

# Jeffrey R Powell

## List of Publications by Year in descending order

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100  
papers

8,118  
citations

81839

39  
h-index

54882

84  
g-index

105  
all docs

105  
docs citations

105  
times ranked

7714  
citing authors

#	ARTICLE	IF	CITATIONS
1	Population Genetic Analysis of <i>Aedes aegypti</i> Mosquitoes From Sudan Revealed Recent Independent Colonization Events by the Two Subspecies. <i>Frontiers in Genetics</i> , 2022, 13, 825652.	1.1	8
2	Genome-wide Association Study Reveals New Loci Associated With Pyrethroid Resistance in <i>Aedes aegypti</i> . <i>Frontiers in Genetics</i> , 2022, 13, 867231.	1.1	8
3	Evidence for serial founder events during the colonization of North America by the yellow fever mosquito, <i>Aedes aegypti</i> . <i>Ecology and Evolution</i> , 2022, 12, e8896.	0.8	5
4	Modifying mosquitoes to suppress disease transmission: Is the long wait over?. <i>Genetics</i> , 2022, 221, .	1.2	6
5	Origins of high latitude introductions of <i>Aedes aegypti</i> to Nebraska and Utah during 2019. <i>Infection, Genetics and Evolution</i> , 2022, 103, 105333.	1.0	3
6	A machine-learning approach to map landscape connectivity in <i>Aedes aegypti</i> with genetic and environmental data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	27
7	Increasing Effectiveness of Genetically Modifying Mosquito Populations: Risk Assessment of Releasing Blood-Fed Females. <i>American Journal of Tropical Medicine and Hygiene</i> , 2021, 104, 1895-1906.	0.6	1
8	Larval sites of the mosquito <i>Aedes aegypti formosus</i> in forest and domestic habitats in Africa and the potential association with oviposition evolution. <i>Ecology and Evolution</i> , 2021, 11, 16327-16343.	0.8	16
9	Climate and Urbanization Drive Mosquito Preference for Humans. <i>Current Biology</i> , 2020, 30, 3570-3579.e6.	1.8	153
10	Genetic structure of the mosquito <i>Aedes aegypti</i> in local forest and domestic habitats in Gabon and Kenya. <i>Parasites and Vectors</i> , 2020, 13, 417.	1.0	16
11	Sunshine versus gold: The effect of population age on genetic structure of an invasive mosquito. <i>Ecology and Evolution</i> , 2020, 10, 9588-9599.	0.8	4
12	Improved reference genome of the arboviral vector <i>Aedes albopictus</i> . <i>Genome Biology</i> , 2020, 21, 215.	3.8	65
13	Genetic evidence for the origin of <i>Aedes aegypti</i> , the yellow fever mosquito, in the southwestern Indian Ocean. <i>Molecular Ecology</i> , 2020, 29, 3593-3606.	2.0	45
14	From Anonymous to Public Enemy: How Does a Mosquito Become a Feared Arbovirus Vector?. <i>Pathogens</i> , 2020, 9, 265.	1.2	20
15	Editorial Expression of Concern: Transgenic <i>Aedes aegypti</i> Mosquitoes Transfer Genes into a Natural Population. <i>Scientific Reports</i> , 2020, 10, 5524.	1.6	7
16	Quantifying the efficacy of genetic shifting in control of mosquito-borne diseases. <i>Evolutionary Applications</i> , 2019, 12, 1552-1568.	1.5	4
17	Transgenic <i>Aedes aegypti</i> Mosquitoes Transfer Genes into a Natural Population. <i>Scientific Reports</i> , 2019, 9, 13047.	1.6	109
18	An Evolutionary Perspective on Vector-Borne Diseases. <i>Frontiers in Genetics</i> , 2019, 10, 1266.	1.1	26

