Trudy F C Mackay

List of Publications by Year
in descending order

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219 papers	26,622 citations	11651 70 h-index	7518 151 g-index
259 all docs	259 docs citations	259 times ranked	25172 citing authors

#	Article	IF	Citations
1	Finding the missing heritability of complex diseases. Nature, 2009, 461, 747-753.	27.8	7,490
2	The Drosophila melanogaster Genetic Reference Panel. Nature, 2012, 482, 173-178.	27.8	1,756
3	The genetics of quantitative traits: challenges and prospects. Nature Reviews Genetics, 2009, 10, 565-577.	16.3	1,061
4	The Genetic Architecture of Quantitative Traits. Annual Review of Genetics, 2001, 35, 303-339.	7.6	985
5	Epistasis and quantitative traits: using model organisms to study geneâ€“gene interactions. Nature Reviews Genetics, 2014, 15, 22-33.	16.3	730
6	Natural variation in genome architecture among 205 Drosophila melanogaster Genetic Reference Panel lines. Genome Research, 2014, 24, 1193-1208.	5.5	565
7	Systems genetics of complex traits in Drosophila melanogaster. Nature Genetics, 2009, 41, 299-307.	21.4	490
8	Genetic architecture of quantitative traits in mice, flies, and humans. Genome Research, 2009, 19, 723-733.	5.5	385
9	Quantitative trait loci in Drosophila. Nature Reviews Genetics, 2001, 2, 11-20.	16.3	370
10	Epistasis dominates the genetic architecture of Drosophila quantitative traits. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15553-15559.	7.1	348
11	Genotype-Environment Interaction for Quantitative Trait Loci Affecting Life Span in Drosophila melanogaster. Genetics, 2000, 154, 213-227.	2.9	303
12	Low mutation rates of microsatellite loci in Drosophila melanogaster. Nature Genetics, 1997, 15, 99-102.	21.4	223
13	Quantitative Trait Loci for Life Span in Drosophila melanogaster: Interactions With Genetic Background and Larval Density. Genetics, 2000, 155, 1773-1788.	2.9	222
14	The genetic architecture of quantitative traits: lessons from Drosophila. Current Opinion in Genetics and Development, 2004, 14, 253-257.	3.3	198
15	Using Whole-Genome Sequence Data to Predict Quantitative Trait Phenotypes in Drosophila melanogaster. PLoS Genetics, 2012, 8, e1002685.	3.5	191
16	Two Sites in the Delta Gene Region Contribute to Naturally Occurring Variation in Bristle Number in Drosophila melanogaster. Genetics, 1998, 149, 999-1017.	2.9	189
17	Dopa decarboxylase (Ddc) affects variation in Drosophila longevity. Nature Genetics, 2003, 34, 429-433.	21.4	176
18	Molecular and phenotypic variation in the achaete-scute region of Drosophila melanogaster. Nature, 1990, 348, 64-66.	27.8	165

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19	Quantitative Genomics of Aggressive Behavior in Drosophila melanogaster. PLoS Genetics, 2006, 2, e154.	3.5	165
20	The Genetic Architecture of Quantitative Traits Cannot Be Inferred from Variance Component Analysis. PLoS Genetics, 2016, 12, e1006421.	3.5	158
21	Effects of Single P-Element Insertions on Bristle Number and Viability in Drosophila melanogaster. Genetics, 1996, 143, 277-292.	2.9	158
22	Genotype-Environment Interactions at Quantitative Trait Loci Affecting Inflorescence Development inArabidopsis thaliana. Genetics, 2003, 165, 353-365.	2.9	151
23	Genetic Interactions Between Naturally Occuning Alleles at Quantitative Trait Loci and Mutant Alleles at Candidate Loci Affecting Bristle Number in Drosophila melanogaster. Genetics, 1996, 144, 1497-1510.	2.9	145
24	Novel Loci Control Variation in Reproductive Timing in Arabidopsis thaliana in Natural Environments. Genetics, 2002, 162, 1875-1884.	2.9	144
25	Drosophilabristles and the nature of quantitative genetic variation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 1513-1527.	4.0	134
26	Genetic basis of transcriptome diversity in Drosophila melanogaster. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6010-9.	7.1	134
27	Genome-wide association study of sleep in Drosophila melanogaster. BMC Genomics, 2013, 14, 281.	2.8	131
28	Why epistasis is important for tackling complex human disease genetics. Genome Medicine, 2014, 6, 124.	8.2	130
29	Genetics and genomics of Drosophila mating behavior. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6622-6629.	7.1	128
30	Quantitative genetic analyses of complex behaviours in Drosophila. Nature Reviews Genetics, 2004, 5, 838-849.	16.3	127
31	Genome-Wide Association Analysis of Oxidative Stress Resistance in Drosophila melanogaster. PLoS ONE, 2012, 7, e34745.	2.5	127
32	Deficiency Mapping of Quantitative Trait Loci Affecting Longevity in Drosophila melanogaster. Genetics, 2000, 156, 1129-1146.	2.9	126
33	The genetic architecture of odor-guided behavior in Drosophila: epistasis and the transcriptome. Nature Genetics, 2003, 35, 180-184.	21.4	125
34	The nature of quantittative genetic variation revisited: Lessons fromDrosophila bristles. BioEssays, 1996, 18, 113-121.	2.5	124
35	Quantitative Trait Loci for Inflorescence Development in Arabidopsis thaliana. Genetics, 2002, 160, 1133-1151.	2.9	124
36	Charting the genotypeâ€“phenotype map: lessons from the Drosophila melanogaster Genetic Reference Panel. Wiley Interdisciplinary Reviews: Developmental Biology, 2018, 7, e289.	5.9	121

