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Arbovirus-mosquito interactions: RNAi pathway

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#	Paper	IF	Citations
83	Genome Investigations of Vector Competence in <i>Aedes aegypti</i> to Inform Novel Arbovirus Disease Control Approaches. <i>Insects</i> , 2016 , 7,	2.8	28
82	Bugs Are Not to Be Silenced: Small RNA Pathways and Antiviral Responses in Insects. <i>Annual Review of Virology</i> , 2016 , 3, 573-589	14.6	35
81	Dynamics of West Nile virus evolution in mosquito vectors. <i>Current Opinion in Virology</i> , 2016 , 21, 132-138	7.5	24
80	Arthropod Innate Immune Systems and Vector-Borne Diseases. <i>Biochemistry</i> , 2017 , 56, 907-918	3.2	34
79	Interaction of Flavivirus with their mosquito vectors and their impact on the human health in the Americas. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 492, 541-547	3.4	17
78	Nonretroviral integrated RNA viruses in arthropod vectors: an occasional event or something more?. <i>Current Opinion in Insect Science</i> , 2017 , 22, 45-53	5.1	32
77	Flavivirus Pathogenesis in the Mosquito Transmission Vector. <i>Current Clinical Microbiology Reports</i> , 2017 , 4, 115-123	3.1	1
76	Viral Delivery of dsRNA for Control of Insect Agricultural Pests and Vectors of Human Disease: Prospects and Challenges. <i>Frontiers in Physiology</i> , 2017 , 8, 399	4.6	48
75	Comparative genomics shows that viral integrations are abundant and express piRNAs in the arboviral vectors <i>Aedes aegypti</i> and <i>Aedes albopictus</i> . <i>BMC Genomics</i> , 2017 , 18, 512	4.5	99
74	Characterization of the Zika virus induced small RNA response in <i>Aedes aegypti</i> cells. <i>PLoS Neglected Tropical Diseases</i> , 2017 , 11, e0006010	4.8	61
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69	Mosquito Immunobiology: The Intersection of Vector Health and Vector Competence. <i>Annual Review of Entomology</i> , 2018 , 63, 145-167	21.8	42
68	Molecular Basis for Arbovirus Transmission by <i>Aedes aegypti</i> Mosquitoes. <i>Intervirology</i> , 2018 , 61, 255-264	4.5	13
67	<i>Culex quinquefasciatus</i> mosquitoes do not support replication of Zika virus. <i>Journal of General Virology</i> , 2018 , 99, 258-264	4.9	26

66	Antiviral RNA Interference Activity in Cells of the Predatory Mosquito,. <i>Viruses</i> , 2018 , 10,	6.2	5
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63	Subgenomic flaviviral RNAs: What do we know after the first decade of research. <i>Antiviral Research</i> , 2018 , 159, 13-25	10.8	49
62	The genome of the biting midge <i>Culicoides sonorensis</i> and gene expression analyses of vector competence for bluetongue virus. <i>BMC Genomics</i> , 2018 , 19, 624	4.5	12
61	The Immune Responses of the Animal Hosts of West Nile Virus: A Comparison of Insects, Birds, and Mammals. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018 , 8, 96	5.9	16
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59	Natural Variation in Resistance to Virus Infection in Dipteran Insects. <i>Viruses</i> , 2018 , 10,	6.2	39
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49	Expanding the canon: Non-classical mosquito genes at the interface of arboviral infection. <i>Insect Biochemistry and Molecular Biology</i> , 2019 , 109, 72-80	4.5	13

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47	Vertical transmission of Zika virus in <i>Culex quinquefasciatus</i> Say and <i>Aedes aegypti</i> (L.) mosquitoes. <i>Scientific Reports</i> , 2019 , 9, 5257	4.9	18
46	An Evolutionary Perspective on Vector-Borne Diseases. <i>Frontiers in Genetics</i> , 2019 , 10, 1266	4.5	11
45	Identification of a novel cytochrome P450 CYP3356A1 linked with insecticide detoxification in <i>Bradysia odoriphaga</i> . <i>Pest Management Science</i> , 2019 , 75, 1006-1013	4.6	10
44	aBravo Is a Novel Antiviral Protein that Interacts with, but Acts Independently of, the Exogenous siRNA Pathway Effector Dicer 2. <i>Viruses</i> , 2020 , 12,	6.2	2
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42	The Ras/ERK signaling pathway couples antimicrobial peptides to mediate resistance to dengue virus in <i>Aedes</i> mosquitoes. <i>PLoS Neglected Tropical Diseases</i> , 2020 , 14, e0008660	4.8	6
41	Analysis of novel siRNA and piRNA and identification of vsiRNA and vpiRNA expressed in the midgut of <i>Aedes albopictus</i> during dengue infection. <i>Entomological Research</i> , 2020 , 50, 463-474	1.3	1
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39	Understanding the Mechanisms Underlying Host Restriction of Insect-Specific Viruses. <i>Viruses</i> , 2020 , 12,	6.2	6
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36	Low expression levels of nicotinic acetylcholine receptor subunits BoI and BoII are associated with imidacloprid resistance in <i>Bradysia odoriphaga</i> . <i>Pest Management Science</i> , 2020 , 76, 3038-3045	4.6	1
35	Differential Small RNA Responses against Co-Infecting Insect-Specific Viruses in Mosquitoes. <i>Viruses</i> , 2020 , 12,	6.2	8
34	MHC Class III RNA Binding Proteins and Immunity. <i>RNA Biology</i> , 2021 , 18, 640-646	4.8	4
33	Sugar feeding enhances gut immunity and protects against arboviral infection in the mosquito vector <i>Aedes aegypti</i> .		1
32	Alternation between taxonomically divergent hosts is not the major determinant of flavivirus evolution. <i>Virus Evolution</i> , 2021 , 7, veab040	3.7	
31	A mosquito small RNA genomics resource reveals dynamic evolution and host responses to viruses and transposons. <i>Genome Research</i> , 2021 , 31, 512-528	9.7	11

30	Profile of Small RNAs, vDNA Forms and Viral Integrations in Late Chikungunya Virus Infection of Mosquitoes. <i>Viruses</i> , 2021 , 13,	6.2	5
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21	Comparative genomics shows that viral integrations are abundant and express piRNAs in the arboviral vectors <i>Aedes aegypti</i> and <i>Aedes albopictus</i> .		1
20	The genome of the biting midge <i>Culicoides sonorensis</i> and gene expression analyses of vector competence for Bluetongue virus.		
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14	Arbovirus-vector protein interactomics identifies Loquacious as a co-factor for dengue virus replication in <i>Aedes</i> mosquitoes.		0
13	Bluetongue Research at a Crossroads: Modern Genomics Tools Can Pave the Way to New Insights.. <i>Annual Review of Animal Biosciences</i> , 2022 , 10, 303-324	13.7	

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7	The DEAD-box RNA helicase Dhx15 controls glycolysis and arbovirus replication in <i>Aedes aegypti</i> mosquito cells.		○
6	Antiviral RNAi Mechanisms to Arboviruses in Mosquitoes: microRNA Profile of <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> from Grenada, West Indies. <i>Applied Microbiology</i> , 2022 , 2, 381-396		
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