

# Francis M Jiggins

## List of Publications by Year in descending order

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Version: 2024-02-01

105  
papers

8,624  
citations

44042

48  
h-index

54882

84  
g-index

115  
all docs

115  
docs citations

115  
times ranked

9343  
citing authors

#	ARTICLE	IF	CITATIONS
1	Problems with mitochondrial DNA as a marker in population, phylogeographic and phylogenetic studies: the effects of inherited symbionts. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 1525-1534.	1.2	659
2	The evolution of RNAi as a defence against viruses and transposable elements. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 99-115.	1.8	423
3	Male-killing Wolbachia in two species of insect. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1999, 266, 735-740.	1.2	343
4	The Evolution and Genetics of Virus Host Shifts. <i>PLoS Pathogens</i> , 2014, 10, e1004395.	2.1	291
5	Wolbachia Variants Induce Differential Protection to Viruses in <i>Drosophila melanogaster</i> : A Phenotypic and Phylogenomic Analysis. <i>PLoS Genetics</i> , 2013, 9, e1003896.	1.5	277
6	Natural Selection Drives Extremely Rapid Evolution in Antiviral RNAi Genes. <i>Current Biology</i> , 2006, 16, 580-585.	1.8	270
7	Adaptive introgression underlies polymorphic seasonal camouflage in snowshoe hares. <i>Science</i> , 2018, 360, 1355-1358.	6.0	234
8	Estimating Divergence Dates and Substitution Rates in the <i>Drosophila</i> Phylogeny. <i>Molecular Biology and Evolution</i> , 2012, 29, 3459-3473.	3.5	230
9	Symbionts Commonly Provide Broad Spectrum Resistance to Viruses in Insects: A Comparative Analysis of Wolbachia Strains. <i>PLoS Pathogens</i> , 2014, 10, e1004369.	2.1	226
10	The First Myriapod Genome Sequence Reveals Conservative Arthropod Gene Content and Genome Organisation in the Centipede <i>Strigamia maritima</i> . <i>PLoS Biology</i> , 2014, 12, e1002005.	2.6	221
11	Quantifying Adaptive Evolution in the <i>Drosophila</i> Immune System. <i>PLoS Genetics</i> , 2009, 5, e1000698.	1.5	219
12	Pan-arthropod analysis reveals somatic piRNAs as an ancestral defence against transposable elements. <i>Nature Ecology and Evolution</i> , 2018, 2, 174-181.	3.4	214
13	Male-Killing Wolbachia and Mitochondrial DNA: Selective Sweeps, Hybrid Introgression and Parasite Population Dynamics. <i>Genetics</i> , 2003, 164, 5-12.	1.2	207
14	Sex-ratio-distorting Wolbachia causes sex-role reversal in its butterfly host. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000, 267, 69-73.	1.2	197
15	Population Genomics of the Wolbachia Endosymbiont in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2012, 8, e1003129.	1.5	178
16	Host Phylogeny Determines Viral Persistence and Replication in Novel Hosts. <i>PLoS Pathogens</i> , 2011, 7, e1002260.	2.1	172
17	The Intracellular Bacterium Wolbachia Uses Parasitoid Wasps as Phoretic Vectors for Efficient Horizontal Transmission. <i>PLoS Pathogens</i> , 2015, 11, e1004672.	2.1	162
18	Genome-Wide Association Studies Reveal a Simple Genetic Basis of Resistance to Naturally Coevolving Viruses in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2012, 8, e1003057.	1.5	143