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37	Genetic architecture of natural variation in cuticular hydrocarbon composition in Drosophila melanogaster. ELife, 2015, 4, .	6.0	121
38	Effects of Single P-Element Insertions on Olfactory Behavior in Drosophila melanogaster. Genetics, 1996, 143, 293-301.	2.9	119
39	Heterogeneous Selection at Specific Loci in Natural Environments in Arabidopsis thaliana. Genetics, 2003, 165, 321-329.	2.9	119
40	Quantitative Trait Loci Affecting Starvation Resistance in Drosophila melanogaster. Genetics, 2004, 166, 1807-1823.	2.9	115
41	Genetic architecture of natural variation in Drosophila melanogaster aggressive behavior. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3555-63.	7.1	115
42	Genetics of Aggression. Annual Review of Genetics, 2012, 46, 145-164.	7.6	113
43	Genotype-Environment Interaction at Quantitative Trait Loci Affecting Sensory Bristle Number in Drosophila melanogaster. Genetics, 1998, 149, 1883-1898.	2.9	110
44	The genetic basis of quantitative variation: numbers of sensory bristles of Drosophila melanogaster as a model system. Trends in Genetics, 1995, 11, 464-470.	6.7	107
45	Phenotypic Plasticity of the Drosophila Transcriptome. PLoS Genetics, 2012, 8, e1002593.	3.5	107
46	Longevity GWAS Using theDrosophilaGenetic Reference Panel. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 1470-1478.	3.6	105
47	THE CONTRIBUTION OF NEW MUTATIONS TO GENOTYPEâ€ENVIRONMENT INTERACTION FOR FITNESS IN DROSOPHILA MELANOGASTER. Evolution; International Journal of Organic Evolution, 1996, 50, 2316-2327.	2.3	103
48	Genomic Variation and Its Impact on Gene Expression in Drosophila melanogaster. PLoS Genetics, 2012, 8, e1003055.	3.5	102
49	The Genetic Architecture of Natural Variation in Recombination Rate in Drosophila melanogaster. PLoS Genetics, 2016, 12, e1005951.	3.5	102
50	High-Resolution Mapping of Quantitative Trait Loci for Sternopleural Bristle Number in Drosophila melanogaster. Genetics, 1999, 152, 1585-1604.	2.9	102
51	Both Naturally Occurring Insertions of Transposable Elements and Intermediate Frequency Polymorphisms at the achaete-scute Complex Are Associated With Variation in Bristle Number in Drosophila melanogaster. Genetics, 2000, 154, 1255-1269.	2.9	99
52	Genomic Prediction for Quantitative Traits Is Improved by Mapping Variants to Gene Ontology Categories inDrosophila melanogaster. Genetics, 2016, 203, 1871-1883.	2.9	96
53	Quantitative Trait Loci for Floral Morphology in Arabidopsis thaliana. Genetics, 2000, 156, 1379-1392.	2.9	96
54	Analysis of natural variation reveals neurogenetic networks for Drosophila olfactory behavior. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1017-1022.	7.1	95

