Jason L Rasgon

List of Publications by Year
in descending order

105 papers	5,073 citations	100601 38 h-index	124990 64 g-index
124 all docs	124 docs citations	124 times ranked	5016 citing authors

#	Article	IF	Citations
1	Assessing Aedes aegypti candidate genes during viral infection and Wolbachiaâ€mediated pathogen blocking. Insect Molecular Biology, 2022, 31, 356-368.	1.0	7
2	Cas9-mediated gene editing in the black-legged tick, Ixodes scapularis, by embryo injection and ReMOT Control. IScience, 2022, 25, 103781.	1.9	35
3	Sexual transmission of Anopheles gambiae densovirus (AgDNV) leads to disseminated infection in mated females. Parasites and Vectors, 2022, 15, .	1.0	3
4	Transcriptomic and small RNA response to Mayaro virus infection in Anopheles stephensi mosquitoes. PLoS Neglected Tropical Diseases, 2022, 16, e0010507.	1.3	3
5	Clotting disorder in severe acute respiratory syndrome coronavirus 2. Reviews in Medical Virology, 2021, 31, e2177.	3.9	25
6	Whole-genome assembly of Culex tarsalis. G3: Genes, Genomes, Genetics, 2021, 11, .	0.8	17
7	A mosquito small RNA genomics resource reveals dynamic evolution and host responses to viruses and transposons. Genome Research, 2021, 31, 512-528.	2.4	29
8	Silencing the alarm: an insect salivary enzyme closes plant stomata and inhibits volatile release. New Phytologist, 2021, 230, 793-803.	3.5	34
9	Towards a method for cryopreservation of mosquito vectors of human pathogens. Cryobiology, 2021, 99, 1-10.	0.3	5
10	Combating mosquito-borne diseases using genetic control technologies. Nature Communications, 2021, 12, 4388.	5.8	76
11	A microfluidic platform for highly parallel bite by bite profiling of mosquito-borne pathogen transmission. Nature Communications, 2021, 12, 6018.	5.8	11
12	Simulated vector transmission differentially influences dynamics of two viral variants of deformed wing virus in honey bees (Apis mellifera). Journal of General Virology, 2021, 102, .	1.3	8
13	Actin bundles play a different role in shaping scales compared to bristles in the mosquito Aedes aegypti. Scientific Reports, 2020, 10, 14885.	1.6	6
14	Core commitments for field trials of gene drive organisms. Science, 2020, 370, 1417-1419.	6.0	67
15	Cas9-Mediated Gene-Editing in the Malaria Mosquito Anopheles stephensi by ReMOT Control. G3: Genes, Genomes, Genetics, 2020, 10, 1353-1360.	0.8	52
16	Mice with humanized-lungs and immune system - an idealized model for COVID-19 and other respiratory illness. Virulence, 2020, 11, 486-488.	1.8	10
17	CRISPR-Cas9-Based Genome Editing in the Silverleaf Whitefly (Bemisia tabaci). CRISPR Journal, 2020, 3, 89-96.	1.4	60
18	Anopheles gambiae densovirus (AgDNV) negatively affects Mayaro virus infection in Anopheles gambiae cells and mosquitoes. Parasites and Vectors, 2020, 13, 210.	1.0	11

#	Article	IF	Citations
19	Leaning Into the Bite: The piRNA Pathway as an Exemplar for the Genetic Engineering Need in Mosquitoes. Frontiers in Cellular and Infection Microbiology, 2020, 10, 614342.	1.8	2
20	Pupal and Adult Injections for RNAi and CRISPR Gene Editing in Nasonia vitripennis. Journal of Visualized Experiments, 2020, , .	0.2	3
21	Heat shock protein 70 (Hsp70) mediates Zika virus entry, replication, and egress from host cells. Emerging Microbes and Infections, 2019, 8, 8-16.	3.0	67
