

Ary Anthony Hoffmann

List of Publications by Year in descending order

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807
papers

55,271
citations

1992

101
h-index

2747

192
g-index

866
all docs

866
docs citations

866
times ranked

32685
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate change and evolutionary adaptation. <i>Nature</i> , 2011, 470, 479-485.	27.8	2,489
2	Successful establishment of <i>Wolbachia</i> in <i>Aedes</i> populations to suppress dengue transmission. <i>Nature</i> , 2011, 476, 454-457.	27.8	1,261
3	The wMel <i>Wolbachia</i> strain blocks dengue and invades caged <i>Aedes aegypti</i> populations. <i>Nature</i> , 2011, 476, 450-453.	27.8	1,092
4	Adaptation of <i>Drosophila</i> to temperature extremes: bringing together quantitative and molecular approaches. <i>Journal of Thermal Biology</i> , 2003, 28, 175-216.	2.5	896
5	The broad footprint of climate change from genes to biomes to people. <i>Science</i> , 2016, 354, .	12.6	883
6	Towards an Integrated Framework for Assessing the Vulnerability of Species to Climate Change. <i>PLoS Biology</i> , 2008, 6, e325.	5.6	880
7	Assessing species vulnerability to climate change. <i>Nature Climate Change</i> , 2015, 5, 215-224.	18.8	856
8	Limits to the Adaptive Potential of Small Populations. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2006, 37, 433-458.	8.3	705
9	Assessing the benefits and risks of translocations in changing environments: a genetic perspective. <i>Evolutionary Applications</i> , 2011, 4, 709-725.	3.1	661
10	Heritable variation and evolution under favourable and unfavourable conditions. <i>Trends in Ecology and Evolution</i> , 1999, 14, 96-101.	8.7	643
11	Building evolutionary resilience for conserving biodiversity under climate change. <i>Evolutionary Applications</i> , 2011, 4, 326-337.	3.1	617
12	Rapid spread of an inherited incompatibility factor in California <i>Drosophila</i> . <i>Nature</i> , 1991, 353, 440-442.	27.8	609
13	GENETIC ISOLATION BY ENVIRONMENT OR DISTANCE: WHICH PATTERN OF GENE FLOW IS MOST COMMON?. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 1-15.	2.3	598
14	Revisiting the Impact of Inversions in Evolution: From Population Genetic Markers to Drivers of Adaptive Shifts and Speciation?. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2008, 39, 21-42.	8.3	553
15	A REASSESSMENT OF GENETIC LIMITS TO EVOLUTIONARY CHANGE. <i>Ecology</i> , 2005, 86, 1371-1384.	3.2	532
16	Upper thermal limits in terrestrial ectotherms: how constrained are they?. <i>Functional Ecology</i> , 2013, 27, 934-949.	3.6	519
17	Species borders: ecological and evolutionary perspectives. <i>Trends in Ecology and Evolution</i> , 1994, 9, 223-227.	8.7	468
18	Upper thermal limits of <i>Drosophila</i> are linked to species distributions and strongly constrained phylogenetically. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16228-16233.	7.1	454

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19	Geographical limits to species-range shifts are suggested by climate velocity. <i>Nature</i> , 2014, 507, 492-495.	27.8	436
20	Detecting genetic responses to environmental change. <i>Nature Reviews Genetics</i> , 2008, 9, 421-432.	16.3	434
21	Incompatible and sterile insect techniques combined eliminate mosquitoes. <i>Nature</i> , 2019, 572, 56-61.	27.8	430
22	Adapting to climate change: a perspective from evolutionary physiology. <i>Climate Research</i> , 2010, 43, 3-15.	1.1	414
23	Opposing clines for high and low temperature resistance in <i>Drosophila melanogaster</i> . <i>Ecology Letters</i> , 2002, 5, 614-618.	6.4	413
24	Fundamental Evolutionary Limits in Ecological Traits Drive <i>Drosophila</i> Species Distributions. <i>Science</i> , 2009, 325, 1244-1246.	12.6	381
25	From Parasite to Mutualist: Rapid Evolution of <i>Wolbachia</i> in Natural Populations of <i>Drosophila</i> . <i>PLoS Biology</i> , 2007, 5, e114.	5.6	375
26	Integrating biophysical models and evolutionary theory to predict climatic impacts on species' ranges: the dengue mosquito <i>Aedes aegypti</i> in Australia. <i>Functional Ecology</i> , 2009, 23, 528-538.	3.6	365
27	Genetics of Climate Change Adaptation. <i>Annual Review of Genetics</i> , 2012, 46, 185-208.	7.6	365
28	What Can Plasticity Contribute to Insect Responses to Climate Change?. <i>Annual Review of Entomology</i> , 2016, 61, 433-451.	11.8	362
29	A Rapid Shift in a Classic Clinal Pattern in <i>Drosophila</i> Reflecting Climate Change. <i>Science</i> , 2005, 308, 691-693.	12.6	352
30	Ecologically relevant measures of tolerance to potentially lethal temperatures. <i>Journal of Experimental Biology</i> , 2011, 214, 3713-3725.	1.7	352
31	Genetic correlations, tradeoffs and environmental variation. <i>Heredity</i> , 2004, 93, 241-248.	2.6	350
32	UNIDIRECTIONAL INCOMPATIBILITY BETWEEN POPULATIONS OF <i>DROSOPHILA SIMULANS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1986, 40, 692-701.	2.3	341
33	Predicting the effects of climate change on natural enemies of agricultural pests. <i>Biological Control</i> , 2010, 52, 296-306.	3.0	332
34	Value of long-term ecological studies. <i>Austral Ecology</i> , 2012, 37, 745-757.	1.5	326
35	Physiological climatic limits in <i>Drosophila</i> : patterns and implications. <i>Journal of Experimental Biology</i> , 2010, 213, 870-880.	1.7	310
36	Low Potential for Climatic Stress Adaptation in a Rainforest <i>Drosophila</i> Species. <i>Science</i> , 2003, 301, 100-102.	12.6	308

