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Physiological mechanisms of evolved desiccation resistance in *Drosophila melanogaster*.

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323	Dehydration in dormant insects. <i>Journal of Insect Physiology</i> , <b>2000</b> , 46, 837-852	2.4	227
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180	The antifungal activity of fatty acids of all stages of <i>Sarcophaga carnaria</i> L. (Diptera: Sarcophagidae). <b>2014</b> , 169, 279-86		39
179	Divergence of water balance mechanisms and acclimation potential in body color morphs of <i>Drosophila ananassae</i> . <b>2014</b> , 321, 13-27		4
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176	Sex-specific divergence for body size and desiccation-related traits in <i>Drosophila hydei</i> from the western Himalayas. <b>2014</b> , 177, 1-10		6
175	Identification of morphological and chemical markers of dry- and wet-season conditions in female <i>Anopheles gambiae</i> mosquitoes. <b>2014</b> , 7, 294		12
174	Replicated evolutionary divergence in the cuticular hydrocarbon profile of male crickets associated with the loss of song in the Hawaiian archipelago. <b>2014</b> , 27, 2249-57		18
173	Cuticular differences associated with aridity acclimation in African malaria vectors carrying alternative arrangements of inversion 2La. <b>2014</b> , 7, 176		20

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149	Regionalization of surface lipids in insects. <b>2016</b> , 283,		30
148	Cytochrome P450 gene, CYP4G51, modulates hydrocarbon production in the pea aphid, <i>Acyrtosiphon pisum</i> . <b>2016</b> , 76, 84-94		64
147	Desiccation resistance in tropical insects: causes and mechanisms underlying variability in a Panama ant community. <b>2016</b> , 6, 6282-91		60
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141	Survival, physical and physiological changes of <i>Taenia hydatigena</i> eggs under different conditions of water stress. <b>2017</b> , 177, 47-56		6
140	Starvation but not locomotion enhances heart robustness in <i>Drosophila</i> . <i>Journal of Insect Physiology</i> , <b>2017</b> , 99, 8-14	2.4	4
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137	Adaptation to fluctuating environments in a selection experiment with. <b>2017</b> , 7, 3796-3807		12

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133	From Nature to the Lab: Establishing <i>Drosophila</i> Resources for Evolutionary Genetics. <b>2017</b> , 5,		5
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125	Heat- and humidity-induced plastic changes in body lipids and starvation resistance in the tropical fly during wet and dry seasons. <i>Journal of Experimental Biology</i> , <b>2018</b> , 221,	3	5
124	Plasticity for desiccation tolerance across species is affected by phylogeny and climate in complex ways. <b>2018</b> , 285,		33
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120	Plasticity and cross-tolerance to heterogeneous environments: divergent stress responses co-evolved in an African fruit fly. <b>2018</b> , 31, 98-110		26
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113	The genetic basis of female pheromone differences between <i>Drosophila melanogaster</i> and <i>D. simulans</i> . <b>2019</b> , 122, 93-109		11
112	Adult <i>Paederus fuscipes</i> (Coleoptera: Staphylinidae) Beetles Overcome Water Loss With Increased Total Body Water Content, Energy Metabolite Storage, and Reduced Cuticular Permeability: Age, Sex-Specific, and Mating Status Effects on Desiccation. <b>2019</b> , 48, 911-922		3
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110	Genomics of Early Cardiac Dysfunction and Mortality in Obese. <b>2019</b> , 92, 591-611		1
109	Biological Adaptations Associated with Dehydration in Mosquitoes. <i>Insects</i> , <b>2019</b> , 10,	2.8	10
108	BgFas1: A fatty acid synthase gene required for both hydrocarbon and cuticular fatty acid biosynthesis in the German cockroach, <i>Blattella germanica</i> (L.). <b>2019</b> , 112, 103203		16
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106	Pleiotropic Effects of and on Pigmentation and Cuticular Hydrocarbon Composition in. <b>2019</b> , 10, 518		19
105	Changes in lipid classes of <i>Drosophila melanogaster</i> in response to selection for three stress traits. <i>Journal of Insect Physiology</i> , <b>2019</b> , 117, 103890	2.4	2
104	Gut yeasts do not improve desiccation survival in <i>Drosophila melanogaster</i> . <i>Journal of Insect Physiology</i> , <b>2019</b> , 117, 103893	2.4	
103	Natural and sexual selection on cuticular hydrocarbons: a quantitative genetic analysis. <b>2019</b> , 286, 20190677		9
102	Disentangling factors limiting diamondback moth, <i>Plutella xylostella</i> (L.), spatio-temporal population abundance: A tool for pest forecasting. <b>2019</b> , 143, 670-682		3
101	Not so free range? Oviposition microhabitat and egg clustering affects (Diptera: Chironomidae) reproductive success. <b>2019</b> , 42, 271-284		9

