Hilary Ranson

List of Publications by Year
in descending order

191 papers	22,817 citations	9264 74 h-index	9589 142 g-index
217 all docs	217 docs citations	217 times ranked	10860 citing authors

#	Article	IF	Citations
1	Insecticide Resistance in Insect Vectors of Human Disease. Annual Review of Entomology, 2000, 45, 371-391.	11.8	1,180
2	Pyrethroid resistance in African anopheline mosquitoes: what are the implications for malaria control?. Trends in Parasitology, 2011, 27, 91-98.	3.3	903
3	The molecular basis of insecticide resistance in mosquitoes. Insect Biochemistry and Molecular Biology, 2004, 34, 653-665.	2.7	857
4	Insect glutathione transferases and insecticide resistance. Insect Molecular Biology, 2005, 14, 3-8.	2.0	811
5	Functional and Evolutionary Insights from the Genomes of Three Parasitoid <i>Nasonia</i> Species. Science, 2010, 327, 343-348.	12.6	808
6	Insecticide Resistance in African Anopheles Mosquitoes: A Worsening Situation that Needs Urgent Action to Maintain Malaria Control. Trends in Parasitology, 2016, 32, 187-196.	3.3	658
7	A deficit of detoxification enzymes: pesticide sensitivity and environmental response in the honeybee. Insect Molecular Biology, 2006, 15, 615-636.	2.0	599
8	Evolution of Supergene Families Associated with Insecticide Resistance. Science, 2002, 298, 179-181.	12.6	547
9	Identification of a point mutation in the voltage-gated sodium channel gene of Kenyan Anopheles gambiae associated with resistance to DDT and pyrethroids. Insect Molecular Biology, 2000, 9, 491-497.	2.0	536
10	Sequencing of <i>Culex quinquefasciatus</i> Establishes a Platform for Mosquito Comparative Genomics. Science, 2010, 330, 86-88.	12.6	424
11	Averting a malaria disaster: will insecticide resistance derail malaria control?. Lancet, The, 2016, 387, 1785-1788.	13.7	366
12	Identification of a novel class of insect glutathione S-transferases involved in resistance to DDT in the malaria vector Anopheles gambiae. Biochemical Journal, 2001, 359, 295-304.	3.7	313
13	Insecticide resistance in the major dengue vectors Aedes albopictus and Aedes aegypti. Pesticide Biochemistry and Physiology, 2012, 104, 126-131.	3.6	292
14	Genomic analysis of detoxification genes in the mosquito Aedes aegypti. Insect Biochemistry and Molecular Biology, 2008, 38, 113-123.	2.7	289
15	A mutation in the voltageâ€gated sodium channel gene associated with pyrethroid resistance in Latin American <i>Aedes aegypti</i>. Insect Molecular Biology, 2007, 16, 785-798.	2.0	288
16	Field-Caught Permethrin-Resistant Anopheles gambiae Overexpress CYP6P3, a P450 That Metabolises Pyrethroids. PLoS Genetics, 2008, 4, e1000286.	3.5	285
17	The Anopheles gambiae detoxification chip: A highly specific microarray to study metabolic-based insecticide resistance in malaria vectors. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4080-4084.	7.1	282
18	Cytochrome P450 associated with insecticide resistance catalyzes cuticular hydrocarbon production in <i>Anopheles gambiae</i>. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9268-9273.	7.1	279

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19	Detection of knockdown resistance (kdr) mutations in Anopheles gambiae: a comparison of two new high-throughput assays with existing methods. Malaria Journal, 2007, 6, 111.	2.3	273
20	A single mutation in the GSTe2 gene allows tracking of metabolically based insecticide resistance in a major malaria vector. Genome Biology, 2014, 15, R27.	9.6	267
21	Expression of the cytochrome P450s, CYP6P3 and CYP6M2 are significantly elevated in multiple pyrethroid resistant populations of Anopheles gambiae s.s. from Southern Benin and Nigeria. BMC Genomics, 2008, 9, 538.	2.8	256
22	THE IMPORTANCE OF MOSQUITO BEHAVIOURAL ADAPTATIONS TO MALARIA CONTROL IN AFRICA. Evolution; International Journal of Organic Evolution, 2013, 67, 1218-1230.	2.3	253
23	Cross-induction of detoxification genes by environmental xenobiotics and insecticides in the mosquito Aedes aegypti: Impact on larval tolerance to chemical insecticides. Insect Biochemistry and Molecular Biology, 2008, 38, 540-551.	2.7	246
