

Cock van Oosterhout

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5102366/cock-van-oosterhout-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

117
papers

12,484
citations

37
h-index

111
g-index

134
ext. papers

14,273
ext. citations

5.9
avg, IF

6.48
L-index

#	Paper	IF	Citations
117	micro-checker: software for identifying and correcting genotyping errors in microsatellite data. <i>Molecular Ecology Notes</i> , 2004 , 4, 535-538		7911
116	Estimates of genetic differentiation measured by F(ST) do not necessarily require large sample sizes when using many SNP markers. <i>PLoS ONE</i> , 2012 , 7, e42649	3.7	261
115	Estimation and adjustment of microsatellite null alleles in nonequilibrium populations. <i>Molecular Ecology Notes</i> , 2006 , 6, 255-256		237
114	Evolutionary genomics of the cold-adapted diatom <i>Fragilariopsis cylindrus</i> . <i>Nature</i> , 2017 , 541, 536-540	50.4	226
113	Rapid transcriptional plasticity of duplicated gene clusters enables a clonally reproducing aphid to colonise diverse plant species. <i>Genome Biology</i> , 2017 , 18, 27	18.3	208
112	Temporal analysis of archived samples indicates marked genetic changes in declining North Sea cod (<i>Gadus morhua</i>). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003 , 270, 2125-32	4.4	176
111	Inbreeding depression and genetic load of sexually selected traits: how the guppy lost its spots. <i>Journal of Evolutionary Biology</i> , 2003 , 16, 273-81	2.3	121
110	Genome-wide single nucleotide polymorphisms reveal population history and adaptive divergence in wild guppies. <i>Molecular Ecology</i> , 2010 , 19, 968-84	5.7	116
109	Female preference for conspecific males based on olfactory cues in a Lake Malawi cichlid fish. <i>Biology Letters</i> , 2005 , 1, 411-4	3.6	115
108	A new theory of MHC evolution: beyond selection on the immune genes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009 , 276, 657-65	4.4	113
107	BALANCING SELECTION, RANDOM GENETIC DRIFT, AND GENETIC VARIATION AT THE MAJOR HISTOCOMPATIBILITY COMPLEX IN TWO WILD POPULATIONS OF GUPPIES (<i>POECILIA RETICULATA</i>). <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 2562-2574	3.8	111
106	BALANCING SELECTION, RANDOM GENETIC DRIFT, AND GENETIC VARIATION AT THE MAJOR HISTOCOMPATIBILITY COMPLEX IN TWO WILD POPULATIONS OF GUPPIES (<i>POECILIA RETICULATA</i>). <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 2562	3.8	103
105	Genetic population structure and contemporary dispersal patterns of a recent European invader, the Chinese mitten crab, <i>Eriocheir sinensis</i> . <i>Molecular Ecology</i> , 2007 , 16, 231-42	5.7	103
104	Multiple FLC haplotypes defined by independent cis-regulatory variation underpin life history diversity in <i>Arabidopsis thaliana</i> . <i>Genes and Development</i> , 2014 , 28, 1635-40	12.6	98
103	Population genetic analysis of microsatellite variation of guppies (<i>Poecilia reticulata</i>) in Trinidad and Tobago: evidence for a dynamic source-sink metapopulation structure, founder events and population bottlenecks. <i>Journal of Evolutionary Biology</i> , 2009 , 22, 485-97	2.3	94
102	Rapid loss of MHC class II variation in a bottlenecked population is explained by drift and loss of copy number variation. <i>Journal of Evolutionary Biology</i> , 2011 , 24, 1847-56	2.3	86
101	MHC adaptive divergence between closely related and sympatric African cichlids. <i>PLoS ONE</i> , 2007 , 2, e734	3.7	81