22	Dehydration prompts increased activity and blood feeding by mosquitoes. Scientific Reports, 2018, 8, 6804.	1.6	69
23	Anopheles mosquitoes may drive invasion and transmission of Mayaro virus across geographically diverse regions. PLoS Neglected Tropical Diseases, 2018, 12, e0006895.	1.3	66
24	Editorial overview: Vectors and medical and veterinary entomology. Current Opinion in Insect Science, 2018, 28, iv-v.	2.2	0
25	Densonucleosis viruses (â€˜densovirusesâ€™) for mosquito and pathogen control. Current Opinion in Insect Science, 2018, 28, 90-97.	2.2	36
26	Targeted delivery of CRISPR-Cas9 ribonucleoprotein into arthropod ovaries for heritable germline gene editing. Nature Communications, 2018, 9, 3008.	5.8	156
27	Vector competence of selected North AmericanAnophelesandCulexmosquitoes for Zika virus. PeerJ, 2018, 6, e4324.	0.9	18
28	Functional characterization of Aquaporin-like genes in the human bed bug Cimex lectularius. Scientific Reports, 2017, 7, 3214.	1.6	18
29	Gene Drive for Mosquito Control: Where Did It Come from and Where Are We Headed?. International Journal of Environmental Research and Public Health, 2017, 14, 1006.	1.2	80
30	Wolbachia effects on Rift Valley fever virus infection in Culex tarsalis mosquitoes. PLoS Neglected Tropical Diseases, 2017, 11, e0006050.	1.3	18
31	Vector competence ofAnophelesandCulexmosquitoes for Zika virus. PeerJ, 2017, 5, e3096.	0.9	37
32	Aquaglyceroporin function in the malaria mosquito Anopheles gambiae. Biology of the Cell, 2016, 108, 294-305.	0.7	23
33	Genome Sequence of Elizabethkingia anophelis Strain EaAs1, Isolated from the Asian Malaria Mosquito Anopheles stephensi. Genome Announcements, 2016, 4, .	0.8	19
34	Genome Sequences of Staphylococcus hominis Strains ShAs1, ShAs2, and ShAs3, Isolated from the Asian Malaria Mosquito Anopheles stephensi. Genome Announcements, 2016, 4, .	0.8	8
35	Genome Sequence of Stenotrophomonas maltophilia Strain SmAs1, Isolated From the Asian Malaria Mosquito Anopheles stephensi. Genome Announcements, 2016, 4, .	0.8	15
36	Anti-apoptosis in porcine respiratory and reproductive syndrome virus. Virulence, 2016, 7, 610-611.	1.8	6

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37	Discovery of filarial nematode DNA in Amblyomma americanum in Northern Virginia. Ticks and Tick-borne Diseases, 2016, 7, 315-318.	1.1	9
38	Wolbachia pipientis should not be split into multiple species: A response to RamÃrez-Puebla et al., â€œSpecies in Wolbachia? Proposal for the designation of â€˜Candidatus Wolbachia bourtzisiiâ€™, â€˜Candidatus Wolbachia onchocercicolaâ€™, â€˜Candidatus Wolbachia blaxteriâ€™, â€˜Candidatus Wolbachia brugiiâ€™, â€˜Candidatus Wolbachia taylloriâ€™, â€˜Candidatus Wolbachia collembolicolaâ€™ and â€˜Candidatus Wolbachia multihospitumâ€™ for the different species within Wolbachia supergroupsâ€. Systematic and Applied Microbiology, 2016, 39, 220-222.	1.2	37
39	Bunyaviruses are common in male and femaleIxodes scapularisticks in central Pennsylvania. PeerJ, 2016, 4, e2324.	0.9	26
40	Factors influencing infection and transmission ofAnopheles gambiaedensovirus (AgDNV) in mosquitoes. PeerJ, 2016, 4, e2691.	0.9	12
41	In vitro and in vivo host range of Anopheles gambiae densovirus (AgDNV). Scientific Reports, 2015, 5, 12701.	1.6	25