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97	The physiology of forager hydration and variation among harvester ant ( <i>Pogonomyrmex barbatus</i> ) colonies in collective foraging behavior. <b>2019</b> , 9, 5126		12
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95	Differential sensitivity of bees to urbanization-driven changes in body temperature and water content. <b>2019</b> , 9, 1643		25
94	Communication versus waterproofing: the physics of insect cuticular hydrocarbons. <i>Journal of Experimental Biology</i> , <b>2019</b> , 222,	3	14
93	Conflictual influence of humidity during shelter selection of the American cockroach ( <i>Periplaneta americana</i> ). <b>2019</b> , 9, 20331		4
92	Proximate mechanisms of drought resistance in <i>Phytoseiulus persimilis</i> eggs. <b>2019</b> , 79, 279-298		15
91	Phenotypic variation in egg survival in the predatory mite <i>Phytoseiulus persimilis</i> under dry conditions. <b>2019</b> , 130, 88-94		8
90	Termite environmental tolerances are more linked to desiccation than temperature in modified tropical forests. <b>2019</b> , 66, 57-64		23
89	Diapause affects cuticular hydrocarbon composition and mating behavior of both sexes in <i>Drosophila montana</i> . <b>2020</b> , 27, 304-316		17
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87	Dietary nutrient balance shapes phenotypic traits of <i>Drosophila melanogaster</i> in interaction with gut microbiota. <b>2020</b> , 241, 110626		13
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80	Divergence of Desiccation-Related Traits in from Northwestern China. <i>Insects</i> , <b>2020</b> , 11,	2.8	1
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78	New approach to application of mid-infrared photoacoustic spectroscopy in forensic analysis: Study with the necrophagous blow fly <i>Chrysomya megacephala</i> (Diptera: Calliphoridae). <b>2020</b> , 209, 111934		1
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76	Experimental evidence for accelerated adaptation to desiccation through sexual selection on males. <b>2020</b> , 33, 1060		2
75	Hydrocarbon pheromone production in insects. <b>2021</b> , 205-235		1
74	Little parallelism in genomic signatures of local adaptation in two sympatric, cryptic sister species. <b>2021</b> , 34, 937-952		1
73	Response to laboratory selection for darker and lighter body color phenotypes in <i>Drosophila melanogaster</i> : correlated changes for larval behavioral traits. <b>2021</b> , 33, 419-443		
72	Post-eclosion temperature effects on insect cuticular hydrocarbon profiles. <b>2021</b> , 11, 352-364		1
71	Lipophorin transport of hydrocarbon during early vitellogenesis in the silkworm, <i>Bombyx mori</i> . <b>2021</b> , 24, 191-191		
70	Transgenic expression of late embryogenesis abundant proteins improves tolerance to water stress in. <i>Journal of Experimental Biology</i> , <b>2021</b> , 224,	3	3
69	Low levels of genetic differentiation with isolation by geography and environment in populations of <i>Drosophila melanogaster</i> from across China. <b>2021</b> , 126, 942-954		0
68	Eco-genetics of desiccation resistance in <i>Drosophila</i> . <b>2021</b> , 96, 1421-1440		5
67	Desiccation and temperature resistance of the larger grain borer, <i>Prostephanus truncatus</i> (Horn) (Coleoptera: Bostrichidae): pedestals for invasion success?. <b>2021</b> , 46, 157-166		3
66	Desiccation stress acts as cause as well as cost of dispersal in <i>Drosophila melanogaster</i> .		
65	When it's hot and dry: life-history strategy influences the effects of heat waves and water limitation. <i>Journal of Experimental Biology</i> , <b>2021</b> , 224,	3	3