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19	Genetic diversity of laboratory strains and implications for research: The case of <i>Aedes aegypti</i> . PLoS Neglected Tropical Diseases, 2019, 13, e0007930.	1.3	33
20	<i>Aedes aegypti</i> vector competence studies: A review. Infection, Genetics and Evolution, 2019, 67, 191-209.	1.0	251
21	Improved reference genome of <i>Aedes aegypti</i> informs arbovirus vector control. Nature, 2018, 563, 501-507.	13.7	426
22	Recent History of <i>Aedes aegypti</i> : Vector Genomics and Epidemiology Records. BioScience, 2018, 68, 854-860.	2.2	142
23	Mosquito-Borne Human Viral Diseases: Why <i>Aedes aegypti</i> ?. American Journal of Tropical Medicine and Hygiene, 2018, 98, 1563-1565.	0.6	110
24	Genetic Variation in Insect Vectors: Death of Typology?. Insects, 2018, 9, 139.	1.0	23
25	<i>Aedes aegypti</i> in the Black Sea: recent introduction or ancient remnant?. Parasites and Vectors, 2018, 11, 396.	1.0	39
26	Population structure of a vector of human diseases: <i>Aedes aegypti</i> in its ancestral range, Africa. Ecology and Evolution, 2018, 8, 7835-7848.	0.8	57
27	Lack of Evidence for Natural Wolbachia Infections in <i>Aedes aegypti</i> (Diptera: Culicidae). Journal of Medical Entomology, 2018, 55, 1354-1356.	0.9	60
28	Altered vector competence in an experimental mosquito-mouse transmission model of Zika infection. PLoS Neglected Tropical Diseases, 2018, 12, e0006350.	1.3	11
29	Origin of a High-Latitude Population of <i>Aedes aegypti</i> in Washington, DC. American Journal of Tropical Medicine and Hygiene, 2018, 98, 445-452.	0.6	36
30	Effective population sizes of a major vector of human diseases, <i>Aedes aegypti</i> . Evolutionary Applications, 2017, 10, 1031-1039.	1.5	47
31	How Much Does Inbreeding Reduce Heterozygosity? Empirical Results from <i>Aedes aegypti</i> . American Journal of Tropical Medicine and Hygiene, 2017, 96, 157-158.	0.6	13
32	Tracking the return of <i>Aedes aegypti</i> to Brazil, the major vector of the dengue, chikungunya and Zika viruses. PLoS Neglected Tropical Diseases, 2017, 11, e0005653.	1.3	77
33	Multiple introductions of the dengue vector, <i>Aedes aegypti</i> , into California. PLoS Neglected Tropical Diseases, 2017, 11, e0005718.	1.3	65
34	New contender for most lethal animal. Nature, 2016, 540, 525-525.	13.7	13
35	Global genetic diversity of <i>Aedes aegypti</i> . Molecular Ecology, 2016, 25, 5377-5395.	2.0	195
36	Mosquitoes on the move. Science, 2016, 354, 971-972.	6.0	39