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37	Male size and mating success in <i>Drosophila melanogaster</i> and <i>D. pseudoobscura</i> under field conditions. <i>Animal Behaviour</i> , 1987, 35, 468-476.	1.9	294
38	Environmental Stress as an Evolutionary Force. <i>BioScience</i> , 2000, 50, 217.	4.9	292
39	Evolution of phenotypic plasticity in extreme environments. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160138.	4.0	267
40	PHYLOGENETIC CONSTRAINTS IN KEY FUNCTIONAL TRAITS BEHIND SPECIES' CLIMATE NICHES: PATTERNS OF DESICCATION AND COLD RESISTANCE ACROSS 95 <i>DROSOPHILA</i> SPECIES. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 3377-3389.	2.3	261
41	Stability of the wMel Wolbachia Infection following Invasion into <i>Aedes aegypti</i> Populations. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e3115.	3.0	261
42	Establishment of Wolbachia Strain wAlbB in Malaysian Populations of <i>Aedes aegypti</i> for Dengue Control. <i>Current Biology</i> , 2019, 29, 4241-4248.e5.	3.9	257
43	Climate change vulnerability assessment of species. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2019, 10, e551.	8.1	255
44	Desiccation and starvation resistance in <i>Drosophila</i> : patterns of variation at the species, population and intrapopulation levels. <i>Heredity</i> , 1999, 83, 637-643.	2.6	252
45	Climatic selection on genes and traits after a 100-year-old invasion: a critical look at the temperate-tropical clines in <i>Drosophila melanogaster</i> from eastern Australia. <i>Genetica</i> , 2007, 129, 133-147.	1.1	246
46	Temporal expression of heat shock genes during cold stress and recovery from chill coma in adult <i>Drosophila melanogaster</i> . <i>FEBS Journal</i> , 2010, 277, 174-185.	4.7	246
47	Laboratory selection experiments using <i>Drosophila</i> : what do they really tell us?. <i>Trends in Ecology and Evolution</i> , 2000, 15, 32-36.	8.7	233
48	LOCAL ADAPTATION AND COGRADIENT SELECTION IN THE ALPINE PLANT, <i>POA HIEMATA</i> , ALONG A NARROW ALTITUDINAL GRADIENT. <i>Evolution; International Journal of Organic Evolution</i> , 2007, 61, 2925-2941.	2.3	224
49	Population Dynamics of the Wolbachia Infection Causing Cytoplasmic Incompatibility in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1998, 148, 221-231.	2.9	223
50	Thermal Tolerance in Widespread and Tropical <i>Drosophila</i> Species: Does Phenotypic Plasticity Increase with Latitude?. <i>American Naturalist</i> , 2011, 178, S80-S96.	2.1	219
51	Naturally-occurring Wolbachia infection in <i>Drosophila simulans</i> that does not cause cytoplasmic incompatibility. <i>Heredity</i> , 1996, 76, 1-8.	2.6	218
52	Chromosomal inversion polymorphisms and adaptation. <i>Trends in Ecology and Evolution</i> , 2004, 19, 482-488.	8.7	217
53	Costs and benefits of cold acclimation in field-released <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 216-221.	7.1	212
54	Biological invasions, climate change and genomics. <i>Evolutionary Applications</i> , 2015, 8, 23-46.	3.1	209

