

# Angela E Douglas

## List of Publications by Citations

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96

papers

7,146

citations

43

h-index

84

g-index

101

ext. papers

9,458

ext. citations

7.1

avg, IF

7.05

L-index

#	Paper	IF	Citations
96	Animals in a bacterial world, a new imperative for the life sciences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 3229-36	11.5	1488
95	Multiorganismal insects: diversity and function of resident microorganisms. <i>Annual Review of Entomology</i> , <b>2015</b> , 60, 17-34	21.8	548
94	Towards the elements of successful insect RNAi. <i>Journal of Insect Physiology</i> , <b>2013</b> , 59, 1212-21	2.4	321
93	Low-diversity bacterial community in the gut of the fruitfly <i>Drosophila melanogaster</i> . <i>Environmental Microbiology</i> , <b>2011</b> , 13, 1889-900	5.2	294
92	The inconstant gut microbiota of <i>Drosophila</i> species revealed by 16S rRNA gene analysis. <i>ISME Journal</i> , <b>2013</b> , 7, 1922-32	11.9	205
91	Gut microbiota dictates the metabolic response of <i>Drosophila</i> to diet. <i>Journal of Experimental Biology</i> , <b>2014</b> , 217, 1894-901	3	193
90	Holes in the Hologenome: Why Host-Microbe Symbioses Are Not Holobionts. <i>MBio</i> , <b>2016</b> , 7, e02099	7.8	186
89	The Symbiotic Habit <b>2010</b> ,		185
88	The draft genome of whitefly <i>Bemisia tabaci</i> MEAM1, a global crop pest, provides novel insights into virus transmission, host adaptation, and insecticide resistance. <i>BMC Biology</i> , <b>2016</b> , 14, 110	7.3	178
87	Impact of the resident microbiota on the nutritional phenotype of <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , <b>2012</b> , 7, e36765	3.7	173
86	Interspecies interactions determine the impact of the gut microbiota on nutrient allocation in <i>Drosophila melanogaster</i> . <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 788-96	4.8	161
85	Comparative digestive physiology. <i>Comprehensive Physiology</i> , <b>2013</b> , 3, 741-83	7.7	154
84	Making a microbiome: the many determinants of host-associated microbial community composition. <i>Current Opinion in Microbiology</i> , <b>2017</b> , 35, 23-29	7.9	127
83	Metabolic Coevolution in the Bacterial Symbiosis of Whiteflies and Related Plant Sap-Feeding Insects. <i>Genome Biology and Evolution</i> , <b>2015</b> , 7, 2635-47	3.9	107
82	Large-scale label-free quantitative proteomics of the pea aphid- <i>Buchnera</i> symbiosis. <i>Molecular and Cellular Proteomics</i> , <b>2011</b> , 10, M110.007039	7.6	101
81	Microbial community assembly in wild populations of the fruit fly <i>Drosophila melanogaster</i> . <i>ISME Journal</i> , <b>2018</b> , 12, 959-972	11.9	94
80	The Host as the Driver of the Microbiota in the Gut and External Environment of <i>Drosophila melanogaster</i> . <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 6232-40	4.8	86