100	Genetic architecture and evolution of the S locus supergene in <i>Primula vulgaris</i> . <i>Nature Plants</i> , 2016 , 2, 16188	11.5	79
99	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	5.5	76
98	Effect of gyrodactylid ectoparasites on host behaviour and social network structure in guppies <i>Poecilia reticulata</i> . <i>Behavioral Ecology and Sociobiology</i> , 2011 , 65, 2219-2227	2.5	75
97	Selection by parasites in spate conditions in wild Trinidadian guppies (<i>Poecilia reticulata</i>). <i>International Journal for Parasitology</i> , 2007 , 37, 805-12	4.3	75
96	Gene conversion rapidly generates major histocompatibility complex diversity in recently founded bird populations. <i>Molecular Ecology</i> , 2011 , 20, 5213-25	5.7	71
95	Ultra-deep Illumina sequencing accurately identifies MHC class IIb alleles and provides evidence for copy number variation in the guppy (<i>Poecilia reticulata</i>). <i>Molecular Ecology Resources</i> , 2014 , 14, 753-67	8.4	69
94	The impact of parasites on the life history evolution of guppies (<i>Poecilia reticulata</i>): the effects of host size on parasite virulence. <i>International Journal for Parasitology</i> , 2007 , 37, 1449-58	4.3	65
93	Marked variation in parasite resistance between two wild populations of the Trinidadian guppy, <i>Poecilia reticulata</i> (Pisces: Poeciliidae). <i>Biological Journal of the Linnean Society</i> , 2003 , 79, 645-651	1.9	58
92	Evolutionary genomics of anthroponosis in <i>Cryptosporidium</i> . <i>Nature Microbiology</i> , 2019 , 4, 826-836	26.6	53
91	Immunogenetic novelty confers a selective advantage in host-pathogen coevolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1552-1557	11.5	53
90	Balancing selection, random genetic drift, and genetic variation at the major histocompatibility complex in two wild populations of guppies (<i>Poecilia reticulata</i>). <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 2562-74	3.8	53
89	The role of innate and acquired resistance in two natural populations of guppies (<i>Poecilia reticulata</i>) infected with the ectoparasite <i>Gyrodactylus turnbulli</i> . <i>Biological Journal of the Linnean Society</i> , 2007 , 90, 647-655	1.9	51
88	Sex-specific differences in shoaling affect parasite transmission in guppies. <i>PLoS ONE</i> , 2010 , 5, e13285	3.7	50
87	Evidence for suppression of immunity as a driver for genomic introgressions and host range expansion in races of <i>Albugo candida</i> , a generalist parasite. <i>ELife</i> , 2015 , 4,	8.9	50
86	Critical review of NGS analyses for de novo genotyping multigene families. <i>Molecular Ecology</i> , 2014 , 23, 3957-72	5.7	46
85	The guppy as a conservation model: implications of parasitism and inbreeding for reintroduction success. <i>Conservation Biology</i> , 2007 , 21, 1573-83	6	46
84	Inbreeding depression and genetic load in laboratory metapopulations of the butterfly <i>Bicyclus anynana</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2000 , 54, 218-25	3.8	45
83	Invasive cyprinid fish in Europe originate from the single introduction of an admixed source population followed by a complex pattern of spread. <i>PLoS ONE</i> , 2011 , 6, e18560	3.7	45

82	Parasite transmission in social interacting hosts: monogenean epidemics in guppies. <i>PLoS ONE</i> , 2011 , 6, e22634	3.7	40
81	Evolution of MHC class IIB in the genome of wild and ornamental guppies, <i>Poecilia reticulata</i> . <i>Heredity</i> , 2006 , 97, 111-8	3.6	37
80	Contrasting effects of acute and chronic stress on the transcriptome, epigenome, and immune response of Atlantic salmon. <i>Epigenetics</i> , 2018 , 13, 1191-1207	5.7	37
79	A Model of Genome Size Evolution for Prokaryotes in Stable and Fluctuating Environments. <i>Genome Biology and Evolution</i> , 2015 , 7, 2344-51	3.9	36
78	Adaptive phenotypic response to climate enabled by epigenetics in a K-strategy species, the fish (Rajidae). <i>Royal Society Open Science</i> , 2016 , 3, 160299	3.3	34
77	Assortative mating among Lake Malawi cichlid fish populations is not simply predictable from male nuptial colour. <i>BMC Evolutionary Biology</i> , 2009 , 9, 53	3	34
76	On the neutrality of molecular genetic markers: pedigree analysis of genetic variation in fragmented populations. <i>Molecular Ecology</i> , 2004 , 13, 1025-34	5.7	34
75	<i>Gyrodactylus pictae</i> n. sp. (Monogenea: Gyrodactylidae) from the Trinidadian swamp guppy <i>Poecilia picta</i> Regan, with a discussion on species of <i>Gyrodactylus</i> von Nordmann, 1832 and their poeciliid hosts. <i>Systematic Parasitology</i> , 2005 , 60, 159-64	1	34
74	Parasites of Trinidadian guppies: evidence for sex- and age-specific trait-mediated indirect effects of predators. <i>Ecology</i> , 2015 , 96, 489-98	4.6	32
73	HYBRIDCHECK: software for the rapid detection, visualization and dating of recombinant regions in genome sequence data. <i>Molecular Ecology Resources</i> , 2016 , 16, 534-9	8.4	31
72	Secondary contact seeds phenotypic novelty in cichlid fishes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015 , 282, 20142272	4.4	29
71	Evolutionary genetics of immunological supertypes reveals two faces of the Red Queen. <i>Nature Communications</i> , 2017 , 8, 1294	17.4	29
70	Pathogen enrichment sequencing (PenSeq) enables population genomic studies in oomycetes. <i>New Phytologist</i> , 2019 , 221, 1634-1648	9.8	28
69	<i>Albugo candida</i> race diversity, ploidy and host-associated microbes revealed using DNA sequence capture on diseased plants in the field. <i>New Phytologist</i> , 2019 , 221, 1529-1543	9.8	27
68	Optimal release strategies for captive-bred animals in reintroduction programs: Experimental infections using the guppy as a model organism. <i>Biological Conservation</i> , 2010 , 143, 35-41	6.2	26
67	Solutions for PCR, cloning and sequencing errors in population genetic analysis. <i>Conservation Genetics</i> , 2010 , 11, 1095-1097	2.6	26
66	Mixed infections and hybridisation in monogenean parasites. <i>PLoS ONE</i> , 2012 , 7, e39506	3.7	25
65	The effects of inbreeding on disease susceptibility: <i>Gyrodactylus turnbulli</i> infection of guppies, <i>Poecilia reticulata</i> . <i>Experimental Parasitology</i> , 2016 , 167, 32-7	2.1	25