24	The role of the Aedes aegypti Epsilon glutathione transferases in conferring resistance to DDT and pyrethroid insecticides. Insect Biochemistry and Molecular Biology, 2011, 41, 203-209.	2.7	244
25	CYP6 P450 Enzymes and ACE-1 Duplication Produce Extreme and Multiple Insecticide Resistance in the Malaria Mosquito Anopheles gambiae. PLoS Genetics, 2014, 10, e1004236.	3.5	243
26	The Anopheles gambiae glutathione transferase supergene family: annotation, phylogeny and expression profiles. BMC Genomics, 2003, 4, 35.	2.8	233
27	Insecticide resistance in Anopheles gambiae: data from the first year of a multi-country study highlight the extent of the problem. Malaria Journal, 2009, 8, 299.	2.3	233
28	Identification of a novel class of insect glutathione S-transferases involved in resistance to DDT in the malaria vector Anopheles gambiae. Biochemical Journal, 2001, 359, 295.	3.7	229
29	Identification and validation of a gene causing cross-resistance between insecticide classes in <i>Anopheles gambiae</i> from Ghana. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6147-6152.	7.1	212
30	Two duplicated P450 genes are associated with pyrethroid resistance in <i>Anopheles funestus</i>, a major malaria vector. Genome Research, 2009, 19, 452-459.	5.5	208
31	Multiple-Insecticide Resistance in<i>Anopheles gambiae</i>Mosquitoes, Southern CÃ´te dâ€™Ivoire. Emerging Infectious Diseases, 2012, 18, 1508-1511.	4.3	200
32	Pyrethroid Resistance in Aedes aegypti from Grand Cayman. American Journal of Tropical Medicine and Hygiene, 2010, 83, 277-284.	1.4	199
33	An adult-specific CYP6 P450 gene is overexpressed in a pyrethroid-resistant strain of the malaria vector, Anopheles gambiae. Gene, 2003, 318, 91-102.	2.2	195
34	The impact of pyrethroid resistance on the efficacy and effectiveness of bednets for malaria control in Africa. ELife, 2016, 5, .	6.0	194
35	Gene expression in insecticide resistant and susceptible Anopheles gambiae strains constitutively or after insecticide exposure. Insect Molecular Biology, 2005, 14, 509-521.	2.0	183
36	Footprints of positive selection associated with a mutation (<i>N1575Y</i>) in the voltage-gated sodium channel of <i>Anopheles gambiae</i>. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6614-6619.	7.1	179

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37	Metabolic enzymes associated with xenobiotic and chemosensory responses in<i>Nasonia vitripennis</i>. Insect Molecular Biology, 2010, 19, 147-163.	2.0	172
38	Elevated activity of an Epsilon class glutathione transferase confers DDT resistance in the dengue vector, Aedes aegypti. Insect Biochemistry and Molecular Biology, 2005, 35, 861-871.	2.7	168
39	Increased Pyrethroid Resistance in Malaria Vectors and Decreased Bed Net Effectiveness, Burkina Faso. Emerging Infectious Diseases, 2014, 20, 1691-6.	4.3	167
40	Heterologous expression of four glutathione transferase genes genetically linked to a major insecticide-resistance locus from the malaria vector Anopheles gambiae. Biochemical Journal, 2003, 373, 957-963.	3.7	166
41	Contrasting patterns of insecticide resistance and knockdown resistance (kdr) in the dengue vectors Aedes aegypti and Aedes albopictus from Malaysia. Parasites and Vectors, 2015, 8, 181.	2.5	166
42	Exploring the molecular basis of insecticide resistance in the dengue vector Aedes aegypti: a case study in Martinique Island (French West Indies). BMC Genomics, 2009, 10, 494.	2.8	163
43	Gene Amplification, ABC Transporters and Cytochrome P450s: Unraveling the Molecular Basis of Pyrethroid Resistance in the Dengue Vector, Aedes aegypti. PLoS Neglected Tropical Diseases, 2012, 6, e1692.	3.0	163
44	Purification, molecular cloning and heterologous expression of a glutathione S-transferase involved in insecticide resistance from the rice brown planthopper, Nilaparvata lugens. Biochemical Journal, 2002, 362, 329-337.	3.7	158