42	The microbiome modulates arbovirus transmission in mosquitoes. Current Opinion in Virology, 2015, 15, 97-102.	2.6	193
43	Temperature alters Plasmodium blocking by Wolbachia. Scientific Reports, 2015, 4, 3932.	1.6	109
44	Population and Demographic Structure of Ixodes scapularis Say in the Eastern United States. PLoS ONE, 2014, 9, e101389.	1.1	39
45	Wolbachia Can Enhance Plasmodium Infection in Mosquitoes: Implications for Malaria Control?. PLoS Pathogens, 2014, 10, e1004182.	2.1	54
46	Wolbachia Enhances West Nile Virus (WNV) Infection in the Mosquito Culex tarsalis. PLoS Neglected Tropical Diseases, 2014, 8, e2965.	1.3	160
47	20â€hydroxyecdysone mediates nonâ€canonical regulation of mosquito vitellogenins through alternative splicing. Insect Molecular Biology, 2014, 23, 407-416.	1.0	4
48	Harnessing mosquitoâ€“Wolbachia symbiosis for vector and disease control. Acta Tropica, 2014, 132, S150-S163.	0.9	284
49	Native microbiome impedes vertical transmission of Wolbachia in Anopheles mosquitoes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12498-12503.	3.3	230
50	Transinfection: a method to investigate <scp>W</scp>olbachiaâ€“host interactions and control arthropodâ€borne disease. Insect Molecular Biology, 2014, 23, 141-151.	1.0	122
51	A viral over-expression system for the major malaria mosquito Anopheles gambiae. Scientific Reports, 2014, 4, 5127.	1.6	22
52	Anopheles gambiaedensovirus (AgDNV) has negligible effects on adult survival and transcriptome of its mosquito host. PeerJ, 2014, 2, e584.	0.9	23
53	Culex tarsalis Vitellogenin Gene Promoters Investigated In Silico and In Vivo Using Transgenic Drosophila melanogaster. PLoS ONE, 2014, 9, e88994.	1.1	1
54	Impact of trehalose transporter knockdown on Anopheles gambiae stress adaptation and susceptibility to Plasmodium falciparum infection. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17504-17509.	3.3	76

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55	A Functional Workbench for Anopheles gambiae Micro Array Analysis. , 2013, , .		1
56	ANOSPEX: A Stochastic, Spatially Explicit Model for Studying Anopheles Metapopulation Dynamics. PLoS ONE, 2013, 8, e68040.	1.1	14
57	Organ-Specific Splice Variants of Aquaporin Water Channel AgAQP1 in the Malaria Vector Anopheles gambiae. PLoS ONE, 2013, 8, e75888.	1.1	34
58	Transgenic Mosquitoes Expressing a Phospholipase A2 Gene Have a Fitness Advantage When Fed Plasmodium falciparum-Infected Blood. PLoS ONE, 2013, 8, e76097.	1.1	13
59	Wolbachia Strain wAlbB Enhances Infection by the Rodent Malaria Parasite Plasmodium berghei in Anopheles gambiae Mosquitoes. Applied and Environmental Microbiology, 2012, 78, 1491-1495.	1.4	104
60	Wolbachia Infections in Arthropod Hosts. , 2012, , 351-366.		2
61	Distribution and infection frequency of â€˜Candidatus Rickettsia amblyommiiâ€™ in Maryland populations of the lone star tick (Amblyomma americanum) and culture in an Anopheles gambiae mosquito cell line. Ticks and Tick-borne Diseases, 2012, 3, 38-42.	1.1	20
62	A statistical approach to selecting and confirming validation targets in -omics experiments. BMC Bioinformatics, 2012, 13, 150.	1.2	13
63	Effects of larval rearing temperature on immature development and West Nile virus vector competence of Culex tarsalis. Parasites and Vectors, 2012, 5, 199.	1.0	48