64	Mendelian inheritance pattern and high mutation rates of microsatellite alleles in the diatom <i>Pseudo-nitzschia multistriata</i> . <i>Protist</i> , 2013 , 164, 89-100	2.5	22
63	Evidence for cryptic speciation in directly transmitted gyrodactylid parasites of Trinidadian guppies. <i>PLoS ONE</i> , 2015 , 10, e0117096	3.7	22
62	High variance in reproductive success generates a false signature of a genetic bottleneck in populations of constant size: a simulation study. <i>BMC Bioinformatics</i> , 2013 , 14, 309	3.6	20
61	Impact of a mouth parasite in a marine fish differs between geographical areas. <i>Biological Journal of the Linnean Society</i> , 2012 , 105, 842-852	1.9	19
60	INBREEDING DEPRESSION AND GENETIC LOAD IN LABORATORY METAPOPOPULATIONS OF THE BUTTERFLY BICYCLUS ANYNANA. <i>Evolution; International Journal of Organic Evolution</i> , 2000 , 54, 218	3.8	19
59	Divergent selection for opsin gene variation in guppy (<i>Poecilia reticulata</i>) populations of Trinidad and Tobago. <i>Heredity</i> , 2014 , 113, 381-9	3.6	18
58	Elevated mtDNA diversity in introduced populations of <i>Cynotilapia afra</i> (G�tther 1894) in Lake Malawi National Park is evidence for multiple source populations and hybridization. <i>Molecular Ecology</i> , 2009 , 18, 4380-9	5.7	18
57	Gyro-scope: an individual-based computer model to forecast gyrodactylid infections on fish hosts. <i>International Journal for Parasitology</i> , 2008 , 38, 541-8	4.3	18
56	Getting into hot water: sick guppies frequent warmer thermal conditions. <i>Oecologia</i> , 2016 , 181, 911-7	2.9	17
55	Sex-specific changes in the aphid DNA methylation landscape. <i>Molecular Ecology</i> , 2019 , 28, 4228-4241	5.7	17
54	Cryptic MHC polymorphism revealed but not explained by selection on the class IIb peptide-binding region. <i>Molecular Biology and Evolution</i> , 2012 , 29, 1631-44	8.3	17
53	A complex resistance locus in <i>Solanum americanum</i> recognizes a conserved <i>Phytophthora</i> effector. <i>Nature Plants</i> , 2021 , 7, 198-208	11.5	17
52	Immigrant reproductive dysfunction facilitates ecological speciation. <i>Evolution; International Journal of Organic Evolution</i> , 2017 , 71, 2510-2521	3.8	16
51	A further cost for the sicker sex? Evidence for male-biased parasite-induced vulnerability to predation. <i>Ecology and Evolution</i> , 2016 , 6, 2506-15	2.8	16
50	Toll-like receptor variation in the bottlenecked population of the endangered Seychelles warbler. <i>Animal Conservation</i> , 2017 , 20, 235-250	3.2	14
49	Experimental infections with the tropical monogenean, <i>Gyrodactylus bullatarudis</i> : potential invader or experimental fluke?. <i>Parasitology International</i> , 2009 , 58, 249-54	2.1	14
48	Biocontrol of common carp in Australia poses risks to biosecurity. <i>Nature Ecology and Evolution</i> , 2017 , 1, 87	12.3	13
47	Human induced stepping-stone colonisation of an admixed founder population: the spread of topmouth gudgeon (<i>Pseudorasbora parva</i>) in Europe. <i>Aquatic Sciences</i> , 2015 , 77, 17-25	2.5	12