45	Lessons from the past: managing insecticide resistance in malaria control and eradication programmes. Lancet Infectious Diseases, The, 2008, 8, 387-389.	9.1	151
46	Mosquito Glutathione Transferases. Methods in Enzymology, 2005, 401, 226-241.	1.0	150
47	Pathogenomics of <i>Culex quinquefasciatus</i> and Meta-Analysis of Infection Responses to Diverse Pathogens. Science, 2010, 330, 88-90.	12.6	150
48	Anopheles gambiae distribution and insecticide resistance in the cities of Douala and YaoundÃ© (Cameroon): influence of urban agriculture and pollution. Malaria Journal, 2011, 10, 154.	2.3	140
49	A genome-wide analysis in <i>Anopheles gambiae</i> mosquitoes reveals 46 male accessory gland genes, possible modulators of female behavior. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16215-16220.	7.1	133
50	Pyrethroid tolerance is associated with elevated expression of antioxidants and agricultural practice in <i>Anopheles arabiensis</i> sampled from an area of cotton fields in Northern Cameroon. Molecular Ecology, 2008, 17, 1145-1155.	3.9	131
51	Recent Rapid Rise of a Permethrin Knock Down Resistance Allele in Aedes aegypti in MÃ©xico. PLoS Neglected Tropical Diseases, 2009, 3, e531.	3.0	130
52	A sensory appendage protein protects malaria vectors from pyrethroids. Nature, 2020, 577, 376-380.	27.8	129
53	Evidence of multiple pyrethroid resistance mechanisms in the malaria vector Anopheles gambiae sensu stricto from Nigeria. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2009, 103, 1139-1145.	1.8	128
54	Cloning and characterization of two glutathione S-transferases from a DDT-resistant strain of <i>Anopheles gambiae</i>. Biochemical Journal, 1997, 324, 97-102.	3.7	126

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55	Transcription profiling of a recently colonised pyrethroid resistant Anopheles gambiae strain from Ghana. BMC Genomics, 2007, 8, 36.	2.8	126
56	Transcriptional analysis of insecticide resistance in Anopheles stephensi using cross-species microarray hybridization. Insect Molecular Biology, 2007, 16, 315-324.	2.0	124
57	Homing endonuclease mediated gene targeting in Anopheles gambiae cells and embryos. Nucleic Acids Research, 2007, 35, 5922-5933.	14.5	115
58	Over expression of a Cytochrome P450 (CYP6P9) in a Major African Malaria Vector, <i>Anopheles Funestus,</i> Resistant to Pyrethroids. Insect Molecular Biology, 2008, 17, 19-25.	2.0	113
59	Dynamics of insecticide resistance in malaria vectors in Benin: first evidence of the presence of L1014S kdr mutation in Anopheles gambiae from West Africa. Malaria Journal, 2011, 10, 261.	2.3	112
60	Dissecting the mechanisms responsible for the multiple insecticide resistance phenotype in Anopheles gambiae s.s., M form, from ValÃ©e du Kou, Burkina Faso. Gene, 2013, 519, 98-106.	2.2	111
61	Impact of glyphosate and benzo[a]pyrene on the tolerance of mosquito larvae to chemical insecticides. Role of detoxification genes in response to xenobioticsâ˜†. Aquatic Toxicology, 2009, 93, 61-69.	4.0	109
62	The Aedes aegypti glutathione transferase family. Insect Biochemistry and Molecular Biology, 2007, 37, 1026-1035.	2.7	106
63	Genetic mapping of two loci affecting DDT resistance in the malaria vector Anopheles gambiae. Insect Molecular Biology, 2000, 9, 499-507.	2.0	104
64	Anopheles gambiae P450 reductase is highly expressed in oenocytes and in vivo knockdown increases permethrin susceptibility. Insect Molecular Biology, 2006, 15, 321-327.	2.0	103
65	Temephos Resistance in Aedes aegypti in Colombia Compromises Dengue Vector Control. PLoS Neglected Tropical Diseases, 2013, 7, e2438.	3.0	103
66	Efficacy of Olyset Duo, a bednet containing pyriproxyfen and permethrin, versus a permethrin-only net against clinical malaria in an area with highly pyrethroid-resistant vectors in rural Burkina Faso: a cluster-randomised controlled trial. Lancet, The, 2018, 392, 569-580.	13.7	102
67	Metabolic and Target-Site Mechanisms Combine to Confer Strong DDT Resistance in Anopheles gambiae. PLoS ONE, 2014, 9, e92662.	2.5	102