64	Wolbachia Induces Male-Specific Mortality in the Mosquito Culex pipiens (LIN Strain). PLoS ONE, 2012, 7, e30381.	1.1	10
65	Invasion of Wolbachia into Anopheles and Other Insect Germlines in an Ex vivo Organ Culture System. PLoS ONE, 2012, 7, e36277.	1.1	31
66	Distribution and molecular characterization of Wolbachia endosymbionts and filarial nematodes in Maryland populations of the lone star tick (Amblyomma americanum). FEMS Microbiology Ecology, 2011, 77, 50-56.	1.3	45
67	Endectocides for malaria control. Trends in Parasitology, 2011, 27, 423-428.	1.5	97
68	Using infections to fight infections: paratransgenic fungi can block malaria transmission in mosquitoes. Future Microbiology, 2011, 6, 851-853.	1.0	24
69	Mosquitoes attacked from within. Nature, 2011, 476, 407-408.	13.7	16
70	Wolbachia Infections in Anopheles gambiae Cells: Transcriptomic Characterization of a Novel Host-Symbiont Interaction. PLoS Pathogens, 2011, 7, e1001296.	2.1	88
71	Aquaporin water channel AgAQP1 in the malaria vector mosquito Anopheles gambiae during blood feeding and humidity adaptation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6062-6066.	3.3	87
72	Larval Nutritional Stress Does Not Affect Vector Competence for West Nile Virus (WNV) inCulex tarsalis. Vector-Borne and Zoonotic Diseases, 2011, 11, 1493-1497.	0.6	37

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73	Wolbachia Infections Are Virulent and Inhibit the Human Malaria Parasite Plasmodium Falciparum in Anopheles Gambiae. PLoS Pathogens, 2011, 7, e1002043.	2.1	313
74	Duplication, concerted evolution and purifying selection drive the evolution of mosquito vitellogenin genes. BMC Evolutionary Biology, 2010, 10, 142.	3.2	15
75	Population genetic data suggest a role for mosquito-mediated dispersal of West Nile virus across the western United States. Molecular Ecology, 2010, 19, 1573-1584.	2.0	51
76	Potential for the Anopheles gambiae Densonucleosis Virus To Act as an â€œEvolution-Proofâ€• Biopesticide. Journal of Virology, 2010, 84, 7726-7729.	1.5	36
77	Mass drug administration of ivermectin in south-eastern Senegal reduces the survivorship of wild-caught, blood fed malaria vectors. Malaria Journal, 2010, 9, 365.	0.8	91
78	The Virulent Wolbachia Strain wMelPop Efficiently Establishes Somatic Infections in the Malaria Vector Anopheles gambiae. Applied and Environmental Microbiology, 2009, 75, 3373-3376.	1.4	50
79	Manipulating insulin signaling to enhance mosquito reproduction. BMC Physiology, 2009, 9, 15.	3.6	20
80	Multi-Locus Assortment (MLA) for Transgene Dispersal and Elimination in Mosquito Populations. PLoS ONE, 2009, 4, e5833.	1.1	38
81	Mosquitocidal vaccines: a neglected addition to malaria and dengue control strategies. Trends in Parasitology, 2008, 24, 396-400.	1.5	30
82	Viral Paratransgenesis in the Malaria Vector Anopheles gambiae. PLoS Pathogens, 2008, 4, e1000135.	2.1	131
83	Stable Isotope Analysis Can Potentially Identify Completely-Digested Bloodmeals in Mosquitoes. PLoS ONE, 2008, 3, e2198.	1.1	16
84	Using Predictive Models to Optimize Wolbachia-Based Strategies for Vector-Borne Disease Control. Advances in Experimental Medicine and Biology, 2008, 627, 114-125.	0.8	28
85	SSCP Analysis of scnDNA for Genetic Profiling of Aedes aegypti. American Journal of Tropical Medicine and Hygiene, 2008, 79, 511-517.	0.6	2
