Seth R Bordenstein

List of Publications by Year
in descending order

109 papers	11,726 citations	36303 51 h-index	32842 100 g-index
127 all docs	127 docs citations	127 times ranked	11064 citing authors

#	Article	IF	Citations
1	Host Biology in Light of the Microbiome: Ten Principles of Holobionts and Hologenomes. PLoS Biology, 2015, 13, e1002226.	5.6	868
2	Functional and Evolutionary Insights from the Genomes of Three Parasitoid <i>Nasonia</i> Species. Science, 2010, 327, 343-348.	12.6	808
3	Multilocus Sequence Typing System for the Endosymbiont Wolbachia pipientis. Applied and Environmental Microbiology, 2006, 72, 7098-7110.	3.1	730
4	Mom Knows Best: The Universality of Maternal Microbial Transmission. PLoS Biology, 2013, 11, e1001631.	5.6	649
5	Phylosymbiosis: Relationships and Functional Effects of Microbial Communities across Host Evolutionary History. PLoS Biology, 2016, 14, e2000225.	5.6	475
6	Minimum Information about an Uncultivated Virus Genome (MIUViG). Nature Biotechnology, 2019, 37, 29-37.	17.5	414
7	Wolbachia-induced incompatibility precedes other hybrid incompatibilities in Nasonia. Nature, 2001, 409, 707-710.	27.8	392
8	Getting the Hologenome Concept Right: an Eco-Evolutionary Framework for Hosts and Their Microbiomes. MSystems, 2016, 1, .	3.8	388
9	The Hologenomic Basis of Speciation: Gut Bacteria Cause Hybrid Lethality in the Genus <i>Nasonia</i>. Science, 2013, 341, 667-669.	12.6	379
10	Prophage WO genes recapitulate and enhance Wolbachia-induced cytoplasmic incompatibility. Nature, 2017, 543, 243-247.	27.8	366
11	Speciation by symbiosis. Trends in Ecology and Evolution, 2012, 27, 443-451.	8.7	326
12	Gut microbiota diversity across ethnicities in the United States. PLoS Biology, 2018, 16, e2006842.	5.6	216
13	Widespread Recombination Throughout Wolbachia Genomes. Molecular Biology and Evolution, 2006, 23, 437-449.	8.9	209
14	Bacteriophage Flux in Endosymbionts (Wolbachia): Infection Frequency, Lateral Transfer, and Recombination Rates. Molecular Biology and Evolution, 2004, 21, 1981-1991.	8.9	178
15	THE ROLES OF HOST EVOLUTIONARY RELATIONSHIPS (GENUS:â€,NASONIA) AND DEVELOPMENT IN STRUCTURING MICROBIAL COMMUNITIES. Evolution; International Journal of Organic Evolution, 2012, 66, 349-362.	2.3	166
16	An introduction to phylosymbiosis. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20192900.	2.6	163
17	Living in the endosymbiotic world of Wolbachia: A centennial review. Cell Host and Microbe, 2021, 29, 879-893.	11.0	162
18	Mobile DNA in obligate intracellular bacteria. Nature Reviews Microbiology, 2005, 3, 688-699.	28.6	159