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19	Comparative Genomics Reveals the Origins and Diversity of Arthropod Immune Systems. <i>Molecular Biology and Evolution</i> , 2015, 32, 2111-2129.	3.5	136
20	Successive Increases in the Resistance of <i>Drosophila</i> to Viral Infection through a Transposon Insertion Followed by a Duplication. <i>PLoS Genetics</i> , 2011, 7, e1002337.	1.5	130
21	Parallel adaptation of rabbit populations to myxoma virus. <i>Science</i> , 2019, 363, 1319-1326.	6.0	124
22	Host-Symbiont Conflicts: Positive Selection on an Outer Membrane Protein of Parasitic but not Mutualistic Rickettsiaceae. <i>Molecular Biology and Evolution</i> , 2002, 19, 1341-1349.	3.5	110
23	The Causes and Consequences of Changes in Virulence following Pathogen Host Shifts. <i>PLoS Pathogens</i> , 2015, 11, e1004728.	2.1	110
24	Genome Sequencing of the Phytoseiid Predatory Mite <i>Metaseiulus occidentalis</i> Reveals Completely Atomized <i>Hox</i> Genes and Superdynamic Intron Evolution. <i>Genome Biology and Evolution</i> , 2016, 8, 1762-1775.	1.1	102
25	Recombination confounds interpretations of <i>Wolbachia</i> evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 1423-1427.	1.2	101
26	Sex ratio distortion in <i>Acraea encedon</i> (Lepidoptera: Nymphalidae) is caused by a male-killing bacterium. <i>Heredity</i> , 1998, 81, 87-91.	1.2	100
27	Population genomics reveals that an anthropophilic population of <i>Aedes aegypti</i> mosquitoes in West Africa recently gave rise to American and Asian populations of this major disease vector. <i>BMC Biology</i> , 2017, 15, 16.	1.7	96
28	Natural Selection and Genetic Diversity in the Butterfly <i>Heliconius melpomene</i> . <i>Genetics</i> , 2016, 203, 525-541.	1.2	94
29	Should Symbionts Be Nice or Selfish? Antiviral Effects of <i>Wolbachia</i> Are Costly but Reproductive Parasitism Is Not. <i>PLoS Pathogens</i> , 2015, 11, e1005021.	2.1	85
30	Are we underestimating the diversity and incidence of insect bacterial symbionts? A case study in ladybird beetles. <i>Biology Letters</i> , 2007, 3, 678-681.	1.0	83
31	The spread of <i>Wolbachia</i> through mosquito populations. <i>PLoS Biology</i> , 2017, 15, e2002780.	2.6	82
32	<i>Wolbachia</i> Blocks Viral Genome Replication Early in Infection without a Transcriptional Response by the Endosymbiont or Host Small RNA Pathways. <i>PLoS Pathogens</i> , 2016, 12, e1005536.	2.1	79
33	Life and Death of Selfish Genes: Comparative Genomics Reveals the Dynamic Evolution of Cytoplasmic Incompatibility. <i>Molecular Biology and Evolution</i> , 2021, 38, 2-15.	3.5	72
34	Symbiont strain is the main determinant of variation in <i>Wolbachia</i> -mediated protection against viruses across <i>Drosophila</i> species. <i>Molecular Ecology</i> , 2017, 26, 4072-4084.	2.0	69
35	The evolution, diversity, and host associations of rhabdoviruses. <i>Virus Evolution</i> , 2015, 1, vev014.	2.2	68
36	What causes inefficient transmission of male-killing <i>Wolbachia</i> in <i>Drosophila</i> ?. <i>Heredity</i> , 2001, 87, 220-226.	1.2	67