86	Wolbachia and Anophelesmosquitoes. Contemporary Topics in Entomology Series, 2008, , 321-327.	0.3	2
87	Transgenic malaria-resistant mosquitoes have a fitness advantage when feeding on Plasmodium-infected blood. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5580-5583.	3.3	104
88	Evidence for a Population Expansion in the West Nile Virus Vector Culex tarsalis. Molecular Biology and Evolution, 2007, 24, 1208-1218.	3.5	41
89	Population Replacement Strategies for Controlling Vector Populations and the Use of Wolbachia pipientis for Genetic Drive. Journal of Visualized Experiments, 2007, , 225.	0.2	9
90	Maintaining Wolbachia in Cell-free Medium. Journal of Visualized Experiments, 2007, , 223.	0.2	5

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91	Endosymbiotic Bacteria of Bed Bugs: Evolution, Ecology and Genetics. American Entomologist, 2006, 52, 119-122.	0.1	22
92	Polymorphic microsatellite loci from the West Nile virus vector Culex tarsalis. Molecular Ecology Notes, 2006, 6, 680-682.	1.7	6
93	Geographic Distribution of <I>Wolbachia</I> Infections in <I>Cimex lectularius</I> (Heteroptera:) Tj ETQq1 1 0.784314 rgBT /Overlock	0.9	18
94	Geographic Distribution ofWolbachiaInfections inCimex lectularius(Heteroptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.9	26
95	Evolutionary history of a mosquito endosymbiont revealed through mitochondrial hitchhiking. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 1603-1611.	1.2	56
96	Wolbachia Infections in the Cimicidae: Museum Specimens as an Untapped Resource for Endosymbiont Surveys. Applied and Environmental Microbiology, 2006, 72, 3161-3167.	1.4	38
97	Survival of Wolbachia pipientis in Cell-Free Medium. Applied and Environmental Microbiology, 2006, 72, 6934-6937.	1.4	101
98	Can Anopheles gambiae Be Infected with Wolbachia pipientis? Insights from an In Vitro System. Applied and Environmental Microbiology, 2006, 72, 7718-7722.	1.4	42
99	Phylogenetic Characterization of <I>Wolbachia</I> Symbionts Infecting <I>Cimex lectularius</I> L. and <I>Oeciacus vicarius</I> Horvath (Hemiptera: Cimicidae). Journal of Medical Entomology, 2004, 41, 1175-1178.	0.9	50
100	Crimson: A Novel Sex-Linked Eye Color Mutant ofCulex PipiensL. (Diptera: Culicidae). Journal of Medical Entomology, 2004, 41, 385-391.	0.9	27
101	An Initial Survey forWolbachia(Rickettsiales: Rickettsiaceae) Infections in Selected California Mosquitoes (Diptera: Culicidae) : Table 1. Journal of Medical Entomology, 2004, 41, 255-257.	0.9	76
102	Impact of population age structure on Wolbachia transgene driver efficacy: ecologically complex factors and release of genetically modified mosquitoes. Insect Biochemistry and Molecular Biology, 2004, 34, 707-713.	1.2	56
103	Differences in Extent of Genetic Introgression Between SympatricCulex pipiensandCulex quinquefasciatus(Diptera: Culicidae) in California and South Africa. Journal of Medical Entomology, 2003, 40, 36-51.	0.9	120
104	<I>Wolbachia</I>-Induced Mortality as a Mechanism to Modulate Pathogen Transmission by Vector Arthropods. Journal of Medical Entomology, 2003, 40, 125-132.	0.9	82
105	Wolbachia and Cytoplasmic Incompatibility in the California Culex pipiens Mosquito Species Complex: Parameter Estimates and Infection Dynamics in Natural Populations. Genetics, 2003, 165, 2029-2038.	1.2	144