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19	The Tripartite Associations between Bacteriophage, Wolbachia, and Arthropods. PLoS Pathogens, 2006, 2, e43.	4.7	149
20	One prophage WO gene rescues cytoplasmic incompatibility in <i>Drosophila melanogaster</i>. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4987-4991.	7.1	148
21	Gut microbial ecology of lizards: insights into diversity in the wild, effects of captivity, variation across gut regions and transmission. Molecular Ecology, 2017, 26, 1175-1189.	3.9	144
22	Evolutionary Genetics of Cytoplasmic Incompatibility Genes cifA and cifB in Prophage WO of Wolbachia. Genome Biology and Evolution, 2018, 10, 434-451.	2.5	143
23	Eukaryotic association module in phage WO genomes from Wolbachia. Nature Communications, 2016, 7, 13155.	12.8	133
24	Fecal Transplants: What Is Being Transferred?. PLoS Biology, 2016, 14, e1002503.	5.6	128
25	Speciation by Symbiosis: the Microbiome and Behavior. MBio, 2016, 7, e01785.	4.1	120
26	Friends with social benefits: host-microbe interactions as a driver of brain evolution and development?. Frontiers in Cellular and Infection Microbiology, 2014, 4, 147.	3.9	118
27	Phage WO of Wolbachia: lambda of the endosymbiont world. Trends in Microbiology, 2010, 18, 173-181.	7.7	114
28	Temperature Affects the Tripartite Interactions between Bacteriophage WO, Wolbachia, and Cytoplasmic Incompatibility. PLoS ONE, 2011, 6, e29106.	2.5	108
29	Rethinking heritability of the microbiome. Science, 2015, 349, 1172-1173.	12.6	108
30	Disruption of the Termite Gut Microbiota and Its Prolonged Consequences for Fitness. Applied and Environmental Microbiology, 2011, 77, 4303-4312.	3.1	107
31	Discovery of a Novel Wolbachia Supergroup in Isoptera. Current Microbiology, 2005, 51, 393-398.	2.2	105
32	Correlations Between Bacterial Ecology and Mobile DNA. Current Microbiology, 2011, 62, 198-208.	2.2	93
33	Two-By-One model of cytoplasmic incompatibility: Synthetic recapitulation by transgenic expression of cifA and cifB in Drosophila. PLoS Genetics, 2019, 15, e1008221.	3.5	93
34	Effects of A and B Wolbachia and Host Genotype on Interspecies Cytoplasmic Incompatibility in Nasonia. Genetics, 1998, 148, 1833-1844.	2.9	92
35	Airway bacteria drive a progressive COPD-like phenotype in mice with polymeric immunoglobulin receptor deficiency. Nature Communications, 2016, 7, 11240.	12.8	91
36	Symbiont-mediated cytoplasmic incompatibility: What have we learned in 50 years?. ELife, 2020, 9, .	6.0	91

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37	Complete Bacteriophage Transfer in a Bacterial Endosymbiont (Wolbachia) Determined by Targeted Genome Capture. Genome Biology and Evolution, 2011, 3, 209-218.	2.5	89
38	Extensive genomic diversity of closely related Wolbachia strains. Microbiology (United Kingdom), 2009, 155, 2211-2222.	1.8	87
39	Parasitism and Mutualism in Wolbachia: What the Phylogenomic Trees Can and Cannot Say. Molecular Biology and Evolution, 2008, 26, 231-241.	8.9	86
40	Toward a Wolbachia Multilocus Sequence Typing System: Discrimination of Wolbachia Strains Present in Drosophila Species. Current Microbiology, 2006, 53, 388-395.	2.2	84
41	Host Genotype Determines Cytoplasmic Incompatibility Type in the Haplodiploid Genus Nasonia. Genetics, 2003, 164, 223-233.	2.9	84
42	Ankyrin domains across the Tree of Life. PeerJ, 2014, 2, e264.	2.0	81
43	Wolbachia: Can we save lives with a great pandemic?. Trends in Parasitology, 2013, 29, 385-393.	3.3	79
44	Microorganisms in the reproductive tissues of arthropods. Nature Reviews Microbiology, 2020, 18, 97-111.	28.6	74
45	Microbial communities exhibit host species distinguishability and phylosymbiosis along the length of the gastrointestinal tract. Molecular Ecology, 2018, 27, 1874-1883.	3.9	73
46	Antibacterial gene transfer across the tree of life. ELife, 2014, 3, .	6.0	66
47	The phage gene wmk is a candidate for male killing by a bacterial endosymbiont. PLoS Pathogens, 2019, 15, e1007936.	4.7	64
48	Lateral Phage Transfer in Obligate Intracellular Bacteria (Wolbachia): Verification from Natural Populations. Molecular Biology and Evolution, 2010, 27, 501-505.	8.9	63
49	Symbiosis And The Origin Of Species. Contemporary Topics in Entomology Series, 2003, , 283-304.	0.3	63
50	Tandem-repeat protein domains across the tree of life. PeerJ, 2015, 3, e732.	2.0	63
51	Do Wolbachia influence fecundity in Nasonia vitripennis?. Heredity, 2000, 84, 54-62.	2.6	58
52	Early life establishment of site-specific microbial communities in the gut. Gut Microbes, 2014, 5, 192-201.	9.8	55
53	Molecular Evolution of the <i>Helicobacter pylori</i> Vacuolating Toxin Gene <i>vacA</i>. Journal of Bacteriology, 2010, 192, 6126-6135.	2.2	51
54	The Maternal Effect Gene Wds Controls Wolbachia Titer in Nasonia. Current Biology, 2018, 28, 1692-1702.e6.	3.9	51