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37	A Multipurpose, High-Throughput Single-Nucleotide Polymorphism Chip for the Dengue and Yellow Fever Mosquito, <i>Aedes aegypti</i> . <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 711-718.	0.8	56
38	Effects of Codon Usage on Gene Expression: Empirical Studies on <i>Drosophila</i> . <i>Journal of Molecular Evolution</i> , 2015, 80, 219-226.	0.8	16
39	Genetic Diversity of Brazilian <i>Aedes aegypti</i> : Patterns following an Eradication Program. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e3167.	1.3	47
40	Origin of the Dengue Fever Mosquito, <i>Aedes aegypti</i> , in California. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e3029.	1.3	66
41	Mario Coluzzi (1938–2012). <i>Malaria Journal</i> , 2014, 13, 10.	0.8	12
42	HUMAN IMPACTS HAVE SHAPED HISTORICAL AND RECENT EVOLUTION IN <i>AEDES AEGYPTI</i> , THE DENGUE AND YELLOW FEVER MOSQUITO. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 514-525.	1.1	225
43	Genetic shifting: a novel approach for controlling vector-borne diseases. <i>Trends in Parasitology</i> , 2014, 30, 282-288.	1.5	19
44	History of domestication and spread of <i>Aedes aegypti</i> - A Review. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2013, 108, 11-17.	0.8	416
45	Nonrecombining Genes in a Recombination Environment: The <i>Drosophila</i> "Dot" Chromosome. <i>Molecular Biology and Evolution</i> , 2011, 28, 825-833.	3.5	10
46	<i>Aedes aegypti</i> Mosquitoes Imported into the Netherlands, 2010. <i>Emerging Infectious Diseases</i> , 2011, 17, 2335-2337.	2.0	45
47	Worldwide patterns of genetic differentiation imply multiple "domestications" of <i>Aedes aegypti</i> , a major vector of human diseases. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 2446-2454.	1.2	213
48	On the Possible Role of tRNA Base Modifications in the Evolution of Codon Usage: Queuosine and <i>Drosophila</i> . <i>Journal of Molecular Evolution</i> , 2010, 70, 339-345.	0.8	9
49	A test of the chromosomal theory of ecotypic speciation in <i>Anopheles gambiae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 2940-2945.	3.3	74
50	Developmental Stage and Level of Codon Usage Bias in <i>Drosophila</i> . <i>Molecular Biology and Evolution</i> , 2008, 25, 2269-2277.	3.5	20
51	Evolution of genes and genomes on the <i>Drosophila</i> phylogeny. <i>Nature</i> , 2007, 450, 203-218.	13.7	1,886
52	Codon usage in twelve species of <i>Drosophila</i> . <i>BMC Evolutionary Biology</i> , 2007, 7, 226.	3.2	197
53	Giant tortoises. <i>Current Biology</i> , 2006, 16, R144-R145.	1.8	7
54	FEMALE STERILITY IN HYBRIDS BETWEEN <i>ANOPHELES GAMBIAE</i> AND <i>A. ARABIENSIS</i> , AND THE CAUSES OF HALDANE'S RULE. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 1016-1026.	1.1	40

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55	Analysis of a Shift in Codon Usage in <i>Drosophila</i> . <i>Journal of Molecular Evolution</i> , 2003, 57, S214-S225.	0.8	52
56	The origin of captive Galápagos tortoises based on DNA analysis: implications for the management of natural populations. <i>Animal Conservation</i> , 2003, 6, 329-337.	1.5	28
57	Population structure, speciation, and introgression in the <i>Anopheles gambiae</i> complex. <i>Parassitologia</i> , 1999, 41, 101-113.	0.5	95
58	A Molecular Phylogeny of the <i>Drosophila willistoni</i> Group: Conflicts Between Species Concepts?. <i>Evolution; International Journal of Organic Evolution</i> , 1998, 52, 1093.	1.1	24
59	A MOLECULAR PHYLOGENY OF THE <i>DROSOPHILA WILLISTONI</i> GROUP: CONFLICTS BETWEEN SPECIES CONCEPTS?. <i>Evolution; International Journal of Organic Evolution</i> , 1998, 52, 1093-1103.	1.1	39
60	Multiple Origins of Cytologically Identical Chromosome Inversions in the <i>Anopheles gambiae</i> Complex. <i>Genetics</i> , 1998, 150, 807-814.	1.2	31
61	MITOCHONDRIAL DNA PHYLOGENIES FOR THE <i>DROSOPHILA OBSCURA</i> GROUP. <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 433-440.	1.1	34
62	Evolution of codon usage bias in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 7784-7790.	3.3	314
63	Adh Nucleotide Variation in <i>Drosophila willistoni</i> : High Replacement Polymorphism in an Electrophoretically Monomorphic Protein. <i>Journal of Molecular Evolution</i> , 1997, 45, 232-237.	0.8	10
64	Synonymous substitution rates in <i>Drosophila</i> : Mitochondrial versus nuclear genes. <i>Journal of Molecular Evolution</i> , 1997, 45, 378-391.	0.8	189
65	Codon Usage Bias and tRNA Abundance in <i>Drosophila</i> . <i>Journal of Molecular Evolution</i> , 1997, 45, 514-523.	0.8	292
66	Inversion Monophyly in African Anopheline Malaria Vectors. <i>Genetics</i> , 1996, 143, 1313-1320.	1.2	33
67	<i>Drosophila</i> Molecular Phylogenies and Their Uses. , 1995, , 87-138.		83
68	Molecular biogeography: using the Corsica-Sardinia microplate disjunction to calibrate mitochondrial rDNA evolutionary rates in mountain newts ( <i>Euproctus</i> ). <i>Journal of Evolutionary Biology</i> , 1994, 7, 227-245.	0.8	64
69	EXFOLIATED CELLS AS THE MOST ACCESSIBLE DNA SOURCE FOR CAPTIVE WHALES and DOLPHINS. <i>Marine Mammal Science</i> , 1994, 10, 125-128.	0.9	4
70	Reassociation Kinetics of <i>Anopheles gambiae</i> (Diptera: Culicidae) DNA. <i>Journal of Medical Entomology</i> , 1992, 29, 125-128.	0.9	63
71	TEMPORAL STABILITY OF THIRD-CHROMOSOME INVERSION FREQUENCIES IN <i>DROSOPHILA PERSIMILIS</i> AND <i>D. PSEUDOOBSCURA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1992, 46, 1558-1563.	1.1	9
72	Molecular approaches to systematics and phylogeny reconstruction. <i>Bollettino Di Zoologia</i> , 1991, 58, 295-298.	0.3	3