68	Purification, molecular cloning and heterologous expression of a glutathione S-transferase involved in insecticide resistance from the rice brown planthopper, Nilaparvata lugens. Biochemical Journal, 2002, 362, 329.	3.7	94
69	Identification and analysis of Single Nucleotide Polymorphisms (SNPs) in the mosquito Anopheles funestus, malaria vector. BMC Genomics, 2007, 8, 5.	2.8	94
70	Characterization of inhibitors and substrates of Anopheles gambiae CYP6Z2. Insect Molecular Biology, 2008, 17, 125-135.	2.0	92
71	Resistance to DDT in an Urban Setting: Common Mechanisms Implicated in Both M and S Forms of Anopheles gambiae in the City of YaoundÃ© Cameroon. PLoS ONE, 2013, 8, e61408.	2.5	92
72	Delayed mortality effects cut the malaria transmission potential of insecticide-resistant mosquitoes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8975-8980.	7.1	89

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73	Additional Selection for Insecticide Resistance in Urban Malaria Vectors: DDT Resistance in Anopheles arabiensis from Bobo-Dioulasso, Burkina Faso. PLoS ONE, 2012, 7, e45995.	2.5	88
74	A simplified high-throughput method for pyrethroid knock-down resistance (kdr) detection in Anopheles gambiae. Malaria Journal, 2005, 4, 16.	2.3	87
75	The role of gene splicing, gene amplification and regulation in mosquito insecticide resistance. Philosophical Transactions of the Royal Society B: Biological Sciences, 1998, 353, 1695-1699.	4.0	84
76	Transcriptomic meta-signatures identified in Anopheles gambiae populations reveal previously undetected insecticide resistance mechanisms. Nature Communications, 2018, 9, 5282.	12.8	84
77	The recent escalation in strength of pyrethroid resistance in Anopheles coluzzi in West Africa is linked to increased expression of multiple gene families. BMC Genomics, 2015, 16, 146.	2.8	83
78	When a discriminating dose assay is not enough: measuring the intensity of insecticide resistance in malaria vectors. Malaria Journal, 2015, 14, 210.	2.3	82
79	Cytochrome b Mutation Y268S Conferring Atovaquone Resistance Phenotype in Malaria Parasite Results in Reduced Parasite bc1 Catalytic Turnover and Protein Expression. Journal of Biological Chemistry, 2012, 287, 9731-9741.	3.4	77
80	Functional genetic validation of key genes conferring insecticide resistance in the major African malaria vector, <i>Anopheles gambiae</i>. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25764-25772.	7.1	76
81	Quantitative Trait Loci Mapping of Genome Regions Controlling Permethrin Resistance in the Mosquito Aedes aegypti. Genetics, 2008, 180, 1137-1152.	2.9	75
82	Transcription of detoxification genes after permethrin selection in the mosquito <i>Aedes aegypti</i>. Insect Molecular Biology, 2012, 21, 61-77.	2.0	75
83	Pyriproxyfen is metabolized by P450s associated with pyrethroid resistance in An. gambiae. Insect Biochemistry and Molecular Biology, 2016, 78, 50-57.	2.7	74
84	Electrostatic coating enhances bioavailability of insecticides and breaks pyrethroid resistance in mosquitoes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12081-12086.	7.1	71
85	Aging partially restores the efficacy of malaria vector control in insecticide-resistant populations of Anopheles gambiae s.l. from Burkina Faso. Malaria Journal, 2012, 11, 24.	2.3	70
86	The dynamics of pyrethroid resistance in Anopheles arabiensis from Zanzibar and an assessment of the underlying genetic basis. Parasites and Vectors, 2013, 6, 343.	2.5	70
87	Characterization of the promoters of Epsilon glutathione transferases in the mosquito Anopheles gambiae and their response to oxidative stress. Biochemical Journal, 2005, 387, 879-888.	3.7	69
88	Identification of Carboxylesterase Genes Implicated in Temephos Resistance in the Dengue Vector Aedes aegypti. PLoS Neglected Tropical Diseases, 2014, 8, e2743.	3.0	68
89	Genetic mapping of genes conferring permethrin resistance in the malaria vector, Anopheles gambiae. Insect Molecular Biology, 2004, 13, 379-386.	2.0	67
