Brian P Lazzaro

List of Publications by Year
in descending order

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82	8,332	71102 41	62596 80
papers	citations	h-index	g-index

93	93	93	8978
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evolution of genes and genomes on the Drosophila phylogeny. Nature, 2007, 450, 203-218.	27.8	1,886
2	Antimicrobial peptides: Application informed by evolution. Science, 2020, 368, .	12.6	553
3	Reproductionâ€“Immunity Trade-Offs in Insects. Annual Review of Entomology, 2016, 61, 239-256.	11.8	407
4	Dynamic evolution of the innate immune system in Drosophila. Nature Genetics, 2007, 39, 1461-1468.	21.4	400
5	Immunity in a variable world. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 15-26.	4.0	315
6	The Discovery, Distribution, and Evolution of Viruses Associated with Drosophila melanogaster. PLoS Biology, 2015, 13, e1002210.	5.6	272
7	Genetic Basis of Natural Variation in D. melanogaster Antibacterial Immunity. Science, 2004, 303, 1873-1876.	12.6	230
8	The evolutionary costs of immunological maintenance and deployment. BMC Evolutionary Biology, 2008, 8, 76.	3.2	181
9	Y chromosomal fertility factors kl-2 and kl-3 of Drosophila melanogaster encode dynein heavy chain polypeptides. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 13239-13244.	7.1	159
10	Linkage Disequilibria and the Site Frequency Spectra in the su(s) and su(wa) Regions of the Drosophila melanogaster X Chromosome. Genetics, 2000, 156, 1837-1852.	2.9	137
11	Providencia sneebia sp. nov. and Providencia burhodogranariea sp. nov., isolated from wild Drosophila melanogaster. International Journal of Systematic and Evolutionary Microbiology, 2009, 59, 1108-1111.	1.7	136
12	Stochastic variation in the initial phase of bacterial infection predicts the probability of survival in D. melanogaster. ELife, 2017, 6, .	6.0	134
13	De Novo Transcriptome Sequencing in Anopheles funestus Using Illumina RNA-Seq Technology. PLoS ONE, 2010, 5, e14202.	2.5	132
14	Contrasting Patterns of Nucleotide Polymorphism at the Alcohol Dehydrogenase Locus in the Outcrossing Arabidopsis lyrata and the Selfing Arabidopsis thaliana. Molecular Biology and Evolution, 2000, 17, 645-655.	8.9	129
15	Comparative pathology of bacteria in the genus Providencia to a natural host, Drosophila melanogaster. Microbes and Infection, 2011, 13, 673-683.	1.9	127
16	Genetic Variation in Drosophila melanogaster Resistance to Infection: A Comparison Across Bacteria. Genetics, 2006, 174, 1539-1554.	2.9	120
17	Genotype and diet shape resistance and tolerance across distinct phases of bacterial infection. BMC Evolutionary Biology, 2014, 14, 56.	3.2	118
18	The effect of three environmental conditions on the fitness of cytochrome P450 monooxygenase-mediated permethrin resistance in Culex pipiens quinquefasciatus. BMC Evolutionary Biology, 2009, 9, 42.	3.2	117