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55	An integrated approach to environmental stress tolerance and life-history variation: desiccation tolerance in <i>Drosophila</i> . <i>Biological Journal of the Linnean Society</i> , 1989, 37, 117-136.	1.6	206
56	Relative importance of plastic vs genetic factors in adaptive differentiation: geographical variation for stress resistance in <i>Drosophila melanogaster</i> from eastern Australia. <i>Functional Ecology</i> , 2005, 19, 222-227.	3.6	206
57	Male age, host effects and the weak expression or non-expression of cytoplasmic incompatibility in <i>Drosophila</i> strains infected by maternally transmitted <i>Wolbachia</i> . <i>Genetical Research</i> , 2002, 80, 79-87.	0.9	203
58	Local introduction and heterogeneous spatial spread of dengue-suppressing <i>Wolbachia</i> through an urban population of <i>Aedes aegypti</i> . <i>PLoS Biology</i> , 2017, 15, e2001894.	5.6	202
59	Incorporating evolutionary adaptation in species distribution modelling reduces projected vulnerability to climate change. <i>Ecology Letters</i> , 2016, 19, 1468-1478.	6.4	200
60	<i>Wolbachia</i> Infections in <i>Aedes aegypti</i> Differ Markedly in Their Response to Cyclical Heat Stress. <i>PLoS Pathogens</i> , 2017, 13, e1006006.	4.7	198
61	A comprehensive assessment of geographic variation in heat tolerance and hardening capacity in populations of <i>Drosophila melanogaster</i> from eastern Australia. <i>Journal of Evolutionary Biology</i> , 2010, 23, 2484-2493.	1.7	193
62	The Impact of Climate Change on Fertility. <i>Trends in Ecology and Evolution</i> , 2019, 34, 249-259.	8.7	188
63	Revisiting Adaptive Potential, Population Size, and Conservation. <i>Trends in Ecology and Evolution</i> , 2017, 32, 506-517.	8.7	182
64	Sensitivity to thermal extremes in Australian <i>Drosophila</i> implies similar impacts of climate change on the distribution of widespread and tropical species. <i>Global Change Biology</i> , 2014, 20, 1738-1750.	9.5	181
65	The <i>Wolbachia</i> strain wAu provides highly efficient virus transmission blocking in <i>Aedes aegypti</i> . <i>PLoS Pathogens</i> , 2018, 14, e1006815.	4.7	181
66	A framework for incorporating evolutionary genomics into biodiversity conservation and management. <i>Climate Change Responses</i> , 2015, 2, .	2.6	175
67	Field evaluation of the establishment potential of wMelpop <i>Wolbachia</i> in Australia and Vietnam for dengue control. <i>Parasites and Vectors</i> , 2015, 8, 563.	2.5	173
68	Environmental monitoring using next generation sequencing: rapid identification of macroinvertebrate bioindicator species. <i>Frontiers in Zoology</i> , 2013, 10, 45.	2.0	171
69	LEVELS OF VARIATION IN STRESS RESISTANCE IN <i>DROSOPHILA</i> AMONG STRAINS, LOCAL POPULATIONS, AND GEOGRAPHIC REGIONS: PATTERNS FOR DESICCATION, STARVATION, COLD RESISTANCE, AND ASSOCIATED TRAITS. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 1621-1630.	2.3	169
70	Rapid Sequential Spread of Two <i>Wolbachia</i> Variants in <i>Drosophila simulans</i> . <i>PLoS Pathogens</i> , 2013, 9, e1003607.	4.7	169
71	<i>Wolbachia</i> strains for disease control: ecological and evolutionary considerations. <i>Evolutionary Applications</i> , 2015, 8, 751-768.	3.1	168
72	Dynamics of the <i>Wolbachia</i> Infection in Outbred <i>Aedes aegypti</i> Informs Prospects for Mosquito Vector Control. <i>Genetics</i> , 2011, 187, 583-595.	2.9	162

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73	Maternal and grandmaternal age influence offspring fitness in <i>Drosophila</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000, 267, 2105-2110.	2.6	160
74	Establishment of wMel Wolbachia in <i>Aedes aegypti</i> mosquitoes and reduction of local dengue transmission in Cairns and surrounding locations in northern Queensland, Australia. <i>Gates Open Research</i> , 2019, 3, 1547.	1.1	160
75	Environmental effects on cytoplasmic incompatibility and bacterial load in Wolbachia-infected <i>Drosophila simulans</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1998, 86, 13-24.	1.4	159
76	Microbe-induced cytoplasmic incompatibility as a mechanism for introducing transgenes into arthropod populations. <i>Insect Molecular Biology</i> , 1999, 8, 243-255.	2.0	159
77	Comparing phenotypic effects and molecular correlates of developmental, gradual and rapid cold acclimation responses in <i>Drosophila melanogaster</i> . <i>Functional Ecology</i> , 2012, 26, 84-93.	3.6	157
78	Genome-wide SNPs lead to strong signals of geographic structure and relatedness patterns in the major arbovirus vector, <i>Aedes aegypti</i> . <i>BMC Genomics</i> , 2014, 15, 275.	2.8	157
79	Establishment of wMel Wolbachia in <i>Aedes aegypti</i> mosquitoes and reduction of local dengue transmission in Cairns and surrounding locations in northern Queensland, Australia. <i>Gates Open Research</i> , 2019, 3, 1547.	1.1	157
80	Consequences of Heat Hardening on a Field Fitness Component in <i>Drosophila</i> Depend on Environmental Temperature. <i>American Naturalist</i> , 2007, 169, 175-183.	2.1	152
81	Thermal ramping rate influences evolutionary potential and species differences for upper thermal limits in <i>Drosophila</i> . <i>Functional Ecology</i> , 2010, 24, 694-700.	3.6	152
82	Selection for starvation resistance in <i>Drosophila melanogaster</i> : physiological correlates, enzyme activities and multiple stress responses. <i>Journal of Evolutionary Biology</i> , 1999, 12, 370-379.	1.7	150
83	Geographical Variation in the Acclimation Responses of <i>Drosophila</i> to Temperature Extremes. <i>American Naturalist</i> , 1993, 142, S93-S113.	2.1	148
84	Complexity of the cold acclimation response in <i>Drosophila melanogaster</i> . <i>Journal of Insect Physiology</i> , 2006, 52, 94-104.	2.0	148
85	Unidirectional Incompatibility between Populations of <i>Drosophila simulans</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1986, 40, 692.	2.3	147
86	RAPID LOSS OF STRESS RESISTANCE IN <i>DROSOPHILA MELANOGASTER</i> UNDER ADAPTATION TO LABORATORY CULTURE. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 436-438.	2.3	141
87	Wolbachia dynamics and host effects: what has (and has not) been demonstrated?. <i>Trends in Ecology and Evolution</i> , 2002, 17, 257-262.	8.7	135
88	A laboratory study of male territoriality in the sibling species <i>Drosophila melanogaster</i> and <i>D. simulans</i> . <i>Animal Behaviour</i> , 1987, 35, 807-818.	1.9	131
89	Clinal variation in <i>Drosophila serrata</i> for stress resistance and body size. <i>Genetical Research</i> , 2002, 79, 141-148.	0.9	131
90	Response of Two Heat Shock Genes to Selection for Knockdown Heat Resistance in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1996, 143, 1615-1627.	2.9	130

