Stephen L Dobson

List of Publications by Year
in descending order

77 papers	6,047 citations	109321 35 h-index	76900 74 g-index
78 all docs	78 docs citations	78 times ranked	4739 citing authors

#	Article	IF	Citations
1	Genome-wide analysis of the interaction between the endosymbiotic bacterium Wolbachia and its Drosophila host. BMC Genomics, 2008, 9, 1.	2.8	622
2	Cloning and Characterization of a Gene Encoding the Major Surface Protein of the Bacterial Endosymbiont Wolbachia pipientis. Journal of Bacteriology, 1998, 180, 2373-2378.	2.2	593
3	Wolbachia Establishment and Invasion in an Aedes aegypti Laboratory Population. Science, 2005, 310, 326-328.	12.6	456
4	Sterile-Insect Methods for Control of Mosquito-Borne Diseases: An Analysis. Vector-Borne and Zoonotic Diseases, 2010, 10, 295-311.	1.5	432
5	Wolbachia infections are distributed throughout insect somatic and germ line tissues. Insect Biochemistry and Molecular Biology, 1999, 29, 153-160.	2.7	345
6	Harnessing mosquitoâ€“Wolbachia symbiosis for vector and disease control. Acta Tropica, 2014, 132, S150-S163.	2.0	284
7	Efficient production of male Wolbachia-infected Aedes aegypti mosquitoes enables large-scale suppression of wild populations. Nature Biotechnology, 2020, 38, 482-492.	17.5	225
8	Open Release of Male Mosquitoes Infected with a Wolbachia Biopesticide: Field Performance and Infection Containment. PLoS Neglected Tropical Diseases, 2012, 6, e1797.	3.0	181
9	The effect ofWolbachia-induced cytoplasmic incompatibility on host population size in natural and manipulated systems. Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 437-445.	2.6	160
10	Rescuing Wolbachia have been overlookedâ…. Nature, 1998, 391, 852-853.	27.8	159
11	Mutualistic Wolbachia Infection in Aedes albopictus: Accelerating Cytoplasmic Drive. Genetics, 2002, 160, 1087-1094.	2.9	159
12	Fitness advantage and cytoplasmic incompatibility in Wolbachia single- and superinfected Aedes albopictus. Heredity, 2004, 93, 135-142.	2.6	149
13	Female Adult Aedes albopictus Suppression by Wolbachia-Infected Male Mosquitoes. Scientific Reports, 2016, 6, 33846.	3.3	127
14	Generation of a novel Wolbachia infection in Aedes albopictus (Asian tiger mosquito) via embryonic microinjection. Insect Biochemistry and Molecular Biology, 2005, 35, 903-910.	2.7	108
15	Wolbachia endosymbionts and human disease control. Molecular and Biochemical Parasitology, 2014, 195, 88-95.	1.1	104
16	Localized Control of Aedes aegypti (Diptera: Culicidae) in Miami, FL, via Inundative Releases of Wolbachia-Infected Male Mosquitoes. Journal of Medical Entomology, 2019, 56, 1296-1303.	1.8	91
17	Guidance for Contained Field Trials of Vector Mosquitoes Engineered to Contain a Gene Drive System: Recommendations of a Scientific Working Group. Vector-Borne and Zoonotic Diseases, 2008, 8, 127-166.	1.5	89
18	Reversing Wolbachia-based population replacement. Trends in Parasitology, 2003, 19, 128-133.	3.3	86