79	Metagenome-wide association of microbial determinants of host phenotype in <i>Drosophila melanogaster</i> . <i>MBio</i> , <b>2014</b> , 5, e01631-14	7.8	86
78	Simple animal models for microbiome research. <i>Nature Reviews Microbiology</i> , <b>2019</b> , 17, 764-775	22.2	85
77	Microbial brokers of insect-plant interactions revisited. <i>Journal of Chemical Ecology</i> , <b>2013</b> , 39, 952-61	2.7	83
76	How multi-partner endosymbioses function. <i>Nature Reviews Microbiology</i> , <b>2016</b> , 14, 731-743	22.2	82
75	Strategies for Enhanced Crop Resistance to Insect Pests. <i>Annual Review of Plant Biology</i> , <b>2018</b> , 69, 637-660	60.7	82
74	Host Genetic Control of the Microbiota Mediates the <i>Drosophila</i> Nutritional Phenotype. <i>Applied and Environmental Microbiology</i> , <b>2016</b> , 82, 671-9	4.8	81
73	Symbiosis as a general principle in eukaryotic evolution. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2014</b> , 6,	10.2	80
72	Shared metabolic pathways in a coevolved insect-bacterial symbiosis. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 6117-23	4.8	79
71	A fragile metabolic network adapted for cooperation in the symbiotic bacterium <i>Buchnera aphidicola</i> . <i>BMC Systems Biology</i> , <b>2009</b> , 3, 24	3.5	79
70	The bacterial communities in plant phloem-sap-feeding insects. <i>Molecular Ecology</i> , <b>2014</b> , 23, 1433-44	5.7	76
69	The <i>Drosophila</i> model for microbiome research. <i>Lab Animal</i> , <b>2018</b> , 47, 157-164	0.4	71
68	How the microbiome challenges our concept of self. <i>PLoS Biology</i> , <b>2018</b> , 16, e2005358	9.7	65
67	Community structure of the gut microbiota in sympatric species of wild <i>Drosophila</i> . <i>Ecology Letters</i> , <b>2017</b> , 20, 629-639	10	64
66	Host genetic determinants of microbiota-dependent nutrition revealed by genome-wide analysis of <i>Drosophila melanogaster</i> . <i>Nature Communications</i> , <b>2015</b> , 6, 6312	17.4	64
65	The molecular basis of bacterial-insect symbiosis. <i>Journal of Molecular Biology</i> , <b>2014</b> , 426, 3830-7	6.5	63
64	Molecular mechanism and functional significance of acid generation in the <i>Drosophila</i> midgut. <i>Scientific Reports</i> , <b>2016</b> , 6, 27242	4.9	62
63	Rearing the Fruit Fly <i>Drosophila melanogaster</i> Under Axenic and Gnotobiotic Conditions. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	61
62	The central role of the host cell in symbiotic nitrogen metabolism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2012</b> , 279, 2965-73	4.4	57

61	Towards an understanding of the molecular basis of effective RNAi against a global insect pest, the whitefly <i>Bemisia tabaci</i> . <i>Insect Biochemistry and Molecular Biology</i> , <b>2017</b> , 88, 21-29	4.5	56
60	Consumption of dietary sugar by gut bacteria determines <i>Drosophila</i> lipid content. <i>Biology Letters</i> , <b>2015</b> , 11, 20150469	3.6	55
59	Targeting symbiosis-related insect genes by RNAi in the pea aphid- <i>Buchnera</i> symbiosis. <i>Insect Biochemistry and Molecular Biology</i> , <b>2018</b> , 95, 55-63	4.5	53
58	In vivo function and comparative genomic analyses of the <i>Drosophila</i> gut microbiota identify candidate symbiosis factors. <i>Frontiers in Microbiology</i> , <b>2014</b> , 5, 576	5.7	51
57	The B vitamin nutrition of insects: the contributions of diet, microbiome and horizontally acquired genes. <i>Current Opinion in Insect Science</i> , <b>2017</b> , 23, 65-69	5.1	49
56	The multi-tasking gut epithelium of insects. <i>Insect Biochemistry and Molecular Biology</i> , <b>2015</b> , 67, 15-20	4.5	48
55	RNA interference against gut osmoregulatory genes in phloem-feeding insects. <i>Journal of Insect Physiology</i> , <b>2015</b> , 79, 105-12	2.4	46
54	Hype or opportunity? Using microbial symbionts in novel strategies for insect pest control. <i>Journal of Insect Physiology</i> , <b>2017</b> , 103, 10-17	2.4	45
53	Different levels of transcriptional regulation due to trophic constraints in the reduced genome of <i>Buchnera aphidicola</i> APS. <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 7760-6	4.8	43
52	Cooperative Metabolism in a Three-Partner Insect-Bacterial Symbiosis Revealed by Metabolic Modeling. <i>Journal of Bacteriology</i> , <b>2017</b> , 199,	3.5	41
51	Cellular and molecular remodelling of a host cell for vertical transmission of bacterial symbionts. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 283,	4.4	40
50	Maternal Inheritance of a Single Somatic Animal Cell Displayed by the Bacteriocyte in the Whitefly <i>Bemisia tabaci</i> . <i>Current Biology</i> , <b>2018</b> , 28, 459-465.e3	6.3	39
49	Matching the supply of bacterial nutrients to the nutritional demand of the animal host. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2014</b> , 281, 20141163	4.4	39
48	The <i>Drosophila</i> transcriptional network is structured by microbiota. <i>BMC Genomics</i> , <b>2016</b> , 17, 975	4.5	32
47	A genomic investigation of ecological differentiation between free-living and <i>Drosophila</i> -associated bacteria. <i>Molecular Ecology</i> , <b>2017</b> , 26, 4536-4550	5.7	32
46	Integrated metabonomic-proteomic analysis of an insect-bacterial symbiotic system. <i>Journal of Proteome Research</i> , <b>2010</b> , 9, 1257-67	5.6	32
45	The microbiota influences the <i>Drosophila melanogaster</i> life history strategy. <i>Molecular Ecology</i> , <b>2020</b> , 29, 639-653	5.7	31
44	The hemolymph microbiome of insects. <i>Journal of Insect Physiology</i> , <b>2019</b> , 115, 33-39	2.4	26