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91	Salinized rivers: degraded systems or new habitats for salt-tolerant faunas?. <i>Biology Letters</i> , 2016, 12, 20151072.	2.3	129
92	Rapid Global Spread of wRi-like <i>Wolbachia</i> across Multiple <i>Drosophila</i> . <i>Current Biology</i> , 2018, 28, 963-971.e8.	3.9	127
93	Matching the genetics of released and local <i>Aedes aegypti</i> populations is critical to assure <i>Wolbachia</i> invasion. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007023.	3.0	125
94	Evolutionary Ecology of <i>Wolbachia</i> Releases for Disease Control. <i>Annual Review of Genetics</i> , 2019, 53, 93-116.	7.6	123
95	Identification of a candidate adaptive polymorphism for <i>Drosophila</i> life history by parallel independent clines on two continents. <i>Molecular Ecology</i> , 2010, 19, 760-774.	3.9	119
96	Partial cytoplasmic incompatibility between two Australian populations of <i>Drosophila melanogaster</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1988, 48, 61-67.	1.4	117
97	Comparing Different Measures of Heat Resistance in Selected Lines of <i>Drosophila melanogaster</i> . <i>Journal of Insect Physiology</i> , 1997, 43, 393-405.	2.0	117
98	The Effects of Host Age, Host Nuclear Background and Temperature on Phenotypic Effects of the Virulent <i>Wolbachia</i> Strain <i>popcorn</i> in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2003, 164, 1027-1034.	2.9	117
99	Demographic factors and genetic variation influence population persistence under environmental change. <i>Journal of Evolutionary Biology</i> , 2009, 22, 124-133.	1.7	114
100	Genetic rescue increases fitness and aids rapid recovery of an endangered marsupial population. <i>Nature Communications</i> , 2017, 8, 1071.	12.8	113
101	Direct and correlated responses to selection for desiccation resistance: a comparison of <i>Drosophila melanogaster</i> and <i>D. simulans</i> . <i>Journal of Evolutionary Biology</i> , 1993, 6, 643-657.	1.7	112
102	A c-Rel subdomain responsible for enhanced DNA-binding affinity and selective gene activation. <i>Genes and Development</i> , 2005, 19, 2138-2151.	5.9	111
103	PLASTICITY VERSUS ENVIRONMENTAL CANALIZATION: POPULATION DIFFERENCES IN THERMAL RESPONSES ALONG A LATITUDINAL GRADIENT IN <i>DROSOPHILA SERRATA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 1954-1963.	2.3	111
104	GEOGRAPHIC VARIATION FOR WING SHAPE IN <i>DROSOPHILA SERRATA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 1068-1073.	2.3	110
105	Quantitative trait symmetry independent of Hsp90 buffering: Distinct modes of genetic canalization and developmental stability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13396-13401.	7.1	110
106	<i>Wolbachia</i> -like organisms and cytoplasmic incompatibility in <i>Drosophila simulans</i> . <i>Journal of Invertebrate Pathology</i> , 1989, 54, 344-352.	3.2	108
107	DNA sequence variation and latitudinal associations in hsp23 , hsp26 and hsp27 from natural populations of <i>Drosophila melanogaster</i> . <i>Molecular Ecology</i> , 2003, 12, 2025-2032.	3.9	108
108	Evidence for a robust sex-specific trade-off between cold resistance and starvation resistance in <i>Drosophila melanogaster</i> . <i>Journal of Evolutionary Biology</i> , 2005, 18, 804-810.	1.7	108

