

Thomas Flatt

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

6,396
citations

81900

39
h-index

79698

73
g-index

157
all docs

157
docs citations

157
times ranked

6563
citing authors

#	ARTICLE	IF	CITATIONS
1	Hormonal pleiotropy and the juvenile hormone regulation of <i>Drosophila</i> development and life history. <i>BioEssays</i> , 2005, 27, 999-1010.	2.5	422
2	The Evolutionary Genetics of Canalization. <i>Quarterly Review of Biology</i> , 2005, 80, 287-316.	0.1	382
3	Size and shape: the developmental regulation of static allometry in insects. <i>BioEssays</i> , 2007, 29, 536-548.	2.5	304
4	Survival costs of reproduction in <i>Drosophila</i> . <i>Experimental Gerontology</i> , 2011, 46, 369-375.	2.8	277
5	<i>Drosophila</i> germ-line modulation of insulin signaling and lifespan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6368-6373.	7.1	260
6	Genome-wide patterns of latitudinal differentiation among populations of <i>Drosophila melanogaster</i> from North America. <i>Molecular Ecology</i> , 2012, 21, 4748-4769.	3.9	256
7	Reproduction, Fat Metabolism, and Life Span: What Is the Connection?. <i>Cell Metabolism</i> , 2013, 17, 10-19.	16.2	244
8	Hormonal regulation of the humoral innate immune response in <i>Drosophila melanogaster</i> . <i>Journal of Experimental Biology</i> , 2008, 211, 2712-2724.	1.7	216
9	Adaptation of <i>Drosophila</i> to a novel laboratory environment reveals temporally heterogeneous trajectories of selected alleles. <i>Molecular Ecology</i> , 2012, 21, 4931-4941.	3.9	194
10	Evolutionary genomics can improve prediction of species' responses to climate change. <i>Evolution Letters</i> , 2020, 4, 4-18.	3.3	190
11	A New Definition of Aging?. <i>Frontiers in Genetics</i> , 2012, 3, 148.	2.3	175
12	Horizons in the evolution of aging. <i>BMC Biology</i> , 2018, 16, 93.	3.8	164
13	Genomic Evidence for Adaptive Inversion Clines in <i>Drosophila melanogaster</i> . <i>Molecular Biology and Evolution</i> , 2016, 33, 1317-1336.	8.9	157
14	Ecdysone triggered PGRP-LC expression controls <i>Drosophila</i> innate immunity. <i>EMBO Journal</i> , 2013, 32, 1626-1638.	7.8	127
15	THE EFFECTS OF MUTUALISTIC ANTS ON APHID LIFE HISTORY TRAITS. <i>Ecology</i> , 2000, 81, 3522-3529.	3.2	125
16	JUVENILE HORMONE AS A REGULATOR OF THE TRADE-OFF BETWEEN REPRODUCTION AND LIFE SPAN IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2007, 61, 1980-1991.	2.3	108
17	What is metamorphosis?. <i>Integrative and Comparative Biology</i> , 2006, 46, 655-661.	2.0	105
18	Genomic Analysis of European <i>Drosophila melanogaster</i> Populations Reveals Longitudinal Structure, Continent-Wide Selection, and Previously Unknown DNA Viruses. <i>Molecular Biology and Evolution</i> , 2020, 37, 2661-2678.	8.9	104

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19	Inference of chromosomal inversion dynamics from PoolSeq data in natural and laboratory populations of <i>Drosophila melanogaster</i> . <i>Molecular Ecology</i> , 2014, 23, 1813-1827.	3.9	101
20	Evolution in group-structured populations can resolve the tragedy of the commons. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 1477-1481.	2.6	100
21	Life-History Evolution and the Genetics of Fitness Components in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2020, 214, 3-48.	2.9	98
22	Life-History Evolution and the Polyphenic Regulation of Somatic Maintenance and Survival. <i>Quarterly Review of Biology</i> , 2013, 88, 185-218.	0.1	97
23	Integrating evolutionary and molecular genetics of aging. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009, 1790, 951-962.	2.4	91
24	Counting calories in <i>Drosophila</i> diet restriction. <i>Experimental Gerontology</i> , 2007, 42, 247-251.	2.8	88
25	dSir2 and Dmp53 interact to mediate aspects of CR-dependent life span extension in <i>D. melanogaster</i> . <i>Aging</i> , 2008, 1, 38-48.	3.1	87
26	A role for genetic accommodation in evolution?. <i>BioEssays</i> , 2006, 28, 868-873.	2.5	85
27	The adaptive significance of chromosomal inversion polymorphisms in <i>Drosophila melanogaster</i> . <i>Molecular Ecology</i> , 2019, 28, 1263-1282.	3.9	84
28	VARIATION IN THERMAL PERFORMANCE AND REACTION NORMS AMONG POPULATIONS OF <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 3573-3587.	2.3	72
29	Endocrine uncoupling of the trade-off between reproduction and somatic maintenance in eusocial insects. <i>Current Opinion in Insect Science</i> , 2016, 16, 1-8.	4.4	70
30	Broad geographic sampling reveals the shared basis and environmental correlates of seasonal adaptation in <i>Drosophila</i> . <i>eLife</i> , 2021, 10, .	6.0	66
31	Evolution of longevity improves immunity in <i>Drosophila</i> . <i>Evolution Letters</i> , 2018, 2, 567-579.	3.3	62
32	Integrating mechanistic and evolutionary analysis of life history variation. , 2011, , 3-10.		61
33	Reproductive and post-reproductive life history of wild-caught <i>Drosophila melanogaster</i> under laboratory conditions. <i>Journal of Evolutionary Biology</i> , 2013, 26, 1508-1520.	1.7	59
34	SIMILARITIES AND DIFFERENCES IN ALTITUDINAL VERSUS LATITUDINAL VARIATION FOR MORPHOLOGICAL TRAITS IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 1385-1398.	2.3	58
35	Aminergic Signaling Controls Ovarian Dormancy in <i>Drosophila</i> . <i>Scientific Reports</i> , 2018, 8, 2030.	3.3	56
36	Winter weather affects asp viper <i>Vipera aspis</i> population dynamics through susceptible juveniles. <i>Oikos</i> , 2005, 110, 55-66.	2.7	53