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19	Natural selection on the Drosophila antimicrobial immune system. Current Opinion in Microbiology, 2008, 11, 284-289.	5.1	113
20	Comparative transcriptomics reveals CrebA as a novel regulator of infection tolerance in D. melanogaster. PLoS Pathogens, 2018, 14, e1006847.	4.7	109
21	Genotype-by-Environment Interactions and Adaptation to Local Temperature Affect Immunity and Fecundity in Drosophila melanogaster. PLoS Pathogens, 2008, 4, e1000025.	4.7	106
22	Host genetic determinants of microbiota-dependent nutrition revealed by genome-wide analysis of Drosophila melanogaster. Nature Communications, 2015, 6, 6312.	12.8	100
23	Convergent Balancing Selection on an Antimicrobial Peptide in Drosophila. Current Biology, 2016, 26, 257-262.	3.9	99
24	The Complex Contributions of Genetics and Nutrition to Immunity in Drosophila melanogaster. PLoS Genetics, 2015, 11, e1005030.	3.5	93
25	Female Drosophila melanogaster suffer reduced defense against infection due to seminal fluid components. Journal of Insect Physiology, 2012, 58, 1192-1201.	2.0	87
26	Juvenile Hormone Suppresses Resistance to Infection in Mated Female Drosophila melanogaster. Current Biology, 2017, 27, 596-601.	3.9	85
27	Molecular Population Genetics of Inducible Antibacterial Peptide Genes in Drosophila melanogaster. Molecular Biology and Evolution, 2003, 20, 914-923.	8.9	83
28	Anopheles gambiae APL1 Is a Family of Variable LRR Proteins Required for Rel1-Mediated Protection from the Malaria Parasite, Plasmodium berghei. PLoS ONE, 2008, 3, e3672.	2.5	83
29	Rapid seasonal evolution in innate immunity of wildDrosophila melanogaster. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172599.	2.6	82
30	Frequencies of the pyrethroid resistance alleles of Vssc1 and CYP6D1 in house flies from the eastern United States. Insect Molecular Biology, 2006, 15, 157-167.	2.0	78
31	Danger, Microbes, and Homeostasis. Science, 2011, 332, 43-44.	12.6	77
32	Female and male genetic contributions to post-mating immune defence in female Drosophila melanogaster. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 3649-3657.	2.6	70
33	The Toll pathway underlies host sexual dimorphism in resistance to both Gram-negative and Gram-positive bacteria in mated Drosophila. BMC Biology, 2017, 15, 124.	3.8	70
34	Evidence for Recurrent Paralogous Gene Conversion and Exceptional Allelic Divergence in the Attacin Genes of Drosophila melanogaster. Genetics, 2001, 159, 659-671.	2.9	69
35	Exceptional Diversity, Maintenance of Polymorphism, and Recent Directional Selection on the APL1 Malaria Resistance Genes of Anopheles gambiae. PLoS Biology, 2011, 9, e1000600.	5.6	68
36	Larval food quality affects adult (but not larval) immune gene expression independent of effects on general condition. Molecular Ecology, 2010, 19, 1462-1468.	3.9	67

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37	Broad geographic sampling reveals the shared basis and environmental correlates of seasonal adaptation in Drosophila. ELife, 2021, 10, .	6.0	66
38	The potential for adaptive maintenance of diversity in insect antimicrobial peptides. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150291.	4.0	60
39	Elevated Polymorphism and Divergence in the Class C Scavenger Receptors of Drosophila melanogaster and D. simulansSequence data from this article have been deposited with the EMBL/GenBank Data Libraries under accession nos. AY865019, AY865135.. Genetics, 2005, 169, 2023-2034.	2.9	58
40	Genotype and Gene Expression Associations with Immune Function in Drosophila. PLoS Genetics, 2010, 6, e1000797.	3.5	57
41	Balancing selection for aflatoxin inAspergillus flavusis maintained through interference competition with, and fungivory by insects. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20172408.	2.6	54
42	Reproductive Status Alters Transcriptomic Response to Infection in FemaleDrosophila melanogaster. G3: Genes, Genomes, Genetics, 2013, 3, 827-840.	1.8	53
43	The genetic architecture of defence as resistance to and tolerance of bacterial infection in Drosophila melanogaster. Molecular Ecology, 2017, 26, 1533-1546.	3.9	49
44	Assessing the Accuracy and Power of Population Genetic Inference from Low-Pass Next-Generation Sequencing Data. Frontiers in Genetics, 2012, 3, 66.	2.3	47
45	Sperm success and immunity. Current Topics in Developmental Biology, 2019, 135, 287-313.	2.2	47
46	Systemic Bacterial Infection and Immune Defense Phenotypes in Drosophila Melanogaster. Journal of Visualized Experiments, 2015, , e52613.	0.3	46
47	Potential for evolutionary coupling and decoupling of larval and adult immune gene expression. Molecular Ecology, 2011, 20, 1558-1567.	3.9	45
48	A Genome-Wide Association Study for Nutritional Indices in Drosophila. G3: Genes, Genomes, Genetics, 2015, 5, 417-425.	1.8	41
49	Nephrocytes Remove Microbiota-Derived Peptidoglycan from Systemic Circulation to Maintain Immune Homeostasis. Immunity, 2019, 51, 625-637.e3.	14.3	39
50	Drosophila Evolution over Space and Time (DEST): A New Population Genomics Resource. Molecular Biology and Evolution, 2021, 38, 5782-5805.	8.9	37
51	The costs of immunity and the evolution of immunological defense mechanisms. , 2011, , 299-310.		37
52	No Effect of Wolbachia on Resistance to Intracellular Infection by Pathogenic Bacteria in Drosophila melanogaster. PLoS ONE, 2012, 7, e40500.	2.5	36
53	Rapid expansion of immune-related gene families in the house fly, Musca domestica. Molecular Biology and Evolution, 2017, 34, msw285.	8.9	35
54	Thorax Injury Lowers Resistance to Infection in Drosophila melanogaster. Infection and Immunity, 2014, 82, 4380-4389.	2.2	34