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109	<i>Wolbachia</i> supplement biotin and riboflavin to enhance reproduction in planthoppers. <i>ISME Journal</i> , 2020, 14, 676-687.	9.8	108
110	High-Throughput PCR Assays To Monitor <i>Wolbachia</i> Infection in the Dengue Mosquito (<i>Aedes aegypti</i>) and <i>Drosophila simulans</i> . <i>Applied and Environmental Microbiology</i> , 2012, 78, 4740-4743.	3.1	107
111	Microclimate modelling at macro scales: a test of a general microclimate model integrated with gridded continental-scale soil and weather data. <i>Methods in Ecology and Evolution</i> , 2014, 5, 273-286.	5.2	107
112	The latitudinal cline in the In(3R)Payne inversion polymorphism has shifted in the last 20 years in Australian <i>Drosophila melanogaster</i> populations. <i>Molecular Ecology</i> , 2005, 14, 851-858.	3.9	105
113	Impacts of recent climate change on terrestrial flora and fauna: Some emerging Australian examples. <i>Austral Ecology</i> , 2019, 44, 3-27.	1.5	105
114	GENETIC DIVERGENCE UNDER UNIFORM SELECTION. II. DIFFERENT RESPONSES TO SELECTION FOR KNOCKDOWN RESISTANCE TO ETHANOL AMONG <i>DROSOPHILA MELANOGASTER</i> POPULATIONS AND THEIR REPLICATE LINES. <i>Genetics</i> , 1986, 114, 145-164.	2.9	105
115	Loss of cytoplasmic incompatibility in <i>Wolbachia</i> -infected <i>Aedes aegypti</i> under field conditions. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007357.	3.0	104
116	Dissecting adaptive clinal variation: markers, inversions and size/stress associations in <i>Drosophila melanogaster</i> from a central field population. <i>Ecology Letters</i> , 2002, 5, 756-763.	6.4	103
117	Fitness of wAlbB <i>Wolbachia</i> Infection in <i>Aedes aegypti</i> : Parameter Estimates in an Outcrossed Background and Potential for Population Invasion. <i>American Journal of Tropical Medicine and Hygiene</i> , 2016, 94, 507-516.	1.4	103
118	Conservation of genetic uniqueness of populations may increase extinction likelihood of endangered species: the case of Australian mammals. <i>Frontiers in Zoology</i> , 2016, 13, 31.	2.0	103
119	Clinal variation and laboratory adaptation in the rainforest species <i>Drosophila birchii</i> for stress resistance, wing size, wing shape and development time. <i>Journal of Evolutionary Biology</i> , 2005, 18, 213-222.	1.7	102
120	Postponed reproduction as an adaptation to winter conditions in <i>Drosophila melanogaster</i> : evidence for clinal variation under semi-natural conditions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 2163-2168.	2.6	101
121	Response To Natural And Laboratory Selection At The <i>Drosophila</i> Hsp70 Genes. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 1796-1801.	2.3	101
122	Persistence of a <i>Wolbachia</i> infection frequency cline in <i>Drosophila melanogaster</i> and the possible role of reproductive dormancy. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 979-997.	2.3	99
123	Nonclinality of Molecular Variation Implicates Selection in Maintaining a Morphological Cline of <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2001, 158, 319-323.	2.9	98
124	Vegetation increases the abundance of natural enemies in vineyards. <i>Biological Control</i> , 2009, 49, 259-269.	3.0	97
125	Rates and Patterns of Laboratory Adaptation in (Mostly) Insects. <i>Journal of Economic Entomology</i> , 2018, 111, 501-509.	1.8	96
126	Night warming on hot days produces novel impacts on development, survival and reproduction in a small arthropod. <i>Journal of Animal Ecology</i> , 2014, 83, 769-778.	2.8	95

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127	Candidate genes and thermal phenotypes: identifying ecologically important genetic variation for thermotolerance in the Australian <i>Drosophila melanogaster</i> cline. <i>Molecular Ecology</i> , 2007, 16, 2948-2957.	3.9	92
128	Conservation genetics as a management tool: The five best-supported paradigms to assist the management of threatened species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	92
129	Effects of ground cover (straw and compost) on the abundance of natural enemies and soil macro invertebrates in vineyards. <i>Agricultural and Forest Entomology</i> , 2007, 9, 173-179.	1.3	91
130	Response to selection for rapid chill-coma recovery in <i>Drosophila melanogaster</i> : physiology and life-history traits. <i>Genetical Research</i> , 2005, 85, 15-22.	0.9	90
131	Acclimation for desiccation resistance in <i>Drosophila melanogaster</i> and the association between acclimation responses and genetic variation. <i>Journal of Insect Physiology</i> , 1990, 36, 885-891.	2.0	89
132	Thermal tolerance trade-offs associated with the right arm of chromosome 3 and marked by the <i>hsr-omega</i> gene in <i>Drosophila melanogaster</i> . <i>Heredity</i> , 2003, 90, 195-202.	2.6	89
133	Application of wMelPop Wolbachia Strain to Crash Local Populations of <i>Aedes aegypti</i> . <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003930.	3.0	89
134	Selection for adult desiccation resistance in <i>Drosophila melanogaster</i> : fitness components, larval resistance and stress correlations. <i>Biological Journal of the Linnean Society</i> , 1993, 48, 43-54.	1.6	88
135	Impact of hot events at different developmental stages of a moth: the closer to adult stage, the less reproductive output. <i>Scientific Reports</i> , 2015, 5, 10436.	3.3	88
136	THE ASSOCIATION BETWEEN FLUCTUATING ASYMMETRY, TRAIT VARIABILITY, TRAIT HERITABILITY, AND STRESS: A MULTIPLY REPLICATED EXPERIMENT ON COMBINED STRESSES IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 493-505.	2.3	87
137	A predicted niche shift corresponds with increased thermal resistance in an invasive mite, <i>Hyalothyridites destructor</i> . <i>Global Ecology and Biogeography</i> , 2013, 22, 942-951.	5.8	87
138	HSP90 AND THE QUANTITATIVE VARIATION OF WING SHAPE IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 2529-2538.	2.3	86
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257	Effects of Cold Storage on Field and Laboratory Performance of <i>Trichogramma carverae</i> (Hymenoptera: Trichogrammatidae) and the Response of Three <i>Trichogramma</i> spp. (<i>T. carverae</i> , <i>T. nr.</i>) <i>Tj ETQq1 1 0.784314 rg BT / Overlock 10 T</i> <i>Entomology</i> , 2004, 97, 213-221.	1.8	48
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402	Bioclimatic transect networks: Powerful observatories of ecological change. <i>Ecology and Evolution</i> , 2017, 7, 4607-4619.	1.9	29
403	Intense Selection of Mite Clones in a Heterogeneous Environment. <i>Evolution; International Journal of Organic Evolution</i> , 1998, 52, 1325.	2.3	28
404	Changes in the Heritability of Five Morphological Traits Under Combined Environmental Stresses in <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1998, 52, 1207.	2.3	28
405	CHANGES IN THE HERITABILITY OF FIVE MORPHOLOGICAL TRAITS UNDER COMBINED ENVIRONMENTAL STRESSES IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1998, 52, 1207-1212.	2.3	28
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417	Evidence for host-associated clones of grape phylloxera <i>Daktulosphaira vitifoliae</i> (Hemiptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.6	27
418	Developing an Ecotoxicological Testing Standard for Predatory Mites in Australia: Acute and Sublethal Effects of Fungicides on <i>Euseius victoriensis</i> and <i>Galendromus occidentalis</i> (Acarina: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 61	1.8	27
419	A genetic perspective on insect climate specialists. <i>Australian Journal of Entomology</i> , 2010, 49, 93-103.	1.1	27
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429	Global Warming: Fly Populations Are Responding Rapidly to Climate Change. <i>Current Biology</i> , 2007, 17, R16-R18.	3.9	26
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434	Multiple refugia from penultimate glaciations in East Asia demonstrated by phylogeography and ecological modelling of an insect pest. <i>BMC Evolutionary Biology</i> , 2018, 18, 152.	3.2	26
435	Major range loss predicted from lack of heat adaptability in an alpine <i>Drosophila</i> species. <i>Science of the Total Environment</i> , 2019, 695, 133753.	8.0	26
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439	The effects of acclimation and rearing conditions on the response of tropical and temperate populations of <i>Drosophila melanogaster</i> and <i>D. simulans</i> to a temperature gradient (Diptera: Tj ETQq1 1 0.784314 μ BT /Overlock 10 Tf 50 382	0.7	25
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443	Does mass rearing of field collected <i>Trichogramma brassicae</i> wasps influence acceptance of European corn borer eggs?. <i>Entomologia Experimentalis Et Applicata</i> , 2003, 109, 197-203.	1.4	25
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540	NO INBREEDING DEPRESSION FOR LOW TEMPERATURE DEVELOPMENTAL ACCLIMATION ACROSS MULTIPLE <i>DROSOPHILA</i> SPECIES. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 3195-3201.	2.3	17

