

Luciano M Matzkin

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

4,450
citations

201674

27
h-index

254184

43
g-index

51
all docs

51
docs citations

51
times ranked

5045
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of genes and genomes on the <i>Drosophila</i> phylogeny. <i>Nature</i> , 2007, 450, 203-218.	27.8	1,886
2	Evolution of water conservation mechanisms in <i>Drosophila</i> . <i>Journal of Experimental Biology</i> , 2003, 206, 1183-1192.	1.7	227
3	GEOGRAPHIC VARIATION IN DIAPAUSE INCIDENCE, LIFE-HISTORY TRAITS, AND CLIMATIC ADAPTATION IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 1721-1732.	2.3	220
4	Polytene Chromosomal Maps of 11 <i>Drosophila</i> Species: The Order of Genomic Scaffolds Inferred From Genetic and Physical Maps. <i>Genetics</i> , 2008, 179, 1601-1655.	2.9	191
5	Evolution of water balance in the genus <i>Drosophila</i> . <i>Journal of Experimental Biology</i> , 2001, 204, 2331-2338.	1.7	178
6	Single-Locus Latitudinal Clines and Their Relationship to Temperate Adaptation in Metabolic Genes and Derived Alleles in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2004, 168, 923-931.	2.9	132
7	Egg size, embryonic development time and ovoviviparity in <i>Drosophila</i> species. <i>Journal of Evolutionary Biology</i> , 2009, 22, 430-434.	1.7	125
8	Adaptive Evolution of Metabolic Pathways in <i>Drosophila</i> . <i>Molecular Biology and Evolution</i> , 2007, 24, 1347-1354.	8.9	106
9	Functional genomics of cactus host shifts in <i>Drosophila mojavensis</i> . <i>Molecular Ecology</i> , 2006, 15, 4635-4643.	3.9	105
10	Mutations in the <i>neverland</i> Gene Turned <i>Drosophila pachea</i> into an Obligate Specialist Species. <i>Science</i> , 2012, 337, 1658-1661.	12.6	83
11	The Structure and Population Genetics of the Breakpoints Associated With the Cosmopolitan Chromosomal Inversion In(3R)Payne in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2005, 170, 1143-1152.	2.9	77
12	Evolution of stress resistance in <i>Drosophila</i> : interspecific variation in tolerance to desiccation and starvation. <i>Functional Ecology</i> , 2009, 23, 521-527.	3.6	76
13	Preadult Parental Diet Affects Offspring Development and Metabolism in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2013, 8, e59530.	2.5	69
14	The Molecular Basis of Host Adaptation in Cactophilic <i>Drosophila</i> : Molecular Evolution of a Glutathione <i>S</i> -Transferase Gene (<i>GstD1</i>) in <i>Drosophila mojavensis</i> . <i>Genetics</i> , 2008, 178, 1073-1083.	2.9	67
15	Dietary Protein and Sugar Differentially Affect Development and Metabolic Pools in Ecologically Diverse <i>Drosophila</i> . <i>Journal of Nutrition</i> , 2011, 141, 1127-1133.	2.9	66
16	Population transcriptomics of cactus host shifts in <i>Drosophila mojavensis</i> . <i>Molecular Ecology</i> , 2012, 21, 2428-2439.	3.9	65
17	Postmating transcriptional changes in reproductive tracts of con- and heterospecifically mated <i>Drosophila mojavensis</i> females. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7878-7883.	7.1	61
18	Transcriptional variation associated with cactus host plant adaptation in <i>Drosophila mettleri</i> populations. <i>Molecular Ecology</i> , 2015, 24, 5186-5199.	3.9	59