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55	Consequences of chronic bacterial infection in Drosophila melanogaster. PLoS ONE, 2019, 14, e0224440.	2.5	34
56	Comparative genomics of bacteria in the genus Providencia isolated from wild Drosophila melanogaster. BMC Genomics, 2012, 13, 612.	2.8	32
57	Reticulate Speciation and Barriers to Introgression in theAnopheles gambiaeSpecies Complex. Genome Biology and Evolution, 2015, 7, 3116-3131.	2.5	32
58	Dietary plant phenolic improves survival of bacterial infection in <scp>M</scp>anduca sexta caterpillars. Entomologia Experimentalis Et Applicata, 2013, 146, 321-331.	1.4	21
59	The Demographic Histories of the M and S Molecular Forms of Anopheles gambiae s.s.. Molecular Biology and Evolution, 2010, 27, 1739-1744.	8.9	20
60	Evidence for Population-Specific Positive Selection on Immune Genes ofAnopheles gambiae. G3: Genes, Genomes, Genetics, 2012, 2, 1505-1519.	1.8	18
61	Evolution of <scp>GOUNDRY</scp>, a cryptic subgroup of AnophelesÂgambiaeÂs.l., and its impact on susceptibility to Plasmodium infection. Molecular Ecology, 2016, 25, 1494-1510.	3.9	18
62	Hostâ€“pathogen immune feedbacks can explain widely divergent outcomes from similar infections. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210786.	2.6	16
63	Haplotype Structure and Expression Divergence at the Drosophila Cellular Immune Gene eater. Molecular Biology and Evolution, 2010, 27, 2284-2299.	8.9	15
64	DNA Sequence Polymorphism and Divergence at the erect wing and suppressor of sable Loci of Drosophila melanogaster and D. simulans. Genetics, 2005, 170, 1153-1165.	2.9	14
65	Persistence of an extracellular systemic infection across metamorphosis in a holometabolous insect. Biology Letters, 2018, 14, 20170771.	2.3	14
66	Disease Pathology: Wasting Energy Fighting Infection. Current Biology, 2006, 16, R964-R965.	3.9	13
67	Inherent constraints on a polyfunctional tissue lead to a reproduction-immunity tradeoff. BMC Biology, 2022, 20, .	3.8	13
68	Balancing sensitivity, risk, and immunopathology in immune regulation. Current Opinion in Insect Science, 2022, 50, 100874.	4.4	11
69	Population Genetics ofAnopheles coluzziiImmune Pathways and Genes. G3: Genes, Genomes, Genetics, 2015, 5, 329-339.	1.8	10
70	The molecular architecture of Drosophila melanogaster defense against Beauveria bassiana explored through evolve and resequence and quantitative trait locus mapping. G3: Genes, Genomes, Genetics, 2021, 11, .	1.8	10
71	fRFLP and fAFLP: Medium-Throughput Genotyping by Fluorescently Post-Labeling Restriction Digestion. BioTechniques, 2002, 33, 539-546.	1.8	8
72	Adenosine Signaling and the Energetic Costs of Induced Immunity. PLoS Biology, 2015, 13, e1002136.	5.6	7

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73	A single mating is sufficient to induce persistent reduction of immune defense in mated female Drosophila melanogaster. Journal of Insect Physiology, 2022, 140, 104414.	2.0	7
74	The Genetics of Immunity. Genetics, 2014, 197, 467-470.	2.9	5
75	A robust method to isolate Drosophila fat body nuclei for transcriptomic analysis. Fly, 2022, 16, 62-67.	1.7	5
76	The Genetics of Immunity. G3: Genes, Genomes, Genetics, 2014, 4, 943-945.	1.8	4
77	Hostâ€“Microbe Interactions: Winning the Colonization Lottery. Current Biology, 2017, 27, R642-R644.	3.9	4
78	Characterization of Insect Immune Systems from Genomic Data. Springer Protocols, 2020, , 3-34.	0.3	4
79	No evidence for positive selection at two potential targets for malaria transmission-blocking vaccines in Anopheles gambiae s.s. Infection, Genetics and Evolution, 2013, 16, 87-92.	2.3	3
80	Population genetic analysis of autophagy and phagocytosis genes in Drosophila melanogaster and D. simulans. PLoS ONE, 2018, 13, e0205024.	2.5	3
81	Detecting Adaptation with Genome-Scale Molecular Evolutionary Analysis: An Educational Primer for Use with â€œRNA Interference Pathways Display High Rates of Adaptive Protein Evolution in Multiple Invertebratesâ€. Genetics, 2018, 210, 773-780.	2.9	0
82	fRFLP and fAFLP: Medium-Throughput Genotyping by Fluorescently Post-Labeling Restriction Digestion. BioTechniques, 2002, 33, 539-546.	1.8	0