William C Black

List of Publications by Year
in descending order

75 papers	4,530 citations	136740 32 h-index	118652 62 g-index
78 all docs	78 docs citations	78 times ranked	4628 citing authors

#	Article	IF	Citations
1	Permethrin Resistance Status and Associated Mechanisms in Aedes albopictus (Diptera: Culicidae) From Chiapas, Mexico. Journal of Medical Entomology, 2021, 58, 739-748.	0.9	3
2	The Genetic Basis for Salivary Gland Barriers to Arboviral Transmission. Insects, 2021, 12, 73.	1.0	22
3	From Global to Localâ€"New Insights into Features of Pyrethroid Detoxification in Vector Mosquitoes. Insects, 2021, 12, 276.	1.0	12
4	Aedes aegypti miRNA-33 modulates permethrin induced toxicity by regulating VGSC transcripts. Scientific Reports, 2021, 11, 7301.	1.6	3
5	Nootkatone Is an Effective Repellent against Aedes aegypti and Aedes albopictus. Insects, 2021, 12, 386.	1.0	12
6	Permethrin resistance in Aedes aegypti: Genomic variants that confer knockdown resistance, recovery, and death. PLoS Genetics, 2021, 17, e1009606.	1.5	14
7	Insecticide resistance in Aedes aegypti from Tapachula, Mexico: Spatial variation and response to historical insecticide use. PLoS Neglected Tropical Diseases, 2021, 15, e0009746.	1.3	10
8	Effect of Selection for Pyrethroid Resistance on Abiotic Stress Tolerance in Aedes aegypti from Merida, Yucatan, Mexico. Insects, 2021, 12, 124.	1.0	2
9	Mitochondrial metabolic genes provide phylogeographic relationships of global collections of Aedes aegypti (Diptera: Culicidae). PLoS ONE, 2020, 15, e0235430.	1.1	5
10	Resistance to commonly used insecticides and underlying mechanisms of resistance in Aedes aegypti (L.) from Sri Lanka. Parasites and Vectors, 2020, 13, 407.	1.0	15
11	Loss of pyrethroid resistance in newly established laboratory colonies of Aedes aegypti. PLoS Neglected Tropical Diseases, 2020, 14, e0007753.	1.3	13
12	Gene Flow Patterns among Aedes aegypti (Diptera: Culicidae) Populations in Sri Lanka. Insects, 2020, 11, 169.	1.0	4
13	Induction of RNA interference to block Zika virus replication and transmission in the mosquito Aedes aegypti. Insect Biochemistry and Molecular Biology, 2019, 111, 103169.	1.2	19
14	Vgsc-interacting proteins are genetically associated with pyrethroid resistance in Aedes aegypti. PLoS ONE, 2019, 14, e0211497.	1.1	16
15	A reverse-transcription/RNase H based protocol for depletion of mosquito ribosomal RNA facilitates viral intrahost evolution analysis, transcriptomics and pathogen discovery. Virology, 2019, 528, 181-197.	1.1	21
16	Parallel evolution of vgsc mutations at domains IS6, IIS6 and IIIS6 in pyrethroid resistant Aedes aegypti from Mexico. Scientific Reports, 2018, 8, 6747.	1.6	89
17	Improved reference genome of Aedes aegypti informs arbovirus vector control. Nature, 2018, 563, 501-507.	13.7	426
18	Sequential Infection of Aedes aegypti Mosquitoes with Chikungunya Virus and Zika Virus Enhances Early Zika Virus Transmission. Insects, 2018, 9, 177.	1.0	34