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19	GEOGRAPHIC VARIATION IN DIAPAUSE INCIDENCE, LIFE-HISTORY TRAITS, AND CLIMATIC ADAPTATION IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 1721.	2.3	54
20	Multilocus nuclear sequences reveal intra- and interspecific relationships among chromosomally polymorphic species of cactophilic <i>Drosophila</i> . <i>Molecular Ecology</i> , 2007, 16, 3009-3024.	3.9	53
21	Desiccation Resistance in Four <i>Drosophila</i> Species: Sex and Population Effects. <i>Fly</i> , 2007, 1, 268-273.	1.7	52
22	Connecting genotypes, phenotypes and fitness: harnessing the power of CRISPR/Cas9 genome editing. <i>Molecular Ecology</i> , 2015, 24, 3810-3822.	3.9	49
23	Sequence Variation of Alcohol Dehydrogenase (<i>Adh</i>) Paralogs in Cactophilic <i>Drosophila</i> . <i>Genetics</i> , 2003, 163, 181-194.	2.9	44
24	Mate discrimination among subspecies through a conserved olfactory pathway. <i>Science Advances</i> , 2020, 6, eaba5279.	10.3	41
25	Ecological Genomics of Host Shifts in <i>Drosophila mojavensis</i> . <i>Advances in Experimental Medicine and Biology</i> , 2014, 781, 233-247.	1.6	39
26	Population Genetics and Geographic Variation of Alcohol Dehydrogenase (<i>Adh</i>) Paralogs and Glucose-6-Phosphate Dehydrogenase (<i>G6pd</i>) in <i>Drosophila mojavensis</i> . <i>Molecular Biology and Evolution</i> , 2003, 21, 276-285.	8.9	38
27	Transcriptional Regulation of Metabolism Associated With the Increased Desiccation Resistance of the Cactophilic <i>Drosophila mojavensis</i> . <i>Genetics</i> , 2009, 182, 1279-1288.	2.9	38
28	Molecular evolution and population genetics of two <i>Drosophila mettleri</i> cytochrome P450 genes involved in host plant utilization. <i>Molecular Ecology</i> , 2008, 17, 3211-3221.	3.9	33
29	The 19 Genomes of <i>Drosophila</i> : A BAC Library Resource for Genus-Wide and Genome-Scale Comparative Evolutionary Research. <i>Genetics</i> , 2011, 187, 1023-1030.	2.9	22
30	Activity variation in alcohol dehydrogenase paralogs is associated with adaptation to cactus host use in cactophilic <i>Drosophila</i> . <i>Molecular Ecology</i> , 2005, 14, 2223-2231.	3.9	19
31	Molecular evolution of candidate genes involved in postmating prezygotic reproductive isolation. <i>Journal of Evolutionary Biology</i> , 2015, 28, 403-414.	1.7	19
32	Genetic diversification and demographic history of the cactophilic pseudoscorpion <i>Dinocheirus arizonensis</i> from the Sonoran Desert. <i>Molecular Phylogenetics and Evolution</i> , 2009, 52, 133-141.	2.7	18
33	Behavioral evolution accompanying host shifts in cactophilic <i>Drosophila</i> larvae. <i>Ecology and Evolution</i> , 2018, 8, 6921-6931.	1.9	18
34	Genomic analysis of the four ecologically distinct cactus host populations of <i>Drosophila mojavensis</i> . <i>BMC Genomics</i> , 2019, 20, 732.	2.8	17
35	Metabolic pools differ among ecologically diverse <i>Drosophila</i> species. <i>Journal of Insect Physiology</i> , 2009, 55, 1145-1150.	2.0	15
36	Chromosome-level hybrid de novo genome assemblies as an attainable option for nonmodel insects. <i>Molecular Ecology Resources</i> , 2020, 20, 1277-1293.	4.8	15

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37	Environmental predictability drives adaptive within- and transgenerational plasticity of heat tolerance across life stages and climatic regions. <i>Functional Ecology</i> , 2021, 35, 153-166.	3.6	14
38	Novel genetic basis of resistance to Bt toxin Cry1Ac in <i>Helicoverpa zea</i> . <i>Genetics</i> , 2022, 221, .	2.9	14
39	Contributions of cis- and trans-Regulatory Evolution to Transcriptomic Divergence across Populations in the <i>Drosophila mojavensis</i> Larval Brain. <i>Genome Biology and Evolution</i> , 2020, 12, 1407-1418.	2.5	10
40	Assessing the Architecture of <i>Drosophila mojavensis</i> Locomotor Evolution with Bulk Segregant Analysis. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 1767-1775.	1.8	8
41	Gene expression and alternative splicing dynamics are perturbed in female head transcriptomes following heterospecific copulation. <i>BMC Genomics</i> , 2021, 22, 359.	2.8	6
42	Electrophoretic Analysis of Methuselah Flies from Multiple Species. , 2004, , 237-248.		5
43	Positive selection at sites of chemosensory genes is associated with the recent divergence and local ecological adaptation in cactophilic <i>Drosophila</i> . <i>BMC Evolutionary Biology</i> , 2018, 18, 144.	3.2	5
44	Evolution of stress resistance in <i>Drosophila</i> : interspecific variation in tolerance to desiccation and starvation. <i>Functional Ecology</i> , 2009, 23, 551.	3.6	1