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37	The Rate of Recombination in Wolbachia Bacteria. <i>Molecular Biology and Evolution</i> , 2002, 19, 1640-1643.	3.5	67
38	Two male-killing Wolbachia strains coexist within a population of the butterfly <i>Acraea encedon</i> . <i>Heredity</i> , 2001, 86, 161-166.	1.2	66
39	The Transcriptional Response of <i>Drosophila melanogaster</i> to Infection with the Sigma Virus (Rhabdoviridae). <i>PLoS ONE</i> , 2009, 4, e6838.	1.1	65
40	The phage gene <i>wmk</i> is a candidate for male killing by a bacterial endosymbiont. <i>PLoS Pathogens</i> , 2019, 15, e1007936.	2.1	64
41	The recent spread of a vertically transmitted virus through populations of <i>Drosophila melanogaster</i> . <i>Molecular Ecology</i> , 2007, 16, 3947-3954.	2.0	61
42	Sigma viruses from three species of <i>Drosophila</i> form a major new clade in the rhabdovirus phylogeny. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 35-44.	1.2	60
43	Male killing can select for male mate choice: a novel solution to the paradox of the lek. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000, 267, 867-874.	1.2	59
44	Recent changes in phenotype and patterns of host specialization in Wolbachia bacteria. <i>Molecular Ecology</i> , 2002, 11, 1275-1283.	2.0	58
45	The Evolution of Antifungal Peptides in <i>Drosophila</i> . <i>Genetics</i> , 2005, 171, 1847-1859.	1.2	58
46	Vertically transmitted viral endosymbionts of insects: do sigma viruses walk alone?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 3889-3898.	1.2	56
47	Widespread conservation and lineage-specific diversification of genome-wide DNA methylation patterns across arthropods. <i>PLoS Genetics</i> , 2020, 16, e1008864.	1.5	56
48	Molecular Evolution and Phylogenetic Utility of Wolbachia <i>ftsZ</i> and <i>wsp</i> Gene Sequences with Special Reference to the Origin of Male-Killing. <i>Molecular Biology and Evolution</i> , 2000, 17, 584-600.	3.5	55
49	Recent and Recurrent Selective Sweeps of the Antiviral RNAi Gene <i>Argonaute-2</i> in Three Species of <i>Drosophila</i> . <i>Molecular Biology and Evolution</i> , 2011, 28, 1043-1056.	3.5	55
50	HOW CAN SEX RATIO DISTORTERS REACH EXTREME PREVALENCES? MALE-KILLING WOLBACHIA ARE NOT SUPPRESSED AND HAVE NEAR-PERFECT VERTICAL TRANSMISSION EFFICIENCY IN <i>ACRAEA ENCEDON</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 2290-2295.	1.1	54
51	Rapid Insect Evolution by Symbiont Transfer. <i>Science</i> , 2011, 332, 185-186.	6.0	54
52	The Evolution of Parasite Recognition Genes in the Innate Immune System: Purifying Selection on <i>Drosophila melanogaster</i> Peptidoglycan Recognition Proteins. <i>Journal of Molecular Evolution</i> , 2003, 57, 598-605.	0.8	53
53	Evidence for ADAR-induced hypermutation of the <i>Drosophila</i> sigma virus (Rhabdoviridae). <i>BMC Genetics</i> , 2009, 10, 75.	2.7	50
54	The genetic architecture of resistance to virus infection in <i>Drosophila</i> . <i>Molecular Ecology</i> , 2016, 25, 5228-5241.	2.0	50