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19	First report of V1016G and S989P knockdown resistant (kdr) mutations in pyrethroid-resistant Sri Lankan Aedes aegypti mosquitoes. Parasites and Vectors, 2018, 11, 526.	1.0	33
20	Demonstration of efficient vertical and venereal transmission of dengue virus type-2 in a genetically diverse laboratory strain of Aedes aegypti. PLoS Neglected Tropical Diseases, 2018, 12, e0006754.	1.3	38
21	Variation in competence for ZIKV transmission by Aedes aegypti and Aedes albopictus in Mexico. PLoS Neglected Tropical Diseases, 2018, 12, e0006599.	1.3	36
22	The Use of Insecticide-Treated Curtains for Control of<i>Aedes aegypti</i>and Dengue Virus Transmission in â€œFraccionamientoâ€•Style Houses in MÃ©xico. Journal of Tropical Medicine, 2018, 2018, 1-22.	0.6	3
23	Population genomics reveals that an anthropophilic population of Aedes aegypti mosquitoes in West Africa recently gave rise to American and Asian populations of this major disease vector. BMC Biology, 2017, 15, 16.	1.7	96
24	Rapid and specific detection of Asian- and African-lineage Zika viruses. Science Translational Medicine, 2017, 9, .	5.8	86
25	Exon-Enriched Libraries Reveal Large Genic Differences Between <i>Aedes aegypti</i> from Senegal, West Africa, and Populations Outside Africa. G3: Genes, Genomes, Genetics, 2017, 7, 571-582.	0.8	22
26	Alternative patterns of sex chromosome differentiation in Aedes aegypti (L). BMC Genomics, 2017, 18, 943.	1.2	9
27	Insecticide resistance to permethrin and malathion and associated mechanisms in Aedes aegypti mosquitoes from St. Andrew Jamaica. PLoS ONE, 2017, 12, e0179673.	1.1	36
28	Profiles of Amino Acids and Acylcarnitines Related with Insecticide Exposure in Culex quinquefasciatus (Say). PLoS ONE, 2017, 12, e0169514.	1.1	7
29	Vector Competence of American Mosquitoes for Three Strains of Zika Virus. PLoS Neglected Tropical Diseases, 2016, 10, e0005101.	1.3	172
30	Genetic Drift during Systemic Arbovirus Infection of Mosquito Vectors Leads to Decreased Relative Fitness during Host Switching. Cell Host and Microbe, 2016, 19, 481-492.	5.1	125
31	Reproductive Incompatibility Involving Senegalese Aedes aegypti (L) Is Associated with Chromosome Rearrangements. PLoS Neglected Tropical Diseases, 2016, 10, e0004626.	1.3	21
32	Age and prior blood feeding of Anopheles gambiae influences their susceptibility and gene expression patterns to ivermectin-containing blood meals. BMC Genomics, 2015, 16, 797.	1.2	39
33	Coevolution of the Ile1,016 and Cys1,534 Mutations in the Voltage Gated Sodium Channel Gene of Aedes aegypti in Mexico. PLoS Neglected Tropical Diseases, 2015, 9, e0004263.	1.3	116
34	Characterization of the target of ivermectin, the glutamate-gated chloride channel, from<i>Anopheles gambiae</i>. Journal of Experimental Biology, 2015, 218, 1478-1486.	0.8	65
35	Assessing Insecticide Susceptibility of Laboratory<i>Lutzomyia longipalpis</i>and<i>Phlebotomus papatasi</i>Sand Flies (Diptera: Psychodidae: Phlebotominae). Journal of Medical Entomology, 2015, 52, 1003-1012.	0.9	22
36	Experimental Evolution of an RNA Virus in Wild Birds: Evidence for Host-Dependent Impacts on Population Structure and Competitive Fitness. PLoS Pathogens, 2015, 11, e1004874.	2.1	51

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37	Local Evolution of Pyrethroid Resistance Offsets Gene Flow Among Aedes aegypti Collections in Yucatan State, Mexico. American Journal of Tropical Medicine and Hygiene, 2015, 92, 201-209.	0.6	42
38	Fitness Impact and Stability of a Transgene Conferring Resistance to Dengue-2 Virus following Introgression into a Genetically Diverse Aedes aegypti Strain. PLoS Neglected Tropical Diseases, 2014, 8, e2833.	1.3	70
39	QTL Mapping of Genome Regions Controlling Temephos Resistance in Larvae of the Mosquito Aedes aegypti. PLoS Neglected Tropical Diseases, 2014, 8, e3177.	1.3	6
40	Vector Competence in West African Aedes aegypti Is Flavivirus Species and Genotype Dependent. PLoS Neglected Tropical Diseases, 2014, 8, e3153.	1.3	56
41	Susceptibility to Chlorpyrifos in Pyrethroid-Resistant Populations of<i>Aedes aegypti</i>(Diptera:) Tj ETQq1 1 0.784314 rgBT /Overlock	0.9	16
42	Differential Lymphocyte and Antibody Responses in Deer Mice Infected with Sin Nombre Hantavirus or Andes Hantavirus. Journal of Virology, 2014, 88, 8319-8331.	1.5	18
43	<i>Aedes</i>species in treeholes and fruit husks between dry and wet seasons in southeastern Senegal. Journal of Vector Ecology, 2013, 38, 237-244.	0.5	12
44	Wide Spread Cross Resistance to Pyrethroids in <I>Aedes aegypti</I> (Diptera: Culicidae) From Veracruz State Mexico. Journal of Economic Entomology, 2013, 106, 959-969.	0.8	54
45	QCal: A Software Application for the Calculation of Doseâ€“Response Curves In Insecticide Resistance Bioassays. Journal of the American Mosquito Control Association, 2012, 28, 59-61.	0.2	26
46	<i>Aedes</i>(<i>Stegomyia</i>)<i>aegypti</i>and<i>Aedes (Howardina) cozumelensis</i>in YucatÃ¡n State, MÃ©xico, with a summary of published collection records for<i>Ae. cozumelensis</i>. Journal of Vector Ecology, 2012, 37, 365-372.	0.5	7
47	Transcription of detoxification genes after permethrin selection in the mosquito <i>Aedes aegypti</i>. Insect Molecular Biology, 2012, 21, 61-77.	1.0	75
48	Why RIDL is not SIT. Trends in Parasitology, 2011, 27, 362-370.	1.5	71
49	A Linkage Map of the Asian Tiger Mosquito (Aedes albopictus) Based on cDNA Markers. Journal of Heredity, 2011, 102, 102-112.	1.0	6
50	Challenges in Estimating Insecticide Selection Pressures from Mosquito Field Data. PLoS Neglected Tropical Diseases, 2011, 5, e1387.	1.3	27
51	Gene Flow, Subspecies Composition, and Dengue Virus-2 Susceptibility among Aedes aegypti Collections in Senegal. PLoS Neglected Tropical Diseases, 2009, 3, e408.	1.3	82
52	Recent Rapid Rise of a Permethrin Knock Down Resistance Allele in Aedes aegypti in MÃ©xico. PLoS Neglected Tropical Diseases, 2009, 3, e531.	1.3	130
53	Does kdr genotype predict insecticide-resistance phenotype in mosquitoes?. Trends in Parasitology, 2009, 25, 213-219.	1.5	138
54	Mosquitoes and West Nile virus along a river corridor from prairie to montane habitats in eastern Colorado. Journal of Vector Ecology, 2009, 34, 276-293.	0.5	30