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55	Quantitative genomics of starvation stress resistance in Drosophila. Genome Biology, 2005, 6, R36.	9.6	94
56	Phenotypic Variation and Natural Selection at Catsup, a Pleiotropic Quantitative Trait Gene in Drosophila. Current Biology, 2006, 16, 912-919.	3.9	92
57	Co-regulated transcriptional networks contribute to natural genetic variation in Drosophila sleep. Nature Genetics, 2009, 41, 371-375.	21.4	91
58	Transcriptional response to alcohol exposure in Drosophila melanogaster. Genome Biology, 2006, 7, R95.	9.6	90
59	Genetic Architecture of Abdominal Pigmentation in Drosophila melanogaster. PLoS Genetics, 2015, 11, e1005163.	3.5	89
60	TRANSPOSABLE ELEMENT-INDUCED RESPONSE TO ARTIFICIAL SELECTION IN DROSOPHILA MELANOGASTER. Genetics, 1985, 111, 351-374.	2.9	89
61	The Genetic Architecture of Drosophila Sensory Bristle Number. Genetics, 2002, 162, 1655-1674.	2.9	89
62	Mutations and quantitative genetic variation: lessons fromDrosophila. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 1229-1239.	4.0	87
63	Polygenic Mutation in Drosophila melanogaster: Genetic Interactions Between Selection Lines and Candidate Quantitative Trait Loci. Genetics, 1996, 144, 671-688.	2.9	86
64	Mutations in many genes affect aggressive behavior in Drosophila melanogaster. BMC Biology, 2009, 7, 29.	3.8	85
65	Systems genetics analysis of body weight and energy metabolism traits in Drosophila melanogaster. BMC Genomics, 2010, 11, 297.	2.8	84
66	Quantitative and Molecular Genetic Analyses of Mutations Increasing Drosophila Life Span. PLoS Genetics, 2010, 6, e1001037.	3.5	84
67	Quantitative Genetics of Food Intake in Drosophila melanogaster. PLoS ONE, 2015, 10, e0138129.	2.5	84
68	Neurogenetic networks for startle-induced locomotion in Drosophila melanogaster. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12393-12398.	7.1	82
69	Genome-Wide Association for Sensitivity to Chronic Oxidative Stress in Drosophila melanogaster. PLoS ONE, 2012, 7, e38722.	2.5	82
70	Direct determination of retrotransposon transposition rates inDrosophila melanogaster. Genetical Research, 1994, 63, 139-144.	0.9	81
71	Of Flies and Man:Drosophilaas a Model for Human Complex Traits. Annual Review of Genomics and Human Genetics, 2006, 7, 339-367.	6.2	80
72	Dynamic Genetic Interactions Determine Odor-Guided Behavior in Drosophila melanogaster. Genetics, 2006, 174, 1349-1363.	2.9	79

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73	Genetic mapping uncovers cis-regulatory landscape of RNA editing. Nature Communications, 2015, 6, 8194.	12.8	76
74	QTL mapping of genotypeâ€“environment interaction for fitness in Drosophila melanogaster. Genetical Research, 1998, 71, 133-141.	0.9	73
75	A quantitative genetic analysis of fitness and its components in Drosophila melanogaster. Genetical Research, 1986, 47, 59-70.	0.9	72
76	Phenotypic and transcriptional response to selection for alcohol sensitivity in Drosophila melanogaster. Genome Biology, 2007, 8, R231.	9.6	72
77	Transposable element-induced fitness mutations in Drosophila melanogaster. Genetical Research, 1986, 48, 77-87.	0.9	71
78	The Genetic Basis for Variation in Olfactory Behavior in Drosophila melanogaster. Chemical Senses, 2015, 40, 233-243.	2.0	71
79	Epistatic Interactions Between smell-impaired Loci in Drosophila melanogaster. Genetics, 1998, 148, 1885-1891.	2.9	70
80	Quantitative genomics of locomotor behavior in Drosophila melanogaster. Genome Biology, 2007, 8, R172.	9.6	68
81	Complex genetic architecture of Drosophila aggressive behavior. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17070-17075.	7.1	68
82	The Complex Genetic Architecture of Drosophila Life Span. Experimental Aging Research, 2002, 28, 361-390.	1.2	66
83	The Quantitative Genetic Basis of Male Mating Behavior in Drosophila melanogaster. Genetics, 2004, 167, 1249-1263.	2.9	66
84	Quantitative Trait Loci for Locomotor Behavior in Drosophila melanogaster. Genetics, 2006, 174, 271-284.	2.9	66
85	The future of model organisms in human disease research. Nature Reviews Genetics, 2011, 12, 575-582.	16.3	66
86	Candidate Quantitative Trait Loci and Naturally Occurring Phenotypic Variation for Bristle Number in Drosophila melanogaster: The Delta-Hairless Gene Region. Genetics, 1998, 149, 983-998.	2.9	66
87	Quantitative Genetic Variation of Odor-Guided Behavior in a Natural Population of Drosophila melanogaster. Genetics, 1996, 144, 727-735.	2.9	65
88	Phenotypic Plasticity and Genotype by Environment Interaction for Olfactory Behavior inDrosophila melanogaster. Genetics, 2008, 179, 1079-1088.	2.9	64
89	Intrapopulation Genome Size Variation in D. melanogaster Reflects Life History Variation and Plasticity. PLoS Genetics, 2014, 10, e1004522.	3.5	64
90	Spontaneous mutations and the origin and maintenance of quantitative genetic variation. ELife, 2016, 5, .	6.0	63

