

Gary R Carvalho

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

9,206
citations

57758

44
h-index

79698

73
g-index

79
all docs

79
docs citations

79
times ranked

10858
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental DNA for wildlife biology and biodiversity monitoring. <i>Trends in Ecology and Evolution</i> , 2014, 29, 358-367.	8.7	920
2	ENVIRONMENTAL CORRELATES OF POPULATION DIFFERENTIATION IN ATLANTIC HERRING. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 2656-2668.	2.3	537
3	Paradigm shifts in marine fisheries genetics: ugly hypotheses slain by beautiful facts. <i>Fish and Fisheries</i> , 2008, 9, 333-362.	5.3	492
4	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.	7.1	441
5	Biogeography of the Indo-Australian Archipelago. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2011, 42, 205-226.	8.3	400
6	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.	2.3	331
7	Second-generation environmental sequencing unmasks marine metazoan biodiversity. <i>Nature Communications</i> , 2010, 1, 98.	12.8	321
8	Borneo and Indochina are Major Evolutionary Hotspots for Southeast Asian Biodiversity. <i>Systematic Biology</i> , 2014, 63, 879-901.	5.6	283
9	Validation of the barcoding gene COI for use in forensic genetic species identification. <i>Forensic Science International</i> , 2007, 173, 1-6.	2.2	278
10	Age of Cichlids: New Dates for Ancient Lake Fish Radiations. <i>Molecular Biology and Evolution</i> , 2007, 24, 1269-1282.	8.9	268
11	Annual time-series analysis of aqueous eDNA reveals ecologically relevant dynamics of lake ecosystem biodiversity. <i>Nature Communications</i> , 2017, 8, 14087.	12.8	229
12	Acidity promotes degradation of multi-species environmental DNA in lotic mesocosms. <i>Communications Biology</i> , 2018, 1, 4.	4.4	219
13	Power for detecting genetic divergence: differences between statistical methods and marker loci. <i>Molecular Ecology</i> , 2006, 15, 2031-2045.	3.9	215
14	Temporal analysis of archived samples indicates marked genetic changes in declining North Sea cod (<i>Gadus morhua</i>). <i>Evolution</i> , 2007, 61, 1000-1006.	2.8	206
15	Biocomplexity in a highly migratory pelagic marine fish, Atlantic herring. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 1459-1464.	2.6	205
16	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.	3.9	205
17	Gene-associated markers provide tools for tackling illegal fishing and false eco-certification. <i>Nature Communications</i> , 2012, 3, 851.	12.8	199
18	Genomic signatures of local directional selection in a high gene flow marine organism; the Atlantic cod (<i>Gadus morhua</i>). <i>BMC Evolutionary Biology</i> , 2009, 9, 276.	3.2	198