#	Article	IF	Citations
19	Characterization of Wolbachia Host Cell Range via the In Vitro Establishment of Infections. Applied and Environmental Microbiology, 2002, 68, 656-660.	3.1	84
20	<I>Wolbachia</I>-Induced Cytoplasmic Incompatibility in Single- and Superinfected <I>Aedes albopictus</I> (Diptera: Culicidae). Journal of Medical Entomology, 2001, 38, 382-387.	1.8	77
21	Interspecific transfer of Wolbachia into the mosquito disease vector Aedes albopictus. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 1317-1322.	2.6	76
22	Evidence for a Genomic Imprinting Sex Determination Mechanism in Nasonia vitripennis (Hymenoptera;) Tj ETQq0 0 0 rgBT /Overlock 10	2.9	73
23	Interspecific Hybridization Yields Strategy for South Pacific Filariasis Vector Elimination. PLoS Neglected Tropical Diseases, 2008, 2, e129.	3.0	70
24	Pathogenicity of Life-Shortening Wolbachia in Aedes albopictus after Transfer from Drosophila melanogaster. Applied and Environmental Microbiology, 2009, 75, 7783-7788.	3.1	68
25	Characterization of a New <I>Aedes albopictus</I> (Diptera: Culicidae)â€“<I>Wolbachia pipientis</I> (Rickettsiales: Rickettsiaceae) Symbiotic Association Generated by Artificial Transfer of the <I>w</I>Pip Strain From <I>Culex pipiens</I> (Diptera: Culicidae). Journal of Medical Entomology, 2010, 47, 179-187.	1.8	68
26	A Novel Technique for RemovingWolbachiaInfections fromAedes albopictus(Diptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.8	62
27	Wolbachia strain w Pip yields a pattern of cytoplasmic incompatibility enhancing a Wolbachia- based suppression strategy against the disease vector Aedes albopictus. Parasites and Vectors, 2012, 5, 254.	2.5	58
28	Male Mating Competitiveness of a Wolbachia-Introgressed Aedes polynesiensis Strain under Semi-Field Conditions. PLoS Neglected Tropical Diseases, 2011, 5, e1271.	3.0	58
29	Molecular Xenomonitoring Using Mosquitoes to Map Lymphatic Filariasis after Mass Drug Administration in American Samoa. PLoS Neglected Tropical Diseases, 2014, 8, e3087.	3.0	52
30	Characterization of a NewAedes albopictus(Diptera: Culicidae)-Wolbachia pipientis(Rickettsiales:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 pipiens(Diptera: Culicidae). Journal of Medical Entomology, 2010, 47, 179-187.	1.8	48
31	Costs and benefits of Wolbachia infection in immature Aedes albopictus depend upon sex and competition level. Journal of Invertebrate Pathology, 2010, 105, 341-346.	3.2	48
32	Integration of irradiation with cytoplasmic incompatibility to facilitate a lymphatic filariasis vector elimination approach. Parasites and Vectors, 2009, 2, 38.	2.5	47
33	Reactive Oxygen Species Production and Brugia pahangi Survivorship in Aedes polynesiensis with Artificial Wolbachia Infection Types. PLoS Pathogens, 2012, 8, e1003075.	4.7	44
34	Characterization of Wolbachia Transfection Efficiency by Using Microinjection of Embryonic Cytoplasm and Embryo Homogenate. Applied and Environmental Microbiology, 2005, 71, 3199-3204.	3.1	40
35	Artificial Triple Wolbachia Infection in Aedes albopictus Yields a New Pattern of Unidirectional Cytoplasmic Incompatibility. Applied and Environmental Microbiology, 2010, 76, 5887-5891.	3.1	38
36	Digital Image Analysis to Estimate Numbers of Aedes Eggs Oviposited in Containers. Journal of the American Mosquito Control Association, 2008, 24, 496-501.	0.7	36

#	Article	IF	Citations
37	WO bacteriophage transcription in Wolbachia-infected Culex pipiens. Insect Biochemistry and Molecular Biology, 2006, 36, 80-85.	2.7	35
38	Molecular discrimination of Wolbachia in the Culex pipiens complex: evidence for variable bacteriophage hyperparasitism. Insect Molecular Biology, 2004, 13, 365-369.	2.0	34
39	Male Mosquitoes as Vehicles for Insecticide. PLoS Neglected Tropical Diseases, 2015, 9, e0003406.	3.0	34
40	WolbachiaEffects on Host Fitness and the Influence of Male Aging on Cytoplasmic Incompatibility inAedes polynesiensis(Diptera: Culicidae). Journal of Medical Entomology, 2011, 48, 1008-1015.	1.8	31
41	Wolbachia infections that reduce immature insect survival: Predicted impacts on population replacement. BMC Evolutionary Biology, 2011, 11, 290.	3.2	30
42	Characterization ofWolbachiaInfections and Interspecific Crosses ofAedes(Stegomyia)polynesiensisandAe.(Stegomyia)riversi(Diptera: Culicidae). Journal of Medical Entomology, 2004, 41, 894-900.	1.8	29
43	EVOLUTION OF WOLBACHIA CYTOPLASMIC INCOMPATIBILITY TYPES. Evolution; International Journal of Organic Evolution, 2004, 58, 2156-2166.	2.3	29
44	WolbachiaInfection and Resource Competition Effects on ImmatureAedes albopictus(Diptera: Culicidae). Journal of Medical Entomology, 2009, 46, 451-459.	1.8	29
45	<I>Wolbachia</I> Effects on <I>Aedes albopictus</I> (Diptera: Culicidae) Immature Survivorship and Development. Journal of Medical Entomology, 2006, 43, 689-695.	1.8	23
46	Determinants of Male <I>Aedes aegypti</I> and <I>Aedes polynesiensis</I> (Diptera: Culicidae) Response to Sound: Efficacy and Considerations for Use of Sound Traps in the Field. Journal of Medical Entomology, 2013, 50, 723-730.	1.8	23
47	WolbachiaEffects onAedes albopictus(Diptera: Culicidae) Immature Survivorship and Development. Journal of Medical Entomology, 2006, 43, 689-695.	1.8	22
48	Population genetic structure of Aedes polynesiensis in the Society Islands of French Polynesia: implications for control using a Wolbachia- based autocidal strategy. Parasites and Vectors, 2012, 5, 80.	2.5	21
49	The paternal sex ratio chromosome induces chromosome loss independently of Wolbachia in the wasp Nasonia vitripennis. Development Genes and Evolution, 1996, 206, 207-217.	0.9	19
50	Monitoring Temporal Abundance and Spatial Distribution ofAedes polynesiensisUsing BG-Sentinel Traps in Neighboring Habitats on Raiatea, Society Archipelago, French Polynesia. Journal of Medical Entomology, 2012, 49, 51-60.	1.8	18
51	A highly stable blood meal alternative for rearing Aedes and Anopheles mosquitoes. PLoS Neglected Tropical Diseases, 2017, 11, e0006142.	3.0	18
52	Disruption of the Wolbachia surface protein gene wspB by a transposable element in mosquitoes of the Culex pipiens complex (Diptera, Culicidae). Insect Molecular Biology, 2007, 16, 143-154.	2.0	17
53	Interspecific movement of the paternal sex ratio chromosome. Heredity, 1998, 81, 261-269.	2.6	15
54	Reduced competitiveness of Wolbachia infected Aedes aegypti larvae in intra- and inter-specific immature interactions. Journal of Invertebrate Pathology, 2013, 114, 173-177.	3.2	15