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55	Host-pathogen coevolution increases genetic variation in susceptibility to infection. <i>ELife</i> , 2019, 8, .	2.8	49
56	The age and evolution of an antiviral resistance mutation in <i>Drosophila melanogaster</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 2027-2034.	1.2	48
57	Rhabdoviruses in Two Species of <i>Drosophila</i> : Vertical Transmission and a Recent Sweep. <i>Genetics</i> , 2011, 188, 141-150.	1.2	45
58	Assembly of the Genome of the Disease Vector <i>Aedes aegypti</i> onto a Genetic Linkage Map Allows Mapping of Genes Affecting Disease Transmission. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2652.	1.3	44
59	Addicted? Reduced host resistance in populations with defensive symbionts. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160778.	1.2	44
60	Previous Exposure to an RNA Virus Does Not Protect against Subsequent Infection in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2013, 8, e73833.	1.1	43
61	Contrasting Evolutionary Patterns in <i>Drosophila</i> Immune Receptors. <i>Journal of Molecular Evolution</i> , 2006, 63, 769-780.	0.8	42
62	A gene associated with social immunity in the burying beetle <i>Nicrophorus vespilloides</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20152733.	1.2	39
63	An Ancient Mitochondrial Polymorphism in <i>Adalia bipunctata</i> Linked to a Sex-Ratio-Distorting Bacterium. <i>Genetics</i> , 2005, 171, 1115-1124.	1.2	37
64	Conjugation genes are common throughout the genus <i>Rickettsia</i> and are transmitted horizontally. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 3619-3627.	1.2	37
65	Exome and Transcriptome Sequencing of <i>Aedes aegypti</i> Identifies a Locus That Confers Resistance to <i>Brugia malayi</i> and Alters the Immune Response. <i>PLoS Pathogens</i> , 2015, 11, e1004765.	2.1	37
66	Latitudinal clines in gene expression and cis-regulatory element variation in <i>Drosophila melanogaster</i> . <i>BMC Genomics</i> , 2016, 17, 981.	1.2	35
67	Host shifts result in parallel genetic changes when viruses evolve in closely related species. <i>PLoS Pathogens</i> , 2018, 14, e1006951.	2.1	34
68	Identification of Wolbachia Strains in Mosquito Disease Vectors. <i>PLoS ONE</i> , 2012, 7, e49922.	1.1	33
69	Vertically transmitted rhabdoviruses are found across three insect families and have dynamic interactions with their hosts. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162381.	1.2	32
70	Seasonal phenotypic plasticity: wild ladybirds are darker at cold temperatures. <i>Evolutionary Ecology</i> , 2011, 25, 1259-1268.	0.5	31
71	THE DYNAMICS OF RECIPROCAL SELECTIVE SWEEPS OF HOST RESISTANCE AND A PARASITE COUNTER-ADAPTATION IN <i>DROSOPHILA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 761-773.	1.1	31
72	Genetic Variation Affecting Host-Parasite Interactions: Different Genes Affect Different Aspects of Sigma Virus Replication and Transmission in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2008, 178, 2191-2199.	1.2	30

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73	Constitutive activation of cellular immunity underlies the evolution of resistance to infection in <i>Drosophila</i> . <i>ELife</i> , 2020, 9, .	2.8	27
74	Host-switching by a vertically transmitted rhabdovirus in <i>Drosophila</i> . <i>Biology Letters</i> , 2011, 7, 747-750.	1.0	26
75	Complex Coding and Regulatory Polymorphisms in a Restriction Factor Determine the Susceptibility of <i>Drosophila</i> to Viral Infection. <i>Genetics</i> , 2017, 206, 2159-2173.	1.2	26
76	Wolbachia reduces virus infection in a natural population of <i>Drosophila</i> . <i>Communications Biology</i> , 2021, 4, 1327.	2.0	26
77	Adaptive Evolution and Recombination of Rickettsia Antigens. <i>Journal of Molecular Evolution</i> , 2006, 62, 99-110.	0.8	25
78	Potential role of the sexually transmitted mite <i>Coccipolipus hippodamiae</i> in controlling populations of the invasive ladybird <i>Harmonia axyridis</i> . <i>Biological Control</i> , 2010, 53, 243-247.	1.4	25
79	Male-killing Wolbachia do not protect <i>Drosophila bifasciata</i> against viral infection. <i>BMC Microbiology</i> , 2012, 12, S8.	1.3	25
80	Environmental and Genetic Factors Determine Whether the Mosquito <i>Aedes aegypti</i> Lays Eggs Without a Blood Meal. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 92, 715-721.	0.6	25
81	Parallel and costly changes to cellular immunity underlie the evolution of parasitoid resistance in three <i>Drosophila</i> species. <i>PLoS Pathogens</i> , 2017, 13, e1006683.	2.1	24
82	Exon-Enriched Libraries Reveal Large Genic Differences Between <i>Aedes aegypti</i> from Senegal, West Africa, and Populations Outside Africa. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 571-582.	0.8	22
83	Age, tissue, genotype and virus infection regulate <i>Wolbachia</i> levels in <i>Drosophila</i> . <i>Molecular Ecology</i> , 2020, 29, 2063-2079.	2.0	22
84	Genetic variation affecting host-parasite interactions: major effect quantitative trait loci affect the transmission of sigma virus in <i>Drosophila melanogaster</i> . <i>Molecular Ecology</i> , 2008, 17, 3800-3807.	2.0	21
85	A Polymorphism in the Processing Body Component Ge-1 Controls Resistance to a Naturally Occurring Rhabdovirus in <i>Drosophila</i> . <i>PLoS Pathogens</i> , 2016, 12, e1005387.	2.1	21
86	Disease association mapping in <i>Drosophila</i> can be replicated in the wild. <i>Biology Letters</i> , 2010, 6, 666-668.	1.0	20
87	Virus evolution in <i>Wolbachia</i> infected <i>Drosophila</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20192117.	1.2	20
88	Flies on the move: an inherited virus mirrors <i>Drosophila melanogaster</i> 's elusive ecology and demography. <i>Molecular Ecology</i> , 2014, 23, 2093-2104.	2.0	19
89	Widespread "hilltopping" in <i>Acraea</i> butterflies and the origin of sex-role-reversed swarming in <i>Acraea encedon</i> and <i>A. encedana</i> . <i>African Journal of Ecology</i> , 2002, 40, 228-231.	0.4	17
90	Vector competence of <i>Aedes aegypti</i> mosquitoes for filarial nematodes is affected by age and nutrient limitation. <i>Experimental Gerontology</i> , 2015, 61, 47-53.	1.2	17