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542	Pest management challenges for biofuel crop production. <i>Current Opinion in Environmental Sustainability</i> , 2011, 3, 95-99.	6.3	17
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558	Predicting the spatial dynamics of <i>Wolbachia</i> infections in <i>Aedes aegypti</i> arbovirus vector populations in heterogeneous landscapes. <i>Journal of Applied Ecology</i> , 2019, 56, 1674-1686.	4.0	16

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564	Predicting species and community responses to global change using structured expert judgement: An Australian mountain ecosystems case study. <i>Global Change Biology</i> , 2021, 27, 4420-4434.	9.5	16
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582	Facilitating <i>Wolbachia</i> invasions. <i>Austral Entomology</i> , 2014, 53, 125-132.	1.4	14
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591	Estimating dispersal using close kin dyads: The <code>kindisperse</code> R package. <i>Molecular Ecology Resources</i> , 2022, 22, 1200-1212.	4.8	14
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656	Contrasting Patterns of Virus Protection and Functional Incompatibility Genes in Two Conspecific <i>Wolbachia</i> Strains from <i>Drosophila pandora</i> . <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	10
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665	Developmental Stability as a Potential Tool in the Early Detection of Salinity Stress in Wheat. <i>International Journal of Plant Sciences</i> , 2003, 164, 325-331.	1.3	9
666	Revisiting Heritable Variation and Limits to Species Distribution: Recent Developments. <i>Israel Journal of Ecology and Evolution</i> , 2006, 52, 247-261.	0.6	9

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667	The distribution, abundance and life cycle of the pest mites <i>Balaustium medicagoense</i> (Prostigmata: Erythraeidae) and <i>Bryobia</i> spp. (Prostigmata: Tetranychidae) in Australia. Australian Journal of Entomology, 2011, 50, 22-36.	1.1	9
668	Genetic mapping of adaptive wing size variation in <i>Drosophila simulans</i> . Heredity, 2011, 107, 22-29.	2.6	9
669	Taking advantage of adaptations when managing threatened species within variable environments: the case of the dwarf galaxias, <i>Galaxiella pusilla</i> (Teleostei, Galaxiidae). Marine and Freshwater Research, 2017, 68, 175.	1.3	9
670	Behavioral thermoregulation in a small herbivore avoids direct UVB damage. Journal of Insect Physiology, 2018, 107, 276-283.	2.0	9
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681	A replicated comparison of breeding-container suitability for the dengue vector <i>Aedes aegypti</i> in tropical and temperate Australia. Austral Ecology, 2013, 38, 219-229.	1.5	8
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683	The Parthenogenetic Cosmopolitan Chironomid, <i>Paratanytarsus grimmii</i> , as a New Standard Test Species for Ecotoxicology: Culturing Methodology and Sensitivity to Aqueous Pollutants. Bulletin of Environmental Contamination and Toxicology, 2015, 95, 350-356.	2.7	8
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699	Maternal effects in gene expression of interspecific coral hybrids. <i>Molecular Ecology</i> , 2021, 30, 517-527.	3.9	7
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702	Olfactory responses of <i>Drosophila melanogaster</i> selected for knockdown resistance to ethanol. <i>Behavior Genetics</i> , 1987, 17, 307-312.	2.1	6