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55	Recent genome reduction of<i>Wolbachia</i>in<i>Drosophila recens</i>targets phage WO and narrows candidates for reproductive parasitism. PeerJ, 2014, 2, e529.	2.0	51
56	INTRASPECIFIC VARIATION IN SEXUAL ISOLATION IN THE JEWEL WASP NASONIA. Evolution; International Journal of Organic Evolution, 2000, 54, 567-573.	2.3	50
57	The capacious hologenome. Zoology, 2013, 116, 260-261.	1.2	50
58	Disentangling a Holobiont â€“ Recent Advances and Perspectives in Nasonia Wasps. Frontiers in Microbiology, 2016, 7, 1478.	3.5	48
59	Evolutionary Genomics of a Temperate Bacteriophage in an Obligate Intracellular Bacteria (Wolbachia). PLoS ONE, 2011, 6, e24984.	2.5	45
60	Decoupling of Hostâ€“Symbiontâ€“Phage Coadaptations Following Transfer Between Insect Species. Genetics, 2011, 187, 203-215.	2.9	43
61	Gut microbes limit growth in house sparrow nestlings (<i>Passer domesticus</i>) but not through limitations in digestive capacity. Integrative Zoology, 2018, 13, 139-151.	2.6	42
62	The Wolbachia mobilome in Culex pipiens includes a putative plasmid. Nature Communications, 2019, 10, 1051.	12.8	42
63	Parasite Microbiome Project: Systematic Investigation of Microbiome Dynamics within and across Parasite-Host Interactions. MSystems, 2017, 2, .	3.8	42
64	Physiological and microbial adjustments to diet quality permit facultative herbivory in an omnivorous lizard. Journal of Experimental Biology, 2016, 219, 1903-1912.	1.7	38
65	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 tayloriâ€™, â€˜Candidatus Wolbachia collembolicolaâ€™ and â€˜Candidatus Wolbachia multihospitumâ€™ for the different species within Wolbachia supergroupsâ€. Systematic and Applied Microbiology, 2016, 39, 220-222.	2.8	37
66	Paternal Grandmother Age Affects the Strength of <i>Wolbachia</i> -Induced Cytoplasmic Incompatibility in Drosophila melanogaster. MBio, 2019, 10, .	4.1	37
67	Comparative Genomics of Two Closely Related<i>Wolbachia</i>with Different Reproductive Effects on Hosts. Genome Biology and Evolution, 2016, 8, 1526-1542.	2.5	35
68	New criteria for selecting the origin of DNA replication in Wolbachia and closely related bacteria. BMC Genomics, 2007, 8, 182.	2.8	34
69	Microbe Profile: Wolbachia: a sex selector, a viral protector and a target to treat filarial nematodes. Microbiology (United Kingdom), 2018, 164, 1345-1347.	1.8	34
70	Models and Nomenclature for Cytoplasmic Incompatibility: Caution over Premature Conclusions â€“ A Response to Beckmann et al.. Trends in Genetics, 2019, 35, 397-399.	6.7	33
71	The complexity of virus systems: the case of endosymbionts. Current Opinion in Microbiology, 2012, 15, 546-552.	5.1	32
72	Racial Differences in the Oral Microbiome: Data from Low-Income Populations of African Ancestry and European Ancestry. MSystems, 2019, 4, .	3.8	32