90	Piperonyl butoxide (PBO) combined with pyrethroids in insecticide-treated nets to prevent malaria in Africa. The Cochrane Library, 2018, 11, CD012776.	2.8	67

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91	Insecticide resistance in Culex quinquefasciatus from Zanzibar: implications for vector control programmes. Parasites and Vectors, 2012, 5, 78.	2.5	66
92	Three years of insecticide resistance monitoring in Anopheles gambiae in Burkina Faso: resistance on the rise?. Malaria Journal, 2012, 11, 232.	2.3	65
93	Influence of the agrochemicals used for rice and vegetable cultivation on insecticide resistance in malaria vectors in southern CÃ´te dâ€™Ivoire. Malaria Journal, 2016, 15, 426.	2.3	65
94	The transcription factor Maf-S regulates metabolic resistance to insecticides in the malaria vector Anopheles gambiae. BMC Genomics, 2017, 18, 669.	2.8	65
95	The role of alternative mRNA splicing in generating heterogeneity within the Anopheles gambiae class I glutathione S-transferase family. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 14284-14289.	7.1	64
96	Structure of an insect epsilon class glutathione S-transferase from the malaria vector Anopheles gambiae provides an explanation for the high DDT-detoxifying activity. Journal of Structural Biology, 2008, 164, 228-235.	2.8	64
97	A Simple Colorimetric Assay for Specific Detection of Glutathione-S Transferase Activity Associated with DDT Resistance in Mosquitoes. PLoS Neglected Tropical Diseases, 2010, 4, e808.	3.0	64
98	The <i>Anopheles gambiae</i> ATPâ€binding cassette transporter family: phylogenetic analysis and tissue localization provide clues on function and role in insecticide resistance. Insect Molecular Biology, 2018, 27, 110-122.	2.0	64
99	Differential expression of the detoxification genes in the different life stages of the malaria vector Anopheles gambiae. Insect Molecular Biology, 2006, 15, 523-530.	2.0	63
100	Mosquito age and susceptibility to insecticides. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2011, 105, 247-253.	1.8	63
101	The pyrethroid resistance status and mechanisms in Aedes aegypti from the Guerrero state, Mexico. Pesticide Biochemistry and Physiology, 2013, 107, 226-234.	3.6	63
102	Dissecting the organ specificity of insecticide resistance candidate genes in Anopheles gambiae: known and novel candidate genes. BMC Genomics, 2014, 15, 1018.	2.8	63
103	Molecular analysis of multiple cytochrome P450 genes from the malaria vector, Anopheles gambiae. Insect Molecular Biology, 2002, 11, 409-418.	2.0	62
104	Mapping a Quantitative Trait Locus (QTL) conferring pyrethroid resistance in the African malaria vector Anopheles funestus. BMC Genomics, 2007, 8, 34.	2.8	61
105	Detoxification enzymes associated with insecticide resistance in laboratory strains of Anopheles arabiensis of different geographic origin. Parasites and Vectors, 2012, 5, 113.	2.5	60
106	Piperonyl butoxide (PBO) combined with pyrethroids in insecticide-treated nets to prevent malaria in Africa. The Cochrane Library, 2021, 2021, CD012776.	2.8	60
107	Mosquitoes cloak their legs to resist insecticides. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191091.	2.6	56
108	Structure of an insect Î´-class glutathioneS-transferase from a DDT-resistant strain of the malaria vectorAnopheles gambiae. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 2211-2217.	2.5	54

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109	Development and application of a simple colorimetric assay reveals widespread distribution of sodium channel mutations in Thai populations of Aedes aegypti. Acta Tropica, 2008, 108, 54-57.	2.0	54
110	Characterization of knockdown resistance in DDTâ€•and pyrethroidâ€•resistant <i>Culex quinquefasciatus</i> populations from Sri Lanka. Tropical Medicine and International Health, 2008, 13, 548-555.	2.3	53
111	Characterisation of Anopheles strains used for laboratory screening of new vector control products. Parasites and Vectors, 2019, 12, 522.	2.5	52