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73	EVOLUTIONARY IMPLICATIONS OF DNA DIVERGENCE IN THE DROSOPHILA OBSCURA GROUP. <i>Evolution; International Journal of Organic Evolution</i> , 1990, 44, 1656-1670.	1.1	40
74	The TEACL method of DNA-DNA hybridization: Technical considerations. <i>Journal of Molecular Evolution</i> , 1990, 30, 267-272.	0.8	27
75	Extreme rates and heterogeneity in insect DNA evolution. <i>Journal of Molecular Evolution</i> , 1990, 30, 273-280.	0.8	38
76	DNA DIVERGENCE AMONG HOMINOIDS. <i>Evolution; International Journal of Organic Evolution</i> , 1989, 43, 925-942.	1.1	178
77	MOLECULAR EVOLUTIONARY DIVERGENCE AMONG NORTH AMERICAN CAVE CRICKETS. II. DNA-DNA HYBRIDIZATION. <i>Evolution; International Journal of Organic Evolution</i> , 1987, 41, 1215-1238.	1.1	34
78	Anecdotal, Historical and Critical Commentaries on Genetics : "In the Air"â€”Theodosius Dobzhansky's <i>Genetics and the Origin of Species</i> . <i>Genetics</i> , 1987, 117, 363-366.	1.2	9
79	GENETIC VARIATION FOR DISPERSAL BY DROSOPHILA PSEUDOOBSCURA AND DROSOPHILA PERSIMILIS. <i>Genetics</i> , 1986, 112, 229-235.	1.2	8
80	FOUNDER-FLUSH SPECIATION: AN UPDATE OF EXPERIMENTAL RESULTS WITH <i>DROSOPHILA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1985, 39, 1388-1392.	1.1	49
81	DISPERSAL RATES OF SPECIES OF THE <i>DROSOPHILA OBSCURA</i> GROUP: IMPLICATIONS FOR POPULATION STRUCTURE. <i>Evolution; International Journal of Organic Evolution</i> , 1984, 38, 1397-1401.	1.1	18
82	POPULATION GENETICS OF DROSOPHILA AMYLASE. V. GENETIC BACKGROUND AND SELECTION ON DIFFERENT CARBOHYDRATES. <i>Genetics</i> , 1984, 106, 625-629.	1.2	13
83	Genetic Heterogeneity among Caribbean Populations of <i>Aedes aegypti</i> . <i>American Journal of Tropical Medicine and Hygiene</i> , 1984, 33, 492-498.	0.6	33
84	A simplified procedure for studying mtDNA polymorphisms. <i>Biochemical Genetics</i> , 1983, 21, 1051-1055.	0.8	31
85	Macrogeographic genetic variation in a human commensal: <i>Aedes aegypti</i> , the yellow fever mosquito. <i>Genetical Research</i> , 1983, 41, 241-258.	0.3	53
86	POPULATION GENETICS OF DROSOPHILA AMYLASE. IV. SELECTION IN LABORATORY POPULATIONS MAINTAINED ON DIFFERENT CARBOHYDRATES. <i>Genetics</i> , 1983, 103, 675-689.	1.2	40
87	POPULATION GENETICS OF <i>DROSOPHILA</i> AMYLASE III. INTERSPECIFIC VARIATION. <i>Evolution; International Journal of Organic Evolution</i> , 1980, 34, 209-213.	1.1	28
88	A world-wide survey of genetic variation in the yellow fever mosquito, <i>Aedes aegypti</i> . <i>Genetical Research</i> , 1979, 34, 215-229.	0.3	136
89	GENETIC DISTINCTNESS OF SYMPATRIC FORMS OF AEDES AEGYPTI IN EAST AFRICA. <i>Evolution; International Journal of Organic Evolution</i> , 1979, 33, 287-295.	1.1	50
90	POPULATION GENETICS OF DROSOPHILA AMYLASE. I. GENETIC CONTROL OF TISSUE-SPECIFIC EXPRESSION IN <i>D. PSEUDOOBSCURA</i> . <i>Genetics</i> , 1979, 92, 603-612.	1.2	44