43	Functional variation in the gut microbiome of wild <i>Drosophila</i> populations. <i>Molecular Ecology</i> , <b>2018</b> , 27, 2834-2845	5.7	26
42	Spatiotemporally Heterogeneous Population Dynamics of Gut Bacteria Inferred from Fecal Time Series Data. <i>MBio</i> , <b>2018</b> , 9,	7.8	25
41	Molecular dissection of nutrient exchange at the insect-microbial interface. <i>Current Opinion in Insect Science</i> , <b>2014</b> , 4, 23-28	5.1	23
40	The microbial exometabolome: ecological resource and architect of microbial communities. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20190250	5.8	22
39	How gut transcriptional function of <i>Drosophila melanogaster</i> varies with the presence and composition of the gut microbiota. <i>Molecular Ecology</i> , <b>2018</b> , 27, 1848-1859	5.7	22
38	The Cost of Metabolic Interactions in Symbioses between Insects and Bacteria with Reduced Genomes. <i>MBio</i> , <b>2018</b> , 9,	7.8	22
37	Omics and the metabolic function of insect-microbial symbioses. <i>Current Opinion in Insect Science</i> , <b>2018</b> , 29, 1-6	5.1	21
36	Which experimental systems should we use for human microbiome science?. <i>PLoS Biology</i> , <b>2018</b> , 16, e2005245	5.245	19
35	Correlation and causation between the microbiome, Wolbachia and host functional traits in natural populations of drosophilid flies. <i>Molecular Ecology</i> , <b>2019</b> , 28, 1826-1841	5.7	16
34	Bacteria abundance and diversity of different life stages of <i>Plutella xylostella</i> (Lepidoptera: Plutellidae), revealed by bacteria culture-dependent and PCR-DGGE methods. <i>Insect Science</i> , <b>2015</b> , 22, 375-85	3.6	16
33	Physiological responses of insects to microbial fermentation products: Insights from the interactions between <i>Drosophila</i> and acetic acid. <i>Journal of Insect Physiology</i> , <b>2018</b> , 106, 13-19	2.4	16
32	Contradictory Results in Microbiome Science Exemplified by Recent Research. <i>MBio</i> , <b>2018</b> , 9,	7.8	16
31	The inherited bacterial symbiont influences the sex ratio of an insect host. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 286, 20191677	4.4	14
30	Nutrient factories: metabolic function of beneficial microorganisms associated with insects. <i>Environmental Microbiology</i> , <b>2018</b> , 20, 2002-2011	5.2	13
29	The role of the microbiome in host evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20190588	5.8	13
28	Host and symbiont genetic determinants of nutritional phenotype in a natural population of the pea aphid. <i>Molecular Ecology</i> , <b>2020</b> , 29, 848-858	5.7	12
27	A dietary test of putative deleterious sterols for the aphid <i>Myzus persicae</i> . <i>PLoS ONE</i> , <b>2014</b> , 9, e86256	3.7	12
26	Host determinants of among-species variation in microbiome composition in drosophilid flies. <i>ISME Journal</i> , <b>2020</b> , 14, 217-229	11.9	12