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37	The diversity of population responses to environmental change. <i>Ecology Letters</i> , 2019, 22, 342-353.	6.4	52
38	The interplay between immunity and aging in <i>Drosophila</i> . <i>F1000Research</i> , 2018, 7, 160.	1.6	52
39	Comparing thyroid and insect hormone signaling. <i>Integrative and Comparative Biology</i> , 2006, 46, 777-794.	2.0	51
40	Spatially varying selection shapes life history clines among populations of <i>Drosophila melanogaster</i> from sub-Saharan Africa. <i>Journal of Evolutionary Biology</i> , 2015, 28, 826-840.	1.7	51
41	Steroid hormone regulation of <i>C. elegans</i> and <i>Drosophila</i> aging and life history. <i>Experimental Gerontology</i> , 2011, 46, 141-147.	2.8	50
42	Comparative transcriptomic analysis of the mechanisms underpinning ageing and fecundity in social insects. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20190728.	4.0	47
43	Phenotypic variation in an oviparous montane lizard (<i>Bassiana duperreyi</i>): the effects of thermal and hydric incubation environments. <i>Biological Journal of the Linnean Society</i> , 2001, 74, 339-350.	1.6	47
44	Still Pondering an Age-Old Question. <i>Science</i> , 2007, 318, 1255-1256.	12.6	41
45	<i>Drosophila</i> Evolution over Space and Time (DEST): A New Population Genomics Resource. <i>Molecular Biology and Evolution</i> , 2021, 38, 5782-5805.	8.9	37
46	Host Range and Specificity of the <i>Drosophila</i> C Virus. <i>PLoS ONE</i> , 2010, 5, e12421.	2.5	36
47	An inversion supergene in <i>Drosophila</i> underpins latitudinal clines in survival traits. <i>Journal of Evolutionary Biology</i> , 2018, 31, 1354-1364.	1.7	35
48	Altering the Temporal Regulation of One Transcription Factor Drives Evolutionary Trade-Offs between Head Sensory Organs. <i>Developmental Cell</i> , 2019, 50, 780-792.e7.	7.0	34
49	Pleiotropic Effects of methoprene-tolerant (Met), a Gene Involved in Juvenile Hormone Metabolism, on Life History Traits in <i>Drosophila melanogaster</i> . <i>Genetica</i> , 2004, 122, 141-160.	1.1	31
50	Genomics of clinal variation in <i>Drosophila</i> : disentangling the interactions of selection and demography. <i>Molecular Ecology</i> , 2016, 25, 1023-1026.	3.9	31
51	Neuronal Inputs and Outputs of Aging and Longevity. <i>Frontiers in Genetics</i> , 2013, 4, 71.	2.3	30
52	A clinal polymorphism in the insulin signaling transcription factor <i>foxo</i> contributes to life history adaptation in <i>Drosophila</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 1774-1792.	2.3	28
53	Parallel effects of the inversion <i>In(3R)Payne</i> on body size across the North American and Australian clines in <i>Drosophila melanogaster</i> . <i>Journal of Evolutionary Biology</i> , 2016, 29, 1059-1072.	1.7	26
54	The discovery, distribution, and diversity of DNA viruses associated with <i>Drosophila melanogaster</i> in Europe. <i>Virus Evolution</i> , 2021, 7, veab031.	4.9	25

