation between neighbouring populations. <i>Freshwater Biology</i> , 1984, 14, 501-506.	1.2	16
72	The effect of food availability, female culture-density and photoperiod on ephippia production in <i>Daphnia magna</i> Straus (Crustacea: Cladocera). <i>Freshwater Biology</i> , 1983, 13, 37-46.	1.2	167

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73	Patterns of self compatibility, inbreeding depression, outcrossing, and sex allocation in a marine bryozoan suggest the predominating influence of sperm competition. <i>Biological Journal of the Linnean Society</i> , 0, 98, 519-531.	0.7	11
74	Molecular biogeography and phylogeography of the freshwater fauna of the Indo-Australian Archipelago. , 0, , 316-347.		5