112	Underpinning Sustainable Vector Control through Informed Insecticide Resistance Management. PLoS ONE, 2014, 9, e99822.	2.5	50
113	Involvement of cytochrome P450 monooxygenases in the response of mosquito larvae to dietary plant xenobiotics. Insect Biochemistry and Molecular Biology, 2006, 36, 410-420.	2.7	49
114	Framework for rapid assessment and adoption of new vector control tools. Trends in Parasitology, 2014, 30, 191-204.	3.3	49
115	Insecticide resistance in Anopheles arabiensis in Sudan: temporal trends and underlying mechanisms. Parasites and Vectors, 2014, 7, 213.	2.5	48
116	Cloning, expression and characterization of an insect class I glutathione S-transferase from Anopheles dirus species B. Insect Biochemistry and Molecular Biology, 1998, 28, 321-329.	2.7	47
117	A De Novo Expression Profiling of Anopheles funestus, Malaria Vector in Africa, Using 454 Pyrosequencing. PLoS ONE, 2011, 6, e17418.	2.5	47
118	Cloning and Localization of a Glutathione S-transferase Class I Gene from Anopheles gambiae. Journal of Biological Chemistry, 1997, 272, 5464-5468.	3.4	46
119	Genetic mapping identifies a major locus spanning P450 clusters associated with pyrethroid resistance in kdr-free Anopheles arabiensis from Chad. Heredity, 2013, 110, 389-397.	2.6	46
120	Differential transcription profiles in <i><scp>A</scp>edes aegypti</i> detoxification genes after temephos selection. Insect Molecular Biology, 2014, 23, 199-215.	2.0	46
121	Do bednets including piperonyl butoxide offer additional protection against populations of <i>Anopheles gambiae s.l</i>. that are highly resistant to pyrethroids? An experimental hut evaluation in Burkina Fasov. Medical and Veterinary Entomology, 2018, 32, 407-416.	1.5	45
122	Insecticide-resistant malaria vectors must be tackled. Lancet, The, 2018, 391, 1551-1552.	13.7	44
123	Glutathione Transferases. , 2005, , 383-402.		41
124	Long-lasting insecticide-treated house screens and targeted treatment of productive breeding-sites for dengue vector control in Acapulco, Mexico. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2015, 109, 106-115.	1.8	41
125	Temephos resistance and esterase activity in the mosquito Aedes aegypti in Havana, Cuba increased dramatically between 2006 and 2008. Medical and Veterinary Entomology, 2011, 25, 233-239.	1.5	40
126	Evaluation of a temperate climate mosquito, <i>Ochlerotatus detritus</i> (=<i>Aedes detritus</i>), as a potential vector of Japanese encephalitis virus. Medical and Veterinary Entomology, 2015, 29, 1-9.	1.5	39

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127	Plasmodium infection alters Anopheles gambiae detoxification gene expression. BMC Genomics, 2010, 11, 312.	2.8	37
128	An Operational Framework for Insecticide Resistance Management Planning. Emerging Infectious Diseases, 2016, 22, 773-779.	4.3	36
129	Anopheles gambiae populations from Burkina Faso show minimal delayed mortality after exposure to insecticide-treated nets. Parasites and Vectors, 2020, 13, 17.	2.5	35
130	Microarray and RNAi Analysis of P450s in Anopheles gambiae Male and Female Steroidogenic Tissues: CYP307A1 Is Required for Ecdysteroid Synthesis. PLoS ONE, 2013, 8, e79861.	2.5	34
131	Genetic basis of pyrethroid resistance in a population of Anopheles arabiensis, the primary malaria vector in Lower Moshi, north-eastern Tanzania. Parasites and Vectors, 2014, 7, 274.	2.5	34
132	Functional and immunohistochemical characterization of CCEae3a, a carboxylesterase associated with temephos resistance in the major arbovirus vectors Aedes aegypti and Ae. albopictus. Insect Biochemistry and Molecular Biology, 2016, 74, 61-67.	2.7	33
133	Molecular characterization of DDT resistance in Anopheles gambiae from Benin. Parasites and Vectors, 2014, 7, 409.	2.5	32
134	Effects of insecticide resistance and exposure on Plasmodium development in Anopheles mosquitoes. Current Opinion in Insect Science, 2020, 39, 42-49.	4.4	32