64	Effect of body lipid content is linked to nutritional adaptation in the acclimation responses of mesic-adapted <i>Paederus</i> to seasonal variations in desiccation stress. <i>Journal of Insect Physiology</i> , <b>2021</b> , 131, 104226	2.4	1
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62	No water, no mating: Connecting dots from behaviour to pathways. <b>2021</b> , 16, e0252920		0
61	Developmental and adult acclimation impact cold and drought survival of invasive tropical <i>Drosophila kikkawai</i> . <b>2021</b> , 10,		1
60	Water Balance and Desiccation Tolerance of the Invasive South American Tomato Pinworm. <b>2021</b> , 114, 1743-1751		2
59	Evolution of sex-specific heat stress tolerance and larval Hsp70 expression in populations of <i>Drosophila melanogaster</i> adapted to larval crowding. <b>2021</b> , 34, 1376-1385		1
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47	Evolutionary consequences of altered atmospheric oxygen in <i>Drosophila melanogaster</i> . <b>2011</b> , 6, e26876		11

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45	An Experimental Evolution Test of the Relationship between Melanism and Desiccation Survival in Insects. <b>2016</b> , 11, e0163414	12
44	Solid-phase microextraction-based cuticular hydrocarbon profiling for intraspecific delimitation in <i>Acyrtosiphon pisum</i> . <b>2017</b> , 12, e0184243	7
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42	Cuticle hydrocarbons in saline aquatic beetles. <b>2017</b> , 5, e3562	7
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38	Spatiotemporal patterns of desiccation tolerance in natural populations of <i>Drosophila melanogaster</i> .	0
37	Darker eggs resist more to desiccation: the case of melanin in <i>Aedes</i> , <i>Anopheles</i> and <i>Culex</i> mosquito vectors.	
36	Dehydration bouts prompt increased activity and blood feeding by mosquitoes.	
35	Isolated individuals and groups show opposite preferences toward humidity.	
34	Pleiotropic effects of ebony and tan on pigmentation and cuticular hydrocarbon composition in <i>Drosophila melanogaster</i> .	0
33	Chemically Insignificant Social Parasites Exhibit More Anti-Dehydration Behaviors than Their Hosts. <i>Insects</i> , <b>2021</b> , 12,	2.8
32	Methoprene treatment increases activity, starvation and desiccation risk of Queensland fruit fly. <i>Journal of Insect Physiology</i> , <b>2021</b> , 136, 104340	2.4
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22	Why do ants differ in acclimatory ability? Biophysical mechanisms behind cuticular hydrocarbon acclimation across species. <i>Journal of Experimental Biology</i> ,	3	0
21	Building bridges from genome to physiology using machine learning and <i>Drosophila</i> experimental evolution.		
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18	Near infrared spectroscopy (NIRS) coupled with chemometric methods to identify and estimate taxonomic relationships of flies with forensic potential (Diptera: Calliphoridae and Sarcophagidae). <b>2022</b> , 235, 106672		1
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16	Life-stage-related desiccation and starvation resistance in the biological control agent <i>Neolema abbreviata</i> .		0
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12	Indigenous and introduced Collembola differ in desiccation resistance but not its plasticity in response to temperature. <b>2023</b> , 3, 100051		0
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- 9 A Hepatocyte Nuclear Factor BtabHNF4 Mediates Desiccation Tolerance and Fecundity in Whitefly (*Bemisia tabaci*).
- 8 Phenotypic plasticity in desiccation physiology of closely related, range restricted and broadly distributed fruit fly species.
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