46	Mutation load is the spectre of species conservation. <i>Nature Ecology and Evolution</i> , 2020 , 4, 1004-1006	12.3	12
45	On the Ecology and Host Relationships of <i>Acanthogyrus</i> (<i>Acanthosentis</i>) <i>tilapiae</i> (<i>Acanthocephala</i> : <i>Quadrigyridae</i>) from Cichlids in Lake Malawi. <i>Comparative Parasitology</i> , 2008 , 75, 278-282	0.3	12
44	The effect of extrinsic mortality on genome size evolution in prokaryotes. <i>ISME Journal</i> , 2017 , 11, 1011-1018	10.9	11
43	Toll-like receptor variation in the bottlenecked population of the Seychelles warbler: computer simulations see the ghost of selection past and quantify the drift debt. <i>Journal of Evolutionary Biology</i> , 2017 , 30, 1276-1287	2.3	11
42	The effects of recombination, mutation and selection on the evolution of the Rp1 resistance genes in grasses. <i>Molecular Ecology</i> , 2015 , 24, 3077-92	5.7	11
41	Inference of selection based on temporal genetic differentiation in the study of highly polymorphic multigene families. <i>PLoS ONE</i> , 2012 , 7, e42119	3.7	11
40	Can parasites use predators to spread between primary hosts?. <i>Parasitology</i> , 2013 , 140, 1138-43	2.7	11
39	Trans-species polymorphism, HLA-disease associations and the evolution of the MHC. <i>Communicative and Integrative Biology</i> , 2009 , 2, 408-10	1.7	11
38	Female guppies (<i>Poecilia reticulata</i>) show no preference for conspecific chemosensory cues in the field or an artificial flow chamber. <i>Behaviour</i> , 2008 , 145, 1329-1346	1.4	11
37	Chromosome-Scale Genome Assemblies of Aphids Reveal Extensively Rearranged Autosomes and Long-Term Conservation of the X Chromosome. <i>Molecular Biology and Evolution</i> , 2021 , 38, 856-875	8.3	11
36	The MC1R gene in the guppy (<i>Poecilia reticulata</i>): Genotypic and phenotypic polymorphisms. <i>BMC Research Notes</i> , 2011 , 4, 31	2.3	10
35	Entering uncharted waters: Long-term dynamics of two data limited fish species, turbot and brill, in the North Sea. <i>Journal of Sea Research</i> , 2013 , 84, 87-95	1.9	9
34	Building a locally diploid genome and transcriptome of the diatom <i>Fragilariopsis cylindrus</i> . <i>Scientific Data</i> , 2017 , 4, 170149	8.2	8
33	Avian defensin variation in bottlenecked populations: the Seychelles warbler and other congeners. <i>Conservation Genetics</i> , 2016 , 17, 661-674	2.6	8
32	Wondering about wandering whiting: Distribution of North Sea whiting between the 1920s and 2000s. <i>Fisheries Research</i> , 2013 , 145, 54-65	2.3	8
31	Pedigree analysis on small laboratory populations of the butterfly <i>Bicyclus anynana</i> : The effects of selection on inbreeding and fitness. <i>Conservation Genetics</i> , 2000 , 1, 321-328	2.6	8
30	Genetic load: genomic estimates and applications in non-model animals.. <i>Nature Reviews Genetics</i> , 2022 ,	30.1	8
29	A complex resistance locus in <i>Solanum americanum</i> recognizes a conserved <i>Phytophthora</i> effector		8

