Gary R Carvalho

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6945728/publications.pdf

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42 papers	4,425 citations	279798 23 h-index	243625 44 g-index
47 all docs	47 docs citations	47 times ranked	6679 citing authors

#	Article	IF	Citations
1	Environmental DNA for wildlife biology and biodiversity monitoring. Trends in Ecology and Evolution, 2014, 29, 358-367.	8.7	920
2	Paradigm shifts in marine fisheries genetics: ugly hypotheses slain by beautiful facts. Fish and Fisheries, 2008, 9, 333-362.	5.3	492
3	Loss of microsatellite diversity and low effective population size in an overexploited population of New Zealand snapper (Pagrus auratus). Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11742-11747.	7.1	441
4	The biogeography of the atlantic salmon (Salmo salar) gut microbiome. ISME Journal, 2016, 10, 1280-1284.	9.8	301
5	Borneo and Indochina are Major Evolutionary Hotspots for Southeast Asian Biodiversity. Systematic Biology, 2014, 63, 879-901.	5.6	283
6	Annual time-series analysis of aqueous eDNA reveals ecologically relevant dynamics of lake ecosystem biodiversity. Nature Communications, 2017, 8, 14087.	12.8	229
7	Acidity promotes degradation of multi-species environmental DNA in lotic mesocosms. Communications Biology, 2018, 1, 4.	4.4	219
8	Gene-associated markers provide tools for tackling illegal fishing and false eco-certification. Nature Communications, 2012, 3, 851.	12.8	199
9	Fish Product Mislabelling: Failings of Traceability in the Production Chain and Implications for Illegal, Unreported and Unregulated (IUU) Fishing. PLoS ONE, 2014, 9, e98691.	2.5	128
10	Populationâ€level consequences for wild fish exposed to sublethal concentrations of chemicals â€“ a critical review. Fish and Fisheries, 2016, 17, 545-566.	5.3	119
11	Detection of introduced and resident marine species using environmental DNA metabarcoding of sediment and water. Scientific Reports, 2019, 9, 11559.	3.3	109
12	Performance of amplicon and shotgun sequencing for accurate biomass estimation in invertebrate community samples. Molecular Ecology Resources, 2018, 18, 1020-1034.	4.8	104
13	Metagenetic analysis of patterns of distribution and diversity of marine meiobenthic eukaryotes. Global Ecology and Biogeography, 2014, 23, 1293-1302.	5.8	96
14	Experimental harvesting of fish populations drives genetically based shifts in body size and maturation. Frontiers in Ecology and the Environment, 2013, 11, 181-187.	4.0	93
15	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
16	Environmental DNA size sorting and degradation experiment indicates the state of Daphnia magna mitochondrial and nuclear eDNA is subcellular. Scientific Reports, 2019, 9, 12500.	3.3	67
17	SNP Discovery Using Next Generation Transcriptomic Sequencing in Atlantic Herring (Clupea) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.5	53
18	Life in a drop: Sampling environmental DNA for marine fishery management and ecosystem monitoring. Marine Policy, 2021, 124, 104331.	3.2	52

#	Article	IF	Citations
19	Executing multi-taxa eDNA ecological assessment via traditional metrics and interactive networks. Science of the Total Environment, 2020, 729, 138801.	8.0	51
20	Phylogenomics and species delimitation for effective conservation of manta and devil rays. Molecular Ecology, 2020, 29, 4783-4796.	3.9	45
21	Animals, protists and bacteria share marine biogeographic patterns. Nature Ecology and Evolution, 2021, 5, 738-746.	7.8	36
22	Whole genome duplication and transposable element proliferation drive genome expansion in Corydoradinae catfishes. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172732.	2.6	32
23	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
24	A common garden design reveals populationâ€specific variability in potential impacts of hybridization between populations of farmed and wild Atlantic salmon, Salmo salar L.. Evolutionary Applications, 2016, 9, 435-449.	3.1	23
25	Plio-Pleistocene phylogeography of the Southeast Asian Blue Panchax killifish, Aplocheilus panchax. PLoS ONE, 2017, 12, e0179557.	2.5	22
26	Deep segregation in the open ocean: MacaronesiaÂas an evolutionary hotspot for low dispersal marine invertebrates. Molecular Ecology, 2019, 28, 1784-1800.	3.9	20
27	Molecular characterization of a marine turtle tumor epizootic, profiling external, internal and postsurgical regrowth tumors. Communications Biology, 2021, 4, 152.	4.4	20
28	Molecular sexing of African rhinoceros. Conservation Genetics, 2010, 11, 1181-1184.	1.5	18
29	Evolutionary drivers of kype size in Atlantic salmon (Salmo salar): domestication, age and genetics. Royal Society Open Science, 2019, 6, 190021.	2.4	16
30	Comparative genetic stock structure in three species of commercially exploited Indoâ€Malay Carangidae (Teleosteii, Perciformes). Journal of Fish Biology, 2020, 96, 337-349.	1.6	15
31	Demographic reconstruction from ancient DNA supports rapid extinction of the great auk. ELife, 2019, 8, .	6.0	15
32	Investigating the molecular systematic relationships amongst selected <scp>P</scp>lesionika (<scp>D</scp>ecapoda: <scp>P</scp>andalidae) from the <scp>N</scp>ortheast <scp>A</scp>tlantic and <scp>M</scp>editerranean <scp>S</scp>ea. Marine Ecology, 2013, 34, 157-170.	1.1	14
33	No loss of genetic diversity in the exploited and recently collapsed population of Bay of Biscay anchovy (Engraulis encrasicolus, L.). Marine Biology, 2016, 163, 1.	1.5	14
34	An â€›Aukwardâ€™ Tale: A Genetic Approach to Discover the Whereabouts of the Last Great Auks. Genes, 2017, 8, 164.	2.4	11
35	Does density influence relative growth performance of farm, wild and F ₁ hybrid Atlantic salmon in semi-natural and hatchery common garden conditions?. Royal Society Open Science, 2016, 3, 160152.	2.4	10
36	Epistatic regulation of growth in Atlantic salmon revealed: a QTL study performed on the domesticated-wild interface. BMC Genetics, 2020, 21, 13.	2.7	9

#	Article	IF	Citations
37	Managing human-mediated range shifts: understanding spatial, temporal and genetic variation in marine non-native species. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20210025.	4.0	8
38	Rangeâ€wide genomic data synthesis reveals transatlantic vicariance and secondary contact in Atlantic cod. Ecology and Evolution, 2018, 8, 12140-12152.	1.9	7
39	Anonymous nuclear markers for the Blue Panchax killifish (Aplocheilus panchax). Conservation Genetics Resources, 2011, 3, 53-55.	0.8	4
40	Disentangling the effects of sex, life history and genetic background in Atlantic salmon: growth, heart and liver under common garden conditions. Royal Society Open Science, 2020, 7, 200811.	2.4	4
41	Domesticationâ€induced reduction in eye size revealed in multiple common garden experiments: The case of Atlantic salmon (Salmo salarL.). Evolutionary Applications, 2021, 14, 2319-2332.	3.1	4
42	Introduction of the Evidence synthesis: article type. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180858.	2.6	3