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55	Diet and longevity in the balance. <i>Nature</i> , 2009, 462, 989-990.	27.8	23
56	Amino acid modulation of lifespan and reproduction in <i>Drosophila</i> . <i>Current Opinion in Insect Science</i> , 2017, 23, 118-122.	4.4	23
57	Ubiquitous overexpression of the DNA repair factor dPrp19 reduces DNA damage and extends <i>Drosophila</i> life span. <i>Npj Aging and Mechanisms of Disease</i> , 2017, 3, 5.	4.5	23
58	Adaptation to developmental diet influences the response to selection on age at reproduction in the fruit fly. <i>Journal of Evolutionary Biology</i> , 2019, 32, 425-437.	1.7	23
59	Hormonal modulation of larval begging and growth in the burying beetle <i>Nicrophorus vespilloides</i> . <i>Animal Behaviour</i> , 2008, 75, 71-77.	1.9	22
60	Mark-Recapture Estimates of Survival in Populations of the Asp Viper, <i>Vipera aspis aspis</i> . <i>Journal of Herpetology</i> , 1997, 31, 558.	0.5	20
61	Distinct genomic signals of lifespan and life history evolution in response to postponed reproduction and larval diet in <i>Drosophila</i> . <i>Evolution Letters</i> , 2019, 3, 598-609.	3.3	20
62	Winter weather affects asp viper <i>Vipera aspis</i> population dynamics through susceptible juveniles. <i>Oikos</i> , 2005, 110, 55-66.	2.7	19
63	Transcriptome analysis reveals a major impact of JAK protein tyrosine kinase 2 (Tyk2) on the expression of interferon-responsive and metabolic genes. <i>BMC Genomics</i> , 2010, 11, 199.	2.8	19
64	Plasticity of lifespan: a reaction norm perspective. <i>Proceedings of the Nutrition Society</i> , 2014, 73, 532-542.	1.0	19
65	A Bit of Sex Stabilizes Host-Parasite Dynamics. <i>Journal of Theoretical Biology</i> , 2001, 212, 345-354.	1.7	16
66	Asymmetry, division of labour and the evolution of ageing in multicellular organisms. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20190729.	4.0	14
67	The Biology of Aging in Insects: From <i>Drosophila</i> to Other Insects and Back. <i>Annual Review of Entomology</i> , 2022, 67, 83-103.	11.8	14
68	Dietary restriction and other lifespan extending pathways converge at the activation of the downstream effector takeout. <i>Aging</i> , 2010, 2, 387-389.	3.1	14
69	The role of the nervous system in aging and longevity. <i>Frontiers in Genetics</i> , 2013, 4, 124.	2.3	13
70	Adaptation to fluctuating environments in a selection experiment with <i>Drosophila melanogaster</i> . <i>Ecology and Evolution</i> , 2017, 7, 3796-3807.	1.9	13
71	Living Long and Well: Prospects for a Personalized Approach to the Medicine of Ageing. <i>Gerontology</i> , 2016, 62, 409-416.	2.8	11
72	Gene Coexpression Network Reveals Highly Conserved, Well-Regulated Anti-Ageing Mechanisms in Old Ant Queens. <i>Genome Biology and Evolution</i> , 2021, 13, .	2.5	10

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73	What mechanistic insights can or cannot contribute to life history evolution: An exchange between Stearns, Heyland, and Flatt. , 2011, , 375-379.		9
74	The influence of ant-attendance on aphid behaviour investigated with the electrical penetration graph technique. <i>Entomologia Experimentalis Et Applicata</i> , 2002, 102, 13-20.	1.4	8
75	Juvenile and Steroid Hormones in <i>Drosophila melanogaster</i> Longevity. , 2005, , 415-448.		8
76	Genomic architecture of supergenes: connecting form and function. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, .	4.0	8
77	Allelic polymorphism at <i>foxo</i> contributes to local adaptation in <i>Drosophila melanogaster</i> . <i>Molecular Ecology</i> , 2021, 30, 2817-2830.	3.9	7
78	Transcriptomic evidence for a trade-off between germline proliferation and immunity in <i>Drosophila</i> . <i>Evolution Letters</i> , 2021, 5, 644-656.	3.3	7
79	On the fixation or nonfixation of inversions under epistatic selection. <i>Molecular Ecology</i> , 2021, 30, 3896-3897.	3.9	6
80	The genomic and physiological basis of life history variation in a butterfly metapopulation. <i>Molecular Ecology</i> , 2011, 20, 1795-1798.	3.9	5
81	Reproduction, Fat Metabolism, and Life Span: What Is the Connection?. <i>Cell Metabolism</i> , 2014, 19, 1066.	16.2	5
82	Mutation accumulation opposes polymorphism: supergenes and the curious case of balanced lethals. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, .	4.0	5
83	Stabilizing factors interact in promoting host-parasite coexistence. <i>Journal of Theoretical Biology</i> , 2004, 228, 241-249.	1.7	4
84	Paying the costs of reproduction. <i>ELife</i> , 2015, 4, e09556.	6.0	4
85	How flies turn food into progeny. <i>ELife</i> , 2019, 8, .	6.0	1
86	The rapid tempo of adaptation. <i>Science</i> , 2022, 375, 1226-1227.	12.6	1
87	Overexpression of the DNA repair factor SNEVhPrp19/hPso4 extends cellular and organismal life span and increases resistance to genotoxic stress. <i>Experimental Gerontology</i> , 2015, 68, 96.	2.8	0
88	Altering the Temporal Regulation of One Transcription Factor Drives Sensory Trade-Offs. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0