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19	DISENTANGLING THE EFFECTS OF EVOLUTIONARY, DEMOGRAPHIC, AND ENVIRONMENTAL FACTORS INFLUENCING GENETIC STRUCTURE OF NATURAL POPULATIONS: ATLANTIC HERRING AS A CASE STUDY. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 2939-2951.	2.3	183
20	Outlier <i>SNP</i> markers reveal fine-scale genetic structuring across European hake populations (<i>Merluccius merluccius</i>). <i>Molecular Ecology</i> , 2014, 23, 118-135.	3.9	171
21	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.	2.4	167
22	Systematic and Evolutionary Insights Derived from mtDNA COI Barcode Diversity in the Decapoda (Crustacea: Malacostraca). <i>PLoS ONE</i> , 2011, 6, e19449.	2.5	139
23	A genomic island linked to ecotype divergence in Atlantic cod. <i>Molecular Ecology</i> , 2013, 22, 2653-2667.	3.9	137
24	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.	2.6	134
25	Fish Product Mislabelling: Failings of Traceability in the Production Chain and Implications for Illegal, Unreported and Unregulated (IUU) Fishing. <i>PLoS ONE</i> , 2014, 9, e98691.	2.5	128
26	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.	2.4	125
27	Population-level consequences for wild fish exposed to sublethal concentrations of chemicals – a critical review. <i>Fish and Fisheries</i> , 2016, 17, 545-566.	5.3	119
28	Performance of amplicon and shotgun sequencing for accurate biomass estimation in invertebrate community samples. <i>Molecular Ecology Resources</i> , 2018, 18, 1020-1034.	4.8	104
29	Mating trials validate the use of DNA barcoding to reveal cryptic speciation of a marine bryozoan taxon. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 199-207.	2.6	96
30	Metagenetic analysis of patterns of distribution and diversity of marine meiobenthic eukaryotes. <i>Global Ecology and Biogeography</i> , 2014, 23, 1293-1302.	5.8	96
31	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.	4.0	93
32	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.	4.8	93
33	A Ranking System for Reference Libraries of DNA Barcodes: Application to Marine Fish Species from Portugal. <i>PLoS ONE</i> , 2012, 7, e35858.	2.5	89
34	Resting eggs of lake-Daphnia 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.	2.4	86
35	Paleo-Drainage Basin Connectivity Predicts Evolutionary Relationships across Three Southeast Asian Biodiversity Hotspots. <i>Systematic Biology</i> , 2013, 62, 398-410.	5.6	78
36	Advances in the molecular analysis of fish population structure. <i>Italian Journal of Zoology</i> , 1998, 65, 21-33.	0.6	74

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37	DNA Barcoding Reveals Cryptic Diversity within Commercially Exploited Indo-Malay Carangidae (Teleostei: Perciformes). PLoS ONE, 2012, 7, e49623.	2.5	74
38	Recommendations for developing and applying genetic tools to assess and manage biological invasions in marine ecosystems. Marine Policy, 2017, 85, 54-64.	3.2	74
39	Concordance of allozyme and microsatellite differentiation in a marine fish, but evidence of selection at a microsatellite locus. Molecular Ecology, 2007, 16, 1135-1147.	3.9	68
40	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
41	Novel Tools for Conservation Genomics: Comparing Two High-Throughput Approaches for SNP Discovery in the Transcriptome of the European Hake. PLoS ONE, 2011, 6, e28008.	2.5	59
42	SNP Discovery Using Next Generation Transcriptomic Sequencing in Atlantic Herring (<i>Clupea</i>) Tj ETQq0 0 0 rgBT /Oyerlock 10 Tf 50 542	2.5	53
43	Executing multi-taxa eDNA ecological assessment via traditional metrics and interactive networks. Science of the Total Environment, 2020, 729, 138801.	8.0	51
44	Gene-associated markers can assign origin in a weakly structured fish, Atlantic herring. ICES Journal of Marine Science, 2015, 72, 1790-1801.	2.5	50
45	Mitochondrial DNA phylogeography and mating compatibility reveal marked genetic structuring and speciation in the NE Atlantic bryozoan <i>Celleporella hyalina</i> . Molecular Ecology, 2007, 16, 2173-2188.	3.9	49
46	Oceanography and life history predict contrasting genetic population structure in two antarctic fish species. Evolutionary Applications, 2015, 8, 486-509.	3.1	46
47	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. ICES Journal of Marine Science, 2014, 71, 794-807.	2.5	45
48	Evolution of adaptive variation in antipredator behaviour. Marine and Freshwater Behaviour and Physiology, 1993, 23, 29-44.	0.9	43
49	Molecular Genetic Analysis of Atlanto-Scandian Herring (<i>Clupea harengus</i>) Populations Using Allozymes and Mitochondrial Dna Markers. Journal of the Marine Biological Association of the United Kingdom, 1998, 78, 269-283.	0.8	42
50	SNP Discovery in European Anchovy (<i>Engraulis encrasicolus</i> , L) by High-Throughput Transcriptome and Genome Sequencing. PLoS ONE, 2013, 8, e70051.	2.5	38
51	Artificial introductions, evolutionary change and population differentiation in Trinidadian guppies (<i>Poecilia reticulata</i> : Poeciliidae). Biological Journal of the Linnean Society, 1996, 57, 219-234.	1.6	37
52	Environmental correlates of population differentiation in Atlantic herring. Evolution; International Journal of Organic Evolution, 2005, 59, 2656-68.	2.3	36
53	Association between Growth andPan I*Genotype within Atlantic Cod Full-Sibling Families. Transactions of the American Fisheries Society, 2006, 135, 241-250.	1.4	33
54	Environmental DNA provides higher resolution assessment of riverine biodiversity and ecosystem function via spatio-temporal nestedness and turnover partitioning. Communications Biology, 2021, 4, 512.	4.4	30