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73	Phylosymbiosis Impacts Adaptive Traits in <i>Nasonia</i> Wasps. MBio, 2019, 10, .	4.1	31
74	The impacts of cytoplasmic incompatibility factor (<i>cifA</i> and <i>cifB</i>) genetic variation on phenotypes. Genetics, 2021, 217, 1-13.	2.9	31
75	The relative importance of DNA methylation and<i>Dnmt2</i>-mediated epigenetic regulation on<i>Wolbachia</i>densities and cytoplasmic incompatibility. PeerJ, 2014, 2, e678.	2.0	30
76	Comparative Genomic Analysis of East Asian and Non-Asian Helicobacter pylori Strains Identifies Rapidly Evolving Genes. PLoS ONE, 2013, 8, e55120.	2.5	27
77	Finer-Scale Phylosymbiosis: Insights from Insect Viromes. MSystems, 2018, 3, .	3.8	27
78	Cigarette smoking and oral microbiota in low-income and African-American populations. Journal of Epidemiology and Community Health, 2019, 73, 1108-1115.	3.7	26
79	<i>Wolbachia</i>co-infection in a hybrid zone: discovery of horizontal gene transfers from two<i>Wolbachia</i>supergroups into an animal genome. PeerJ, 2015, 3, e1479.	2.0	26
80	Absence of wolbachia in nonfilariid nematodes. Journal of Nematology, 2003, 35, 266-70.	0.9	26
81	Evolution-guided mutagenesis of the cytoplasmic incompatibility proteins: Identifying CifAâ€™s complex functional repertoire and new essential regions in CifB. PLoS Pathogens, 2020, 16, e1008794.	4.7	25
82	The Cif proteins from Wolbachia prophage WO modify sperm genome integrity to establish cytoplasmic incompatibility. PLoS Biology, 2022, 20, e3001584.	5.6	25
83	Genome Evolution in an Insect Cell: Distinct Features of an Ant-Bacterial Partnership. Biological Bulletin, 2003, 204, 221-231.	1.8	24
84	Widespread phages of endosymbionts: Phage WO genomics and the proposed taxonomic classification of Symbioviridae. PLoS Genetics, 2022, 18, e1010227.	3.5	22
85	J-Western Forms of Helicobacter pylori cagA Constitute a Distinct Phylogenetic Group with a Widespread Geographic Distribution. Journal of Bacteriology, 2012, 194, 1593-1604.	2.2	20
86	Microbiome reduction and endosymbiont gain from a switch in sea urchin life history. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	20
87	In Vitro Cultivation of the Hymenoptera Genetic Model, Nasonia. PLoS ONE, 2012, 7, e51269.	2.5	16
88	An optimized approach to germ-free rearing in the jewel wasp<i>Nasonia</i>. PeerJ, 2016, 4, e2316.	2.0	16
89	Distinct mucosal microbial communities in infants with surgical necrotizing enterocolitis correlate with age and antibiotic exposure. PLoS ONE, 2018, 13, e0206366.	2.5	14
90	The emergence of microbiome centres. Nature Microbiology, 2020, 5, 2-3.	13.3	13

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91	The microbiome impacts host hybridization and speciation. PLoS Biology, 2021, 19, e3001417.	5.6	13
92	Response to Comment on â€œThe hologenomic basis of speciation: Gut bacteria cause hybrid lethality in the genus <i>Nasonia</i> â€• Science, 2014, 345, 1011-1011.	12.6	12
93	Comparative Sequence Analysis of IS50/Tn5 Transposase. Journal of Bacteriology, 2004, 186, 8240-8247.	2.2	11
94	Using the <i>Wolbachia</i> Bacterial Symbiont to Teach Inquiry-Based Science: A High School Laboratory Series. American Biology Teacher, 2010, 72, 478-483.	0.2	11
95	<i>Wolbachia</i> mosquito control: Regulated. Science, 2016, 352, 526-527.	12.6	11
96	Transgenic Testing Does Not Support a Role for Additional Candidate Genes in <i>Wolbachia</i> Male Killing or Cytoplasmic Incompatibility. MSystems, 2020, 5, .	3.8	11
97	Microbiome-associated human genetic variants impact phenome-wide disease risk. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	11
98	A single synonymous nucleotide change impacts the male-killing phenotype of prophage WO gene wmk. ELife, 2021, 10, .	6.0	10
99	Genomes of Gut Bacteria from <i>Nasonia</i> Wasps Shed Light on Phylosymbiosis and Microbe-Assisted Hybrid Breakdown. MSystems, 2021, 6, .	3.8	9
100	Evolutionary Genomics: Transdomain Gene Transfers. Current Biology, 2007, 17, R935-R936.	3.9	7
101	Discover the Microbes Within! The Wolbachia Project: Citizen Science and Student-Based Discoveries for 15 Years and Counting. Genetics, 2020, 216, 263-268.	2.9	6
102	The impact of artificial selection for Wolbachia-mediated dengue virus blocking on phage WO. PLoS Neglected Tropical Diseases, 2021, 15, e0009637.	3.0	6
103	A Margulian View of Symbiosis and Speciation: the Nasonia Wasp System. Symbiosis, 2022, 87, 3-10.	2.3	4
104	Microbial Misandry: Discovery of a Spiroplasma Male-Killing Toxin. Cell Host and Microbe, 2018, 23, 689-690.	11.0	2
105	Reply to Kenyon, â€œAre Differences in the Oral Microbiome Due to Ancestry or Socioeconomics?â€• MSystems, 2020, 5, .	3.8	0
106	Title is missing!. , 2020, 16, e1008794.		0
107	Title is missing!. , 2020, 16, e1008794.		0
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109	Title is missing!. , 2020, 16, e1008794.		0