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91	POPULATION GENETICS OF DROSOPHILA AMYLASE. II. GEOGRAPHIC PATTERNS IN <i>D. PSEUDOOBSCURA</i> . <i>Genetics</i> , 1979, 92, 613-622.	1.2	26
92	Habitat choice in natural populations of <i>Drosophila</i> . <i>Oecologia</i> , 1978, 37, 69-75.	0.9	50
93	Genetic structure of the East African domestic populations of <i>Aedes aegypti</i> . <i>Nature</i> , 1978, 272, 535-537.	13.7	45
94	THE FOUNDER-FLUSH SPECIATION THEORY: AN EXPERIMENTAL APPROACH. <i>Evolution; International Journal of Organic Evolution</i> , 1978, 32, 465-474.	1.1	146
95	ADAPTIVE FLEXIBILITY OF "MARGINAL" VERSUS "CENTRAL" POPULATIONS OF <i>DROSOPHILA WILLISTONI</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1977, 31, 692-694.	1.1	10
96	MICROGEOGRAPHIC DIFFERENTIATION OF CHROMOSOMAL AND ENZYME POLYMORPHISMS IN <i>DROSOPHILA PERSIMILIS</i> . <i>Genetics</i> , 1977, 85, 681-695.	1.2	64
97	<i>Drosophila pseudoobscura</i> and Its American Relatives, <i>Drosophila persimilis</i> and <i>Drosophila miranda</i> . , 1975, , 537-587.		21
98	Interaction of genetic loci: the effect of linkage disequilibria on hardy-weinberg expectations. <i>Heredity</i> , 1974, 32, 151-158.	1.2	4
99	Heterosis at an enzyme locus of <i>drosophila</i> : evidence from experimental populations. <i>Heredity</i> , 1974, 32, 105-108.	1.2	5
100	APPARENT SELECTION OF ENZYME ALLELES IN LABORATORY POPULATIONS OF <i>DROSOPHILA</i> . <i>Genetics</i> , 1973, 75, 557-570.	1.2	20