28	Long-term cleaning patterns of the sharknose goby (<i>Elacatinus evelynae</i>). <i>Coral Reefs</i> , 2019 , 38, 321-330.	4.2	7
27	Parasite diversity and ecology in a model species, the guppy (<i>Poecilia reticulata</i>) in Trinidad. <i>Royal Society Open Science</i> , 2020 , 7, 191112	3.3	7
26	Segregation of species-specific male attractiveness in F ₂ hybrid lake Malawi cichlid fish. <i>International Journal of Evolutionary Biology</i> , 2011 , 2011, 426179		7
25	Parasites pitched against nature: Pitch Lake water protects guppies (<i>Poecilia reticulata</i>) from microbial and gyrodactylid infections. <i>Parasitology</i> , 2012 , 139, 1772-9	2.7	7
24	Mitotic recombination between homologous chromosomes drives genomic diversity in diatoms. <i>Current Biology</i> , 2021 , 31, 3221-3232.e9	6.3	7
23	Hybridization generates a hopeful monster: a hermaphroditic selfing cichlid. <i>Royal Society Open Science</i> , 2016 , 3, 150684	3.3	6
22	The effects of historical fragmentation on major histocompatibility complex class II and microsatellite variation in the Aegean island reptile. <i>Ecology and Evolution</i> , 2017 , 7, 4568-4581	2.8	6
21	Maintenance of major histocompatibility supertype variation in selfing vertebrate is no evidence for overdominant selection. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013 , 280, 20122501	4.4	6
20	First polymorphic microsatellites for the gyrodactylids (Monogenea), an important group of fish pathogens. <i>Conservation Genetics Resources</i> , 2011 , 3, 177-180	0.8	6
19	<i>Astiotrema turneri</i> n. sp. (Digenea: Plagiorchiidae) from cichlid fishes (Cichlidae: Perciformes) of Lake Malawi, south-eastern Africa. <i>Zootaxa</i> , 2006 , 1319, 43	0.5	6
18	Mismatch between molecular (mtDNA) and morphological classification of <i>Macrobrachium</i> prawns from Southern Nigeria: Cryptic freshwater species and brackish water morphotypes. <i>Aquaculture</i> , 2013 , 410-411, 25-31	4.4	4
17	Comment on "Individual heterozygosity predicts translocation success in threatened desert tortoises". <i>Science</i> , 2021 , 372,	33.3	4
16	Depletion of MHC supertype during domestication can compromise immunocompetence. <i>Molecular Ecology</i> , 2021 , 30, 736-746	5.7	4
15	Comparative genomics revealed adaptive admixture in in Africa. <i>Microbial Genomics</i> , 2021 , 7,	4.4	4
14	Upstream guppies (<i>Poecilia reticulata</i> , Peters, 1859) go against the flow. <i>Biota Neotropica</i> , 2012 , 12, 68-72		3
13	Population constraints on the Grenada Dove <i>Leptotila wellsi</i> : preliminary findings and proposals from south-west Grenada. <i>Bird Conservation International</i> , 2016 , 26, 205-213	1.7	2
12	Conservation genetics: 50 Years and counting. <i>Conservation Letters</i> , 2021 , 14, e12789	6.9	2
11	Genome evolution of a nonparasitic secondary heterotroph, the diatom .. <i>Science Advances</i> , 2022 , 8, eabi5075	5.7	2

10	VIVID: a web application for variant interpretation and visualisation in multidimensional analyses		1
9	Sex-specific changes in the aphid DNA methylation landscape		1
8	Genetic variation in resistance and high fecundity impede viral biocontrol of invasive fish. <i>Journal of Applied Ecology</i> , 2021 , 58, 148-157	5.8	1
7	Diversity, prevalence, and expression of cyanase genes (cynS) in planktonic marine microorganisms. <i>ISME Journal</i> , 2021 ,	11.9	1
6	Means, motive, and opportunity for biological invasions: genetic introgression in a fungal pathogen		1
5	Position, swimming direction and group size of fin whales (<i>Balaenoptera physalus</i>) in the presence of a fast-ferry in the Bay of Biscay. <i>Oceanologia</i> , 2016 , 58, 235-240	2.2	0
4	Functional immunogenetic variation, rather than local adaptation, predicts ectoparasite infection intensity in a model fish species. <i>Molecular Ecology</i> , 2021 , 30, 5588-5604	5.7	0
3	Genomic erosion in a demographically recovered bird species during conservation rescue.. <i>Conservation Biology</i> , 2022 , e13918	6	0
2	Structure and Evolution of Diatom Nuclear Genes and Genomes 2022 , 111-145		
1	Accounting for the genetic load in assisted reproductive technology. <i>Clinical and Translational Medicine</i> , 2022 , 12,	5.7	