#	Article	IF	Citations
55	Aedes aegypti Males as Vehicles for Insecticide Delivery. Insects, 2019, 10, 230.	2.2	15
56	When More is Less: Mosquito Population Suppression Using Sterile, Incompatible and Genetically Modified Male Mosquitoes. Journal of Medical Entomology, 2021, 58, 1980-1986.	1.8	13
57	Estimation of Population Size and Dispersal ofAedes polynesiensison Toamaromotu, French Polynesia. Journal of Medical Entomology, 2012, 49, 971-980.	1.8	12
58	Population impacts ofWolbachiaonAedes albopictus. , 2013, 23, 493-501.		12
59	Interaction ofWolbachiaand Bloodmeal Type in Artificially InfectedAedes albopictus(Diptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.8	12
60	No Evidence for Bacteriophage WO orf7 Correlation withWolbachia-Induced Cytoplasmic Incompatibility in theCulex pipiensComplex (Culicidae: Diptera). Journal of Medical Entomology, 2005, 42, 789-794.	1.8	11
61	No Evidence for Bacteriophage WO orf7 Correlation with <I>Wolbachia</I>-Induced Cytoplasmic Incompatibility in the <I>Culex pipiens</I> Complex (Culicidae: Diptera). Journal of Medical Entomology, 2005, 42, 789-794.	1.8	11
62	Wolbachia mosquito control: Regulated. Science, 2016, 352, 526-527.	12.6	11
63	Life-shortening Wolbachia infection reduces population growth of Aedes aegypti. Acta Tropica, 2017, 172, 232-239.	2.0	11
64	Methoprene Effects on Survival and Reproductive Performance of Adult Female and MaleAedes aegypti. Journal of the American Mosquito Control Association, 2013, 29, 369-375.	0.7	10
65	Landing response of Aedes (Stegomyia) polynesiensis mosquitoes to coloured targets. Medical and Veterinary Entomology, 2013, 27, 332-338.	1.5	9
66	Wolbachia Pipientis. Contemporary Topics in Entomology Series, 2003, , 199-216.	0.3	9
67	Swarming Behavior of <I>Aedes polynesiensis</I> (Diptera: Culicidae) and Characterization of Swarm Markers in American Samoa. Journal of Medical Entomology, 2013, 50, 740-747.	1.8	8
68	Infections of Wolbachia may destabilize mosquito population dynamics. Journal of Theoretical Biology, 2017, 428, 98-105.	1.7	8
69	Infection, growth and maintenance ofWolbachia pipientisin clonal and non-clonalAedes albopictuscell cultures. Bulletin of Entomological Research, 2013, 103, 251-260.	1.0	7
70	SYTO11 staining vs FISH staining: a comparison of two methods to stain Wolbachia pipientis in cell cultures. Letters in Applied Microbiology, 2011, 52, 168-176.	2.2	6
71	EVOLUTION OF WOLBACHIA CYTOPLASMIC INCOMPATIBILITY TYPES. Evolution; International Journal of Organic Evolution, 2004, 58, 2156.	2.3	5
72	Transfection ofWolbachia pipientisintoDrosophilaEmbryos. Current Protocols in Microbiology, 2007, 5, Unit 3A.4.	6.5	4

#	Article	IF	Citations
73	Interspecific movement of the paternal sex ratio chromosome. Heredity, 1998, 81, 261-269.	2.6	3
74	<I>Wolbachia</I> Re-Replacement Without Incompatibility: Potential for Intended and Unintended Consequences. Journal of Medical Entomology, 2013, 50, 1152-1158.	1.8	2
75	The Effects of Boric Acid Sugar Bait on Wolbachia Trans-Infected Male Aedes albopictus (ZAP MalesÂ®) in Laboratory Conditions. Insects, 2022, 13, 1.	2.2	2
76	Reply to: Assessing the efficiency of Verilyâ€™s automated process for production and release of male Wolbachia-infected mosquitoes. Nature Biotechnology, 2022, 40, 1443-1446.	17.5	2
77	Interspecific Transfer of a <I>Wolbachia</I> Infection Into <I>Aedes albopictus</I> (Diptera: Culicidae) Yields a Novel Phenotype Capable of Rescuing a Superinfection. Journal of Medical Entomology, 2014, 51, 1192-1198.	1.8	0