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91	DROP: Molecular voucher database for identification of <i>Drosophila</i> parasitoids. <i>Molecular Ecology Resources</i> , 2021, 21, 2437-2454.	2.2	16
92	Sex ratio distortion in <i>Acraea encedon</i> (Lepidoptera: Nymphalidae) is caused by a male-killing bacterium. <i>Heredity</i> , 1998, 81, 87-91.	1.2	13
93	SPECIFIC INTERACTIONS BETWEEN HOST AND PARASITE GENOTYPES DO NOT ACT AS A CONSTRAINT ON THE EVOLUTION OF ANTIVIRAL RESISTANCE IN DROSOPHILA. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 1114-1125.	1.1	12
94	Estimates of allele-specific expression in <i>Drosophila</i> with a single genome sequence and RNA-seq data. <i>Bioinformatics</i> , 2014, 30, 2603-2610.	1.8	12
95	Open questions: how does <i>Wolbachia</i> do what it does?. <i>BMC Biology</i> , 2016, 14, 92.	1.7	10
96	A novel transposable element-mediated mechanism causes antiviral resistance in <i>Drosophila</i> through truncating the Veneno protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	10
97	Alternative patterns of sex chromosome differentiation in <i>Aedes aegypti</i> (L). <i>BMC Genomics</i> , 2017, 18, 943.	1.2	9
98	<i>Wolbachia</i> affect behavior and possibly reproductive compatibility but not thermoresistance, fecundity, and morphology in a novel transinfected host, <i>Drosophila nigrosarsa</i> . <i>Ecology and Evolution</i> , 2020, 10, 4457-4470.	0.8	9
99	Independent effects on cellular and humoral immune responses underlie genotype-by-genotype interactions between <i>Drosophila</i> and parasitoids. <i>PLoS Pathogens</i> , 2019, 15, e1008084.	2.1	7
100	Title is missing!. , 2020, 16, e1008864.		0
101	Title is missing!. , 2020, 16, e1008864.		0
102	Title is missing!. , 2020, 16, e1008864.		0
103	Title is missing!. , 2020, 16, e1008864.		0
104	Title is missing!. , 2020, 16, e1008864.		0
105	Title is missing!. , 2020, 16, e1008864.		0