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	Improved reference genome of Aedes aegypti informs arbovirus vector control. Nature, 2018, 563, 501-507.	13.7	426
2	Flavivirus Susceptibility in Aedes aegypti. Archives of Medical Research, 2002, 33, 379-388.	1.5	303
3	Genomic analysis of detoxification genes in the mosquito Aedes aegypti. Insect Biochemistry and Molecular Biology, 2008, 38, 113-123.	1.2	289
4	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
5	Vector Competence of American Mosquitoes for Three Strains of Zika Virus. PLoS Neglected Tropical Diseases, 2016, 10, e0005101.	1.3	172
6	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
7	Population genetics with RAPD-PCR markers: the breeding structure of Aedes aegypti in Puerto Rico. Heredity, 1996, 76, 325-334.	1.2	158
8	Does kdr genotype predict insecticide-resistance phenotype in mosquitoes?. Trends in Parasitology, 2009, 25, 213-219.	1.5	138
9	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
10	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
11	Spatial population genetic structure and limited dispersal in a Rocky Mountain alpine stream insect. Molecular Ecology, 2006, 15, 3553-3566.	2.0	124
12	RAPD-PCR and SSCP analysis for insect population genetic studies. , 1997, , 361-373.		116
13	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
14	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
15	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
16	Systematics and Biogeography of Hard Ticks, a Total Evidence Approach. Cladistics, 2000, 16, 79-102.	1.5	92
17	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
18	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

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19	Rapid and specific detection of Asian- and African-lineage Zika viruses. Science Translational Medicine, 2017, 9, .	5.8	86
20	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
21	Quantitative Trait Loci Mapping of Genome Regions Controlling Permethrin Resistance in the Mosquito Aedes aegypti. Genetics, 2008, 180, 1137-1152.	1.2	75
22	Transcription of detoxification genes after permethrin selection in the mosquito <i>Aedes aegypti</i>. Insect Molecular Biology, 2012, 21, 61-77.	1.0	75
23	Why RIDL is not SIT. Trends in Parasitology, 2011, 27, 362-370.	1.5	71
24	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
25	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
26	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
27	Vector Competence in West African Aedes aegypti Is Flavivirus Species and Genotype Dependent. PLoS Neglected Tropical Diseases, 2014, 8, e3153.	1.3	56
28	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
29	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
30	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
31	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
32	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
33	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
34	Variation in competence for ZIKV transmission by Aedes aegypti and Aedes albopictus in Mexico. PLoS Neglected Tropical Diseases, 2018, 12, e0006599.	1.3	36
35	Sequential Infection of Aedes aegypti Mosquitoes with Chikungunya Virus and Zika Virus Enhances Early Zika Virus Transmission. Insects, 2018, 9, 177.	1.0	34
36	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

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37	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
38	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
39	Challenges in Estimating Insecticide Selection Pressures from Mosquito Field Data. PLoS Neglected Tropical Diseases, 2011, 5, e1387.	1.3	27
40	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
41	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
42	Linkage Analysis of Sex Determination in Bracon sp. Near hebetor (Hymenoptera: Braconidae). Genetics, 2000, 154, 205-212.	1.2	23
43	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
44	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
45	The Genetic Basis for Salivary Gland Barriers to Arboviral Transmission. Insects, 2021, 12, 73.	1.0	22
46	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
47	Reproductive Incompatibility Involving Senegalese Aedes aegypti (L) Is Associated with Chromosome Rearrangements. PLoS Neglected Tropical Diseases, 2016, 10, e0004626.	1.3	21
48	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
49	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
50	Breeding structure of three snow pool Aedes mosquito species in northern Colorado. Heredity, 1998, 81, 371-380.	1.2	18
51	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
52	Susceptibility to Chlorpyrifos in Pyrethroid-Resistant Populations of<i>Aedes aegypti</i>(Diptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.9	16
53	Vgsc-interacting proteins are genetically associated with pyrethroid resistance in Aedes aegypti. PLoS ONE, 2019, 14, e0211497.	1.1	16
54	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

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55	Permethrin resistance in Aedes aegypti: Genomic variants that confer knockdown resistance, recovery, and death. PLoS Genetics, 2021, 17, e1009606.	1.5	14
56	Loss of pyrethroid resistance in newly established laboratory colonies of Aedes aegypti. PLoS Neglected Tropical Diseases, 2020, 14, e0007753.	1.3	13
57	<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
58	From Global to Localâ€"New Insights into Features of Pyrethroid Detoxification in Vector Mosquitoes. Insects, 2021, 12, 276.	1.0	12
59	Nootkatone Is an Effective Repellent against Aedes aegypti and Aedes albopictus. Insects, 2021, 12, 386.	1.0	12
60	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
61	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
62	Alternative patterns of sex chromosome differentiation in Aedes aegypti (L). BMC Genomics, 2017, 18, 943.	1.2	9
63	Learning to use Ochlerotatus is just the beginning. Journal of the American Mosquito Control Association, 2004, 20, 215-6.	0.2	8
64	<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
65	Profiles of Amino Acids and Acylcarnitines Related with Insecticide Exposure in Culex quinquefasciatus (Say). PLoS ONE, 2017, 12, e0169514.	1.1	7
66	A Linkage Map of the Asian Tiger Mosquito (Aedes albopictus) Based on cDNA Markers. Journal of Heredity, 2011, 102, 102-112.	1.0	6
67	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
68	Mitochondrial metabolic genes provide phylogeographic relationships of global collections of Aedes aegypti (Diptera: Culicidae). PLoS ONE, 2020, 15, e0235430.	1.1	5
69	Gene Flow Patterns among Aedes aegypti (Diptera: Culicidae) Populations in Sri Lanka. Insects, 2020, 11, 169.	1.0	4
70	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
71	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
72	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

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73	Aedes aegypti miRNA-33 modulates permethrin induced toxicity by regulating VGSC transcripts. Scientific Reports, 2021, 11, 7301.	1.6	3
74	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
75	Effect of Selection for Pyrethroid Resistance on Abiotic Stress Tolerance in Aedes aegypti from Merida, Yucatan, Mexico. Insects, 2021, 12, 124.	1.0	2