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55	Patterns of Variation in the Inhibitor of Apoptosis 1 Gene of Aedes triseriatus, a Transovarial Vector of La Crosse Virus. Journal of Molecular Evolution, 2009, 68, 403-413.	0.8	2
56	Temporal and geographic evidence for evolution of Sin Nombre virus using molecular analyses of viral RNA from Colorado, New Mexico and Montana. Virology Journal, 2009, 6, 102.	1.4	19
57	The Neovolcanic Axis Is a Barrier to Gene Flow among Aedes aegypti Populations in Mexico That Differ in Vector Competence for Dengue 2 Virus. PLoS Neglected Tropical Diseases, 2009, 3, e468.	1.3	34
58	Mosquitoes and West Nile Virus Along a River Corridor from Prairie to Montane Habitats in Eastern Colorado. Journal of Vector Ecology, 2009, 34, 276-293.	0.5	4
59	Genomic analysis of detoxification genes in the mosquito Aedes aegypti. Insect Biochemistry and Molecular Biology, 2008, 38, 113-123.	1.2	289
60	Quantitative Trait Loci Mapping of Genome Regions Controlling Permethrin Resistance in the Mosquito Aedes aegypti. Genetics, 2008, 180, 1137-1152.	1.2	75
61	The Yin and Yang of Linkage Disequilibrium: Mapping of Genes and Nucleotides Conferring Insecticide Resistance in Insect Disease Vectors. Advances in Experimental Medicine and Biology, 2008, 627, 71-83.	0.8	11
62	Spatial population genetic structure and limited dispersal in a Rocky Mountain alpine stream insect. Molecular Ecology, 2006, 15, 3553-3566.	2.0	124
63	Selection ofD2S3, anAedes aegypti(Diptera: Culicidae) Strain with High Oral Susceptibility to Dengue 2 Virus andD2MEB, a Strain with a Midgut Barrier to Dengue 2 Escape. Journal of Medical Entomology, 2005, 42, 110-119.	0.9	24
64	Learning to use Ochlerotatus is just the beginning. Journal of the American Mosquito Control Association, 2004, 20, 215-6.	0.2	8
65	Flavivirus Susceptibility in Aedes aegypti. Archives of Medical Research, 2002, 33, 379-388.	1.5	303
66	Breeding structure of Aedes aegypti populations in Mexico varies by region.. American Journal of Tropical Medicine and Hygiene, 2002, 66, 213-222.	0.6	105
67	Systematics and Biogeography of Hard Ticks, a Total Evidence Approach. Cladistics, 2000, 16, 79-102.	1.5	92
68	Linkage Analysis of Sex Determination in Bracon sp. Near hebetor (Hymenoptera: Braconidae). Genetics, 2000, 154, 205-212.	1.2	23
69	Quantitative Trait Loci That Control Vector Competence for Dengue-2 Virus in the Mosquito <i>Aedes aegypti</i>. Genetics, 2000, 156, 687-698.	1.2	166
70	Breeding structure of three snow pool Aedes mosquito species in northern Colorado. Heredity, 1998, 81, 371-380.	1.2	18
71	Taxonomic Status of Ixodes neotomae and I. spinipalpis (Acari: Ixodidae) Based on Mitochondrial DNA Evidence. Journal of Medical Entomology, 1997, 34, 696-703.	0.9	58
72	RAPD-PCR and SSCP analysis for insect population genetic studies. , 1997, , 361-373.		116

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73	Population genetics with RAPD-PCR markers: the breeding structure of Aedes aegypti in Puerto Rico. Heredity, 1996, 76, 325-334.	1.2	158
74	Population Genetics of Ixodes scapularis (Acari: Ixodidae) Based on Mitochondrial 16S and 12S Genes. Journal of Medical Entomology, 1996, 33, 78-89.	0.9	231
75	Intensive Linkage Mapping in a Wasp (<i>Bracon hebetor</i>) and a Mosquito (<i>Aedes aegypti</i>) With Single-Strand Conformation Polymorphism Analysis of Random Amplified Polymorphic DNA Markers. Genetics, 1996, 143, 1727-1738.	1.2	89