135	Combining Organophosphate Treated Wall Linings and Long-lasting Insecticidal Nets for Improved Control of Pyrethroid Resistant Anopheles gambiae. PLoS ONE, 2014, 9, e83897.	2.5	31
136	A testing cascade to identify repurposed insecticides for next-generation vector control tools: screening a panel of chemistries with novel modes of action against a malaria vector. Gates Open Research, 2019, 3, 1464.	1.1	30
137	Long-term trends in Anopheles gambiae insecticide resistance in CÃ´te dâ€™Ivoire. Parasites and Vectors, 2014, 7, 500.	2.5	29
138	House screening with insecticide-treated netting provides sustained reductions in domestic populations of Aedes aegypti in Merida, Mexico. PLoS Neglected Tropical Diseases, 2018, 12, e0006283.	3.0	29
139	Barrier bednets target malaria vectors and expand the range of usable insecticides. Nature Microbiology, 2020, 5, 40-47.	13.3	28
140	Current and Future Prospects for Preventing Malaria Transmission via the Use of Insecticides. Cold Spring Harbor Perspectives in Medicine, 2017, 7, a026823.	6.2	27
141	CRISPR/Cas9 modified An. gambiae carrying kdr mutation L1014F functionally validate its contribution in insecticide resistance and combined effect with metabolic enzymes. PLoS Genetics, 2021, 17, e1009556.	3.5	27
142	Resistance to Insecticides in Insect Vectors of Disease:estÎ±3, a Novel Amplified Esterase Associated with AmplifiedestÎ²1from Insecticide Resistant Strains of the MosquitoCulex quinquesfasciatus. Experimental Parasitology, 1997, 87, 253-259.	1.2	24
143	Mutated sodium channel genes and elevated monooxygenases are found in pyrethroid resistant populations of Sri Lankan malaria vectors. Pesticide Biochemistry and Physiology, 2007, 88, 108-113.	3.6	24
144	Pyrethroid Resistance in Anopheles gambiae, in Bomi County, Liberia, Compromises Malaria Vector Control. PLoS ONE, 2012, 7, e44986.	2.5	24

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145	A comprehensive testing cascade to identify resistance breaking repurposed insecticides for next-generation vector control tools: screening a panel of chemistries against a malaria vector. Gates Open Research, 2019, 3, 1464.	1.1	24
146	Microarray analysis of a pyrethroid resistant African malaria vector, Anopheles funestus, from southern Africa. Pesticide Biochemistry and Physiology, 2011, 99, 140-147.	3.6	23
147	Unexpectedly high Plasmodium sporozoite rate associated with low human blood index in Anopheles coluzzii from a LLIN-protected village in Burkina Faso. Scientific Reports, 2018, 8, 12806.	3.3	23
148	Assessing the impact of the addition of pyriproxyfen on the durability of permethrin-treated bed nets in Burkina Faso: a compound-randomized controlled trial. Malaria Journal, 2019, 18, 383.	2.3	23
149	Structure and Evolution of mtanga, a Retrotransposon Actively Expressed on the Y Chromosome of the African Malaria Vector Anopheles gambiae. Molecular Biology and Evolution, 2002, 19, 149-162.	8.9	22
150	Extensive permethrin and DDT resistance in Anopheles arabiensis from eastern and central Sudan. Parasites and Vectors, 2011, 4, 154.	2.5	22
151	Detection of G119S ace-1 R mutation in field-collected Anopheles gambiae mosquitoes using allele-specific loop-mediated isothermal amplification (AS-LAMP) method. Malaria Journal, 2015, 14, 477.	2.3	22
152	Insecticide resistance and behavioural adaptation as a response to long-lasting insecticidal net deployment in malaria vectors in the Cascades region of Burkina Faso. Scientific Reports, 2021, 11, 17569.	3.3	22
153	The AvecNet Trial to assess whether addition of pyriproxyfen, an insect juvenile hormone mimic, to long-lasting insecticidal mosquito nets provides additional protection against clinical malaria over current best practice in an area with pyrethroid-resistant vectors in rural Burkina Faso: study protocol for a randomised controlled trial. Trials, 2015, 16, 113.	1.6	21
154	An Integrated Genetic and Physical Map for the Malaria Vector Anopheles funestus. Genetics, 2005, 171, 1779-1787.	2.9	20
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