25	Match and mismatch between dietary switches and microbial partners in plant sap-feeding insects. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 286, 20190065	4.4	10
24	The molecular correlates of organ loss: the case of insect Malpighian tubules. <i>Biology Letters</i> , <b>2015</b> , 11, 20150154	3.6	10
23	Candidate genetic determinants of intraspecific variation in pea aphid susceptibility to RNA interference. <i>Insect Biochemistry and Molecular Biology</i> , <b>2020</b> , 123, 103408	4.5	10
22	The microbiota influences the <i>Drosophila melanogaster</i> life history strategy		10
21	Response of Wild Spotted Wing <i>Drosophila</i> ( <i>Drosophila suzukii</i> ) to Microbial Volatiles. <i>Journal of Chemical Ecology</i> , <b>2020</b> , 46, 688-698	2.7	10
20	Fundamentals of Microbiome Science <b>2018</b> ,		9
19	Fundamentals of Microbiome Science <b>2018</b> ,		9
18	MAGNAMWAR: an R package for genome-wide association studies of bacterial orthologs. <i>Bioinformatics</i> , <b>2018</b> , 34, 1951-1952	7.2	7
17	Patterns of host cell inheritance in the bacterial symbiosis of whiteflies. <i>Insect Science</i> , <b>2020</b> , 27, 938-946	3.6	7
16	The impact of the gut microbiome on memory and sleep in. <i>Journal of Experimental Biology</i> , <b>2021</b> , 224,	3	6
15	Housing microbial symbionts: evolutionary origins and diversification of symbiotic organs in animals. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20190603	5.8	6
14	How gut microbiome interactions affect nutritional traits of. <i>Journal of Experimental Biology</i> , <b>2020</b> , 223,	3	5
13	Syntrophic splitting of central carbon metabolism in host cells bearing functionally different symbiotic bacteria. <i>ISME Journal</i> , <b>2020</b> , 14, 1982-1993	11.9	4
12	B-vitamin nutrition in the pea aphid- <i>Buchnera</i> symbiosis. <i>Journal of Insect Physiology</i> , <b>2020</b> , 126, 104092	2.4	4
11	Non-Target Effects of dsRNA Molecules in Hemipteran Insects. <i>Genes</i> , <b>2021</b> , 12,	4.2	4
10	On the evolutionary origins of host-microbe associations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
9	Evaluation of RNA Interference for Control of the Grape Mealybug (Hemiptera: Pseudococcidae). <i>Insects</i> , <b>2020</b> , 11,	2.8	3
8	Impact of Facultative Bacteria on the Metabolic Function of an Obligate Insect-Bacterial Symbiosis. <i>MBio</i> , <b>2020</b> , 11,	7.8	3

7	Predicted Metabolic Function of the Gut Microbiota of <i>Drosophila melanogaster</i> . <i>MSystems</i> , <b>2021</b> , 6,	7.6	3
6	and its gut microbes: a model for drug-microbiome interactions. <i>Drug Discovery Today: Disease Models</i> , <b>2018</b> , 28, 43-49	1.3	3
5	Functional traits of the gut microbiome correlated with host lipid content in a natural population of. <i>Biology Letters</i> , <b>2020</b> , 16, 20190803	3.6	2
4	Good <i>Daphnia</i> parents do not control the offspring microbiome. <i>Journal of Animal Ecology</i> , <b>2018</b> , 87, 320-322	4.7	2
3	The Metabolome of Associations between Xylem-Feeding Insects and their Bacterial Symbionts. <i>Journal of Chemical Ecology</i> , <b>2020</b> , 46, 735-744	2.7	2
2	Succinate: A microbial product that modulates <i>Drosophila</i> nutritional physiology. <i>Insect Science</i> , <b>2021</b> ,	3.6	1
1	Big Role for a Tiny Genome. <i>Cell</i> , <b>2017</b> , 171, 1472-1473	56.2	