Diego Ayala

List of Publications by Year
in descending order

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53 papers	2,688 citations	218677 26 h-index	223800 46 g-index
61 all docs	61 docs citations	61 times ranked	2992 citing authors

#	Article	IF	Citations
1	Genetic diversity of the African malaria vector Anopheles gambiae. Nature, 2017, 552, 96-100.	27.8	288
2	Ecological niche partitioning between Anopheles gambiae molecular forms in Cameroon: the ecological side of speciation. BMC Ecology, 2009, 9, 17.	3.0	211
3	Global genetic diversity of Aedes aegypti. Molecular Ecology, 2016, 25, 5377-5395.	3.9	195
4	Living at the edge: biogeographic patterns of habitat segregation conform to speciation by niche expansion in Anopheles gambiae. BMC Ecology, 2009, 9, 16.	3.0	174
5	Carryover effects of larval exposure to different environmental bacteria drive adult trait variation in a mosquito vector. Science Advances, 2017, 3, e1700585.	10.3	172
6	Climate and Urbanization Drive Mosquito Preference for Humans. Current Biology, 2020, 30, 3570-3579.e6.	3.9	153
7	Habitat suitability and ecological niche profile of major malaria vectors in Cameroon. Malaria Journal, 2009, 8, 307.	2.3	84
8	REPRODUCTIVE ISOLATION AND LOCAL ADAPTATION QUANTIFIED FOR A CHROMOSOME INVERSION IN A MALARIA MOSQUITO. Evolution; International Journal of Organic Evolution, 2013, 67, 946-958.	2.3	84
9	Whole-genome sequencing reveals high complexity of copy number variation at insecticide resistance loci in malaria mosquitoes. Genome Research, 2019, 29, 1250-1261.	5.5	79
10	Adaptation through chromosomal inversions in Anopheles. Frontiers in Genetics, 2014, 5, 129.	2.3	75
11	Habitat segregation and ecological character displacement in cryptic African malaria mosquitoes. Evolutionary Applications, 2015, 8, 326-345.	3.1	75
12	Chromosomal Inversions, Natural Selection and Adaptation in the Malaria Vector Anopheles funestus. Molecular Biology and Evolution, 2011, 28, 745-758.	8.9	62
13	Ape malaria transmission and potential for ape-to-human transfers in Africa. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5329-5334.	7.1	59
14	Population structure of a vector of human diseases: Aedes aegypti in its ancestral range, Africa. Ecology and Evolution, 2018, 8, 7835-7848.	1.9	57
15	A new species in the major malaria vector complex sheds light on reticulated species evolution. Scientific Reports, 2019, 9, 14753.	3.3	56
16	An ace-1 gene duplication resorbs the fitness cost associated with resistance in Anopheles gambiae, the main malaria mosquito. Scientific Reports, 2015, 5, 14529.	3.3	52
17	Chromosomal and environmental determinants of morphometric variation in natural populations of the malaria vector Anopheles funestus in Cameroon. Infection, Genetics and Evolution, 2011, 11, 940-947.	2.3	51
18	Chromosome inversions and ecological plasticity in the main African malaria mosquitoes. Evolution; International Journal of Organic Evolution, 2017, 71, 686-701.	2.3	51