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55	New insights into molecular evolution: prospects from the Barcode of Life Initiative (BOLI). <i>Theory in Biosciences</i> , 2010, 129, 149-157.	1.4	22
56	Plio-Pleistocene phylogeography of the Southeast Asian Blue Panchax killifish, <i>Aplocheilus panchax</i> . <i>PLoS ONE</i> , 2017, 12, e0179557.	2.5	22
57	Multigene Molecular Systematics Confirm Species Status of Morphologically Convergent <i>Pagurus</i> Hermit Crabs. <i>PLoS ONE</i> , 2011, 6, e28233.	2.5	22
58	Molecular phylogeny supports division of the "cosmopolitan" taxon <i>Celleporella</i> (Bryozoa;). <i>TJ ETQq0 0 0 rgBT /Overlock 10 Tf 50 6</i>	2.7	19
59	Stepping stones to isolation: Impacts of a changing climate on the connectivity of fragmented fish populations. <i>Evolutionary Applications</i> , 2018, 11, 978-994.	3.1	18
60	Haemoglobin synthesis in <i>Daphnia magna</i> Straus (Crustacea: Cladocera): ecological differentiation between neighbouring populations. <i>Freshwater Biology</i> , 1984, 14, 501-506.	2.4	16
61	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.	1.6	15
62	Molecular markers and the species concept: New techniques to resolve old disputes?. <i>Reviews in Fish Biology and Fisheries</i> , 1999, 9, 379-382.	4.9	14
63	Investigating the molecular systematic relationships amongst selected <i>Lesionika</i> (<i>D</i> capoda: <i>P</i> andalidae) from the <i>N</i> ortheast <i>A</i> tantic and <i>M</i> editerranean <i>S</i> ea. <i>Marine Ecology</i> , 2013, 34, 157-170.	1.1	14
64	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.	1.5	14
65	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.	1.6	11
66	Title is missing!. <i>Journal of Paleolimnology</i> , 2002, 27, 481-486.	1.6	10
67	Genetic homogeneity among breeding grounds and nursery areas of an exploited Lake Malawi cichlid fish. <i>Freshwater Biology</i> , 2008, 53, 1823-1831.	2.4	10
68	Genetic impacts of fish introductions: a perspective on African lakes. , 1995, , 457-493.		8
69	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.	0.8	6
70	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.	0.8	6
71	Molecular biogeography and phylogeography of the freshwater fauna of the Indo-Australian Archipelago. , 0, , 316-347.		5
72	Population genetics provides new insights into biomarker prevalence in dab (<i>Limanda</i>). <i>TJ ETQq0 0 0 rgBT /Overlock 10 Tf 50 6</i>	3.1	5

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73	Anonymous nuclear markers for SouthEast Asian halfbeak fishes (Dermogenys). Conservation Genetics Resources, 2010, 2, 325-327.	0.8	4
74	Anonymous nuclear markers for halfbeak fishes of the genus Hemirhamphodon. Conservation Genetics Resources, 2011, 3, 155-157.	0.8	2