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716	Population genomic signatures of the oriental fruit moth related to the Pleistocene climates. <i>Communications Biology</i> , 2022, 5, 142.	4.4	6
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718	Distribution and spacing of <i>Drosophila mycetophaga</i> flies on bracket fungi used as mating arenas. <i>Ecological Entomology</i> , 1995, 20, 203-207.	2.2	5
719	Correlations between measures of heat resistance and acclimation in two species of <i>Drosophila</i> and their hybrids. <i>Biological Journal of the Linnean Society</i> , 1998, 64, 449-462.	1.6	5
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727	Low levels of genetic differentiation with isolation by geography and environment in populations of <i>Drosophila melanogaster</i> from across China. <i>Heredity</i> , 2021, 126, 942-954.	2.6	5
728	Vector control: Discovery of <i>Wolbachia</i> in malaria vectors. <i>Current Biology</i> , 2021, 31, R738-R740.	3.9	5
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731	Large- and small-scale geographic structures affecting genetic patterns across populations of an Alpine butterfly. <i>Ecology and Evolution</i> , 2021, 11, 14697-14714.	1.9	5
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733	Changes in Grape Phylloxera Abundance in Ungrafted Vineyards. <i>Journal of Economic Entomology</i> , 2006, 99, 1774-1783.	1.8	5
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735	A Comment on In-Group/Out-Group Comparisons for Fluctuating Asymmetry Based on Trait Values from the Left or Right Sides of an Individual. <i>American Naturalist</i> , 1999, 153, 140-142.	2.1	4
736	Biology, ecology and control of the <i>Pentthaleus</i> species complex (Acari: Pentthaleidae). <i>Experimental and Applied Acarology</i> , 2004, 34, 211-237.	1.6	4
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738	III.8. Evolutionary Limits and Constraints. , 2013, , 247-252.		4

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740	Distribution and influence of grazing on wheat curl mites (<i>Aceria tosichella</i>). <i>Overlock 10 Tj 50 702 T</i>	1.8	4
741	Does increased heat resistance result in higher susceptibility to predation? A test using <i>Drosophila melanogaster</i> selection and hardening. <i>Journal of Evolutionary Biology</i> , 2017, 30, 1153-1164.	1.7	4
742	Metabolomic Profiles of a Midge (<i>Procladius villosimanus</i> , Kieffer) Are Associated with Sediment Contamination in Urban Wetlands. <i>Metabolites</i> , 2017, 7, 64.	2.9	4
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744	The effects of individual nonheritable variation on fitness estimation and coexistence. <i>Ecology and Evolution</i> , 2019, 9, 8995-9004.	1.9	4
745	Fitness Costs Associated with Pyrethroid Resistance in <i>Halotydeus destructor</i> (Tucker) (Acari: Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj 50 702 T) 1270-1281.	1.8	4
746	Comparative genome and transcriptome analyses reveal innate differences in response to host plants by two color forms of the two-spotted spider mite <i>Tetranychus urticae</i> . <i>BMC Genomics</i> , 2021, 22, 569.	2.8	4
747	Using unsorted sweep-net samples to rapidly assess macroinvertebrate biodiversity. <i>Freshwater Science</i> , 2021, 40, 551-565.	1.8	4
748	A diagnostic primer pair to distinguish between wMel and wAlbB <i>Wolbachia</i> infections. <i>PLoS ONE</i> , 2021, 16, e0257781.	2.5	4
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751	Limonene Emissions: Do Different Types Have Different Biological Effects?. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 10505.	2.6	4
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753	DNA barcoding and metabarcoding of highly diverse aquatic mites (Acarina) can improve their use in routine biological monitoring. <i>Marine and Freshwater Research</i> , 2022, 73, 900-914.	1.3	4
754	Habitat marking: Parallel genetic divergence in two <i>Drosophila</i> species. <i>Heredity</i> , 1985, 54, 203-207.	2.6	3
755	Sensitivity of pupae of lightbrown apple moth, <i>Epiphyas postvittana</i> (Walker) (Lepidoptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj 50 702 T) 1.1	1.1	3
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760	Efficacy of carbon dioxide treatments for the control of the two-spotted spider mite, <i>Tetranychus urticae</i> , and treatment impact on plant seedlings. <i>Experimental and Applied Acarology</i> , 2018, 75, 143-153.	1.6	3
761	Changes in lipid classes of <i>Drosophila melanogaster</i> in response to selection for three stress traits. <i>Journal of Insect Physiology</i> , 2019, 117, 103890.	2.0	3
762	Horizontal transmission and recombination of <i>Wolbachia</i> in the butterfly tribe <i>Aeromachini</i> Tutt, 1906 (Lepidoptera: Hesperidae). <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	1.8	3
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764	Study of aphid parasitoids (Hymenoptera: Braconidae) in Australian grain production landscapes. <i>Austral Entomology</i> , 2021, 60, 722-737.	1.4	3
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769	Is what you see what you get? The relationship between field observed and laboratory observed aphid parasitism rates in canola fields. <i>Pest Management Science</i> , 2022, 78, 3596-3607.	3.4	3
770	Residual influences on fecundity in drosophilid species. <i>Experientia</i> , 1987, 43, 213-215.	1.2	2
771	Mutation and Phenotypic Variation. , 2005, , 159-189.		2
772	<i>Drosophila</i> and Selection in Nature: From Laboratory Fitness Components to Field Assessments. , 2009, , 169-182.		2
773	MEASURING THE PLASTICITY OF DEVELOPMENTAL RATE ACROSS INSECT POPULATIONS: COMMENT ON ROCHA AND KLACZKO (2012). <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 1544-1547.	2.3	2
774	Effects of chlorantraniliprole and chromafenozide on mortality and feeding cessation of the fall webworm, <i>Hyphantria cunea</i> (Lepidoptera: Arctiidae). <i>Journal of Asia-Pacific Entomology</i> , 2020, 23, 1067-1072.	0.9	2