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19	Association mapping desiccation resistance within chromosomal inversions in the African malaria vector Anopheles gambiae. Molecular Ecology, 2019, 28, 1333-1342.	3.9	51
20	Microbial community structure reveals instability of nutritional symbiosis during the evolutionary radiation of Amblyomma ticks. Molecular Ecology, 2020, 29, 1016-1029.	3.9	48
21	Diurnal biting of malaria mosquitoes in the Central African Republic indicates residual transmission may be â€œout of controlâ€. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2104282119.	7.1	44
22	Dissecting functional components of reproductive isolation among closely related sympatric species of the Anopheles gambiae complex. Evolutionary Applications, 2017, 10, 1102-1120.	3.1	39
23	Population genomics in the arboviral vector Aedes aegypti reveals the genomic architecture and evolution of endogenous viral elements. Molecular Ecology, 2021, 30, 1594-1611.	3.9	37
24	Bat flies (Diptera: Nycteribiidae and Streblidae) infesting cave-dwelling bats in Gabon: diversity, dynamics and potential role in Polychromophilus melanipherus transmission. Parasites and Vectors, 2016, 9, 333.	2.5	36
25	Natural Wolbachia infections are common in the major malaria vectors in Central Africa. Evolutionary Applications, 2019, 12, 1583-1594.	3.1	36
26	Inversion breakpoints and the evolution of supergenes. Molecular Ecology, 2021, 30, 2738-2755.	3.9	36
27	Tracking zoonotic pathogens using blood-sucking flies as 'flying syringes'. ELife, 2017, 6, .	6.0	35
28	Population genetic structure of the malaria vector Anopheles nili in sub-Saharan Africa. Malaria Journal, 2010, 9, 161.	2.3	34
29	Advances and Perspectives in the Study of the Malaria Mosquito Anopheles funestus. , 0, , .		34
30	Population structure of the malaria vector Anopheles funestus (Diptera: Culicidae) in Madagascar and Comoros. Acta Tropica, 2006, 97, 292-300.	2.0	25
31	Discovery of Ongoing Selective Sweeps withinAnophelesMosquito Populations Using Deep Learning. Molecular Biology and Evolution, 2021, 38, 1168-1183.	8.9	25
32	In Silico Karyotyping of Chromosomally Polymorphic Malaria Mosquitoes in the Anopheles gambiae Complex. G3: Genes, Genomes, Genetics, 2019, 9, 3249-3262.	1.8	24
33	Tolerance of diseaseâ€vector mosquitoes to brackish water and their osmoregulatory ability. Ecosphere, 2019, 10, e02783.	2.2	20
34	A targeted amplicon sequencing panel to simultaneously identify mosquito species and Plasmodium presence across the entire Anopheles genus. Molecular Ecology Resources, 2022, 22, 28-44.	4.8	18
35	Larval habitat determines the bacterial and fungal microbiota of the mosquito vector Aedes aegypti. FEMS Microbiology Ecology, 2022, 98, .	2.7	17
36	Population genetic structure of the malaria vector Anopheles funestus, in a recently re-colonized area of the Senegal River basin and human-induced environmental changes. Parasites and Vectors, 2012, 5, 188.	2.5	16

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37	Genetic structure of the mosquito Aedes aegypti in local forest and domestic habitats in Gabon and Kenya. Parasites and Vectors, 2020, 13, 417.	2.5	16
38	Larval sites of the mosquito Aedes aegypti formosus in forest and domestic habitats in Africa and the potential association with oviposition evolution. Ecology and Evolution, 2021, 11, 16327-16343.	1.9	16
39	Exome-wide association study reveals largely distinct gene sets underlying specific resistance to dengue virus types 1 and 3 in Aedes aegypti. PLoS Genetics, 2020, 16, e1008794.	3.5	13
40	Exploring the diversity of blood-sucking Diptera in caves of Central Africa. Scientific Reports, 2017, 7, 250.	3.3	12
41	â€œShow me which parasites you carry and I will tell you what you eatâ€, or how to infer the trophic behavior of hematophagous arthropods feeding on wildlife. Ecology and Evolution, 2017, 7, 7578-7584.	1.9	12
42	Description of Anopheles gabonensis, a new species potentially involved in rodent malaria transmission in Gabon, Central Africa. Infection, Genetics and Evolution, 2014, 28, 628-634.	2.3	11
43	The origin of island populations of the African malaria mosquito, Anopheles coluzzii. Communications Biology, 2021, 4, 630.	4.4	7
44	Ecological plasticity to ions concentration determines genetic response and dominance of Anopheles coluzzii larvae in urban coastal habitats of Central Africa. Scientific Reports, 2021, 11, 15781.	3.3	7
45	Transposable element variants and their potential adaptive impact in urban populations of the malaria vector Anopheles coluzzii. Genome Research, 2022, 32, 189-202.	5.5	5
46	A molecular study of the genus Spelaeomyia (Diptera: Phlebotominae) with description of the male of Spelaeomyia moucheti. Parasites and Vectors, 2016, 9, 367.	2.5	3
47	Intraspecific Transcriptome Variation and Sex-Biased Expression in Anopheles arabiensis. Genome Biology and Evolution, 2021, 13, .	2.5	3
48	Experimental infections with Zika virus strains reveal high vector competence of Aedes albopictus and Aedes aegypti populations from Gabon (Central Africa) for the African virus lineage. Emerging Microbes and Infections, 2021, 10, 1244-1253.	6.5	1
49	Chapitre 10. Les anophÃ¨les (DipteraÂ: CulicidaeÂ: Anophelinae). , 2017, , 181-241.		1
50	Title is missing!. , 2020, 16, e1008794.		0
51	Title is missing!. , 2020, 16, e1008794.		0
52	Title is missing!. , 2020, 16, e1008794.		0
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