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777	Reducing mosquito-borne disease transmission to humans: A systematic review of cluster randomised controlled studies that assess interventions other than non-targeted insecticide. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0009601.	3.0	2
778	Two Newly Introduced <i>Wolbachia</i> Endosymbionts Induce Cell Host Differences in Competitiveness and Metabolic Responses. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0147921.	3.1	2
779	Biological Invasions, Climate Change, and Genomics. , 2016, , 37-70.		2
780	The Effect of Nonrandom Mating on Wolbachia Dynamics: Implications for Population Replacement and Sterile Releases in <i>Aedes</i> Mosquitoes. <i>American Journal of Tropical Medicine and Hygiene</i> , 2018, 99, 608-617.	1.4	2
781	Climate warming threatens critically endangered wingless stonefly <i>Riekoperla darlingtoni</i> (Illies). <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i>	1.4	2
782	Identification of two leafminer parasitoids (Hymenoptera: Eulophidae), <i>Neochrysocharis formosa</i> and <i>Proacrias</i> sp. from Australia, with both showing thelytoky and infection by <i>Rickettsia</i> . <i>Austral Entomology</i> , 0, , .	1.4	2
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784	THE CONTRASTING GENETIC ARCHITECTURE OF WING SIZE, VIABILITY, AND DEVELOPMENT TIME IN A RAINFOREST SPECIES AND ITS MORE WIDELY DISTRIBUTED RELATIVE. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 106.	2.3	1
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786	Ecophysiological forecasting for environmental change adaptation. <i>Functional Ecology</i> , 2013, 27, 930-933.	3.6	1
787	Field associations of first generation densities of the pest mites <i>Halotydeus destructor</i> and <i>Penthaeus major</i> in pasture. <i>Experimental and Applied Acarology</i> , 2018, 76, 487-506.	1.6	1
788	Genetic correlations and their dependence on environmental similarity—Insights from livestock data. <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 1672-1678.	2.3	1
789	Phylogenetic signals in pest abundance and distribution range of spider mites. <i>BMC Evolutionary Biology</i> , 2019, 19, 223.	3.2	1
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794	Quantitative tools and simultaneous actions needed for species conservation under climate change-Reply to Shoo et al. (2013). <i>Climatic Change</i> , 2015, 129, 9-11.	3.6	0
795	Genetic structure of <i>Gahnia radula</i> (Cyperaceae), a key sedge for revegetation. <i>Australian Journal of Botany</i> , 2017, 65, 128.	0.6	0
796	Environmental Stress and Evolutionary Change. , 2019, , 197-203.		0
797	Testing the environmental warming responses of <i>Brachyscome</i> daisy species using a common garden approach. <i>Austral Ecology</i> , 2020, 45, 717-730.	1.5	0
798	Life stages of the non-native <i>Ommatoiulus moreleti</i> (Lucas, 1860) (Julida, Julidae) in Australian small grain systems. <i>Agricultural and Forest Entomology</i> , 2021, 23, 429.	1.3	0
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800	Differential toxicological effects of natural and synthetic sources and enantiomeric forms of limonene on mosquito larvae. <i>Air Quality, Atmosphere and Health</i> , 0, , 1.	3.3	0
801	Introduction: Ain't I a Fluctuating Identity?. , 1996, , 1-7.		0
802	Characterization of the first <i>Wolbachia</i> from the genus <i>Scaptodrosophila</i> , a male-killer from the rainforest species <i>S. claytoni</i> . <i>Insect Science</i> , 2022, , .	3.0	0
803	Population differentiation and intraspecific genetic admixture in two <i>Eucryptorrhynchus</i> weevils (Coleoptera: Curculionidae) across northern China. <i>Ecology and Evolution</i> , 2022, 12, e8806.	1.9	0
804	Australian <i>Bryobia</i> mites (Trombidiformes: Tetranychidae) form a complex of cryptic taxa with unique climatic niches and insecticide responses. <i>Pest Management Science</i> , 2022, , .	3.4	0
805	Chromosome Comparisons of Australian <i>Scaptodrosophila</i> Species. <i>Insects</i> , 2022, 13, 364.	2.2	0
806	Population genetics of the metabolically related <i>Adh</i> , <i>Gpdh</i> and <i>Tpi</i> polymorphisms in <i>Drosophila melanogaster</i> : II. Temporal and Spatial Variation in an Orchard Population. <i>Genetique, Selection, Evolution</i> , 1985, 17, 41-58.	0.0	0
807	Using laboratory-cultured nonbiting midge larvae (<i>Chironomus tepperi</i>) to identify early metabolic changes following exposure to zinc. , 2022, , 291-306.		0