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91	The Genetic Basis of Postzygotic Reproductive Isolation Between Drosophila santomea and D. yakuba Due to Hybrid Male Sterility. Genetics, 2006, 173, 225-233.	2.9	62
92	Linkage disequilibrium mapping of molecular polymorphisms at the scabrous locus associated with naturally occurring variation in bristle number in Drosophila melanogaster. Genetical Research, 1999, 74, 303-311.	0.9	61
93	Candidate genes affecting Drosophila life span identified by integrating microarray gene expression analysis and QTL mapping. Mechanisms of Ageing and Development, 2007, 128, 237-249.	4.6	61
94	Genetic Architecture of Micro-Environmental Plasticity in Drosophila melanogaster. Scientific Reports, 2015, 5, 9785.	3.3	59
95	Effect of genetic architecture on the prediction accuracy of quantitative traits in samples of unrelated individuals. Heredity, 2018, 120, 500-514.	2.6	59
96	hairy: A Quantitative Trait Locus for Drosophila Sensory Bristle Number. Genetics, 2002, 162, 155-164.	2.9	58
97	Natural Variation, Functional Pleiotropy and Transcriptional Contexts of Odorant Binding Protein Genes in Drosophila melanogaster. Genetics, 2010, 186, 1475-1485.	2.9	57
98	Genome-Wide Analysis Reveals Novel Regulators of Growth in Drosophila melanogaster. PLoS Genetics, 2016, 12, e1005616.	3.5	55
99	Gene expression networks in the Drosophila Genetic Reference Panel. Genome Research, 2020, 30, 485-496.	5.5	55
100	The Genetic Architecture of Selection Response: Inferences From Fine-Scale Mapping of Bristle Number Quantitative Trait Loci in Drosophila melanogaster. Genetics, 1999, 153, 1317-1331.	2.9	55
101	Vanaso Is a Candidate Quantitative Trait Gene for Drosophila Olfactory Behavior. Genetics, 2002, 162, 1321-1328.	2.9	55
102	Polymorphisms in early neurodevelopmental genes affect natural variation in alcohol sensitivity in adult drosophila. BMC Genomics, 2015, 16, 865.	2.8	54
103	A Drosophila model for toxicogenomics: Genetic variation in susceptibility to heavy metal exposure. PLoS Genetics, 2017, 13, e1006907.	3.5	54
104	A transcriptional network associated with natural variation in Drosophila aggressive behavior. Genome Biology, 2009, 10, R76.	9.6	53
105	Quantitative Trait Loci With Age-Specific Effects on Fecundity in Drosophila melanogaster. Genetics, 2006, 172, 1595-1605.	2.9	51
106	Q&A: Genetic Analysis of Quantitative Traits. Journal of Biology, 2009, 8, 23.	2.7	51
107	Quantitative trait loci affecting natural variation in Drosophila longevity. Mechanisms of Ageing and Development, 2004, 125, 179-189.	4.6	50
108	Accounting for Genetic Architecture Improves Sequence Based Genomic Prediction for a Drosophila Fitness Trait. PLoS ONE, 2015, 10, e0126880.	2.5	50

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109	The genetic basis of alcoholism: multiple phenotypes, many genes, complex networks. Genome Biology, 2012, 13, 239.	9.6	49
110	Jumping genes meet abdominal bristles: hybrid dysgenesis-induced quantitative variation inDrosophila melanogaster. Genetical Research, 1984, 44, 231-237.	0.9	48
111	Quantitative Trait Loci Affecting the Difference in Pigmentation Between Drosophila yakuba and D. santomea. Genetics, 2005, 171, 211-225.	2.9	48
112	The genetic basis of natural variation in mushroom body size in Drosophila melanogaster. Nature Communications, 2015, 6, 10115.	12.8	48
113	The Genetic Basis of Prezygotic Reproductive Isolation Between Drosophila santomea and D. yakuba Due to Mating Preference. Genetics, 2006, 173, 215-223.	2.9	47
114	Genetics and genomics of alcohol sensitivity. Molecular Genetics and Genomics, 2014, 289, 253-269.	2.1	47
115	Context-dependent genetic architecture of Drosophila life span. PLoS Biology, 2020, 18, e3000645.	5.6	47
116	Quantitative Genetics of Ovariole Number in Drosophila melanogaster. II. Mutational Variation and Genotype-Environment Interaction. Genetics, 1998, 148, 201-210.	2.9	47
117	POLYGENIC MUTATION INDROSOPHILA MELANOGASTER:ESTIMATES FROM DIVERGENCE AMONG INBRED STRAINS. Evolution; International Journal of Organic Evolution, 1992, 46, 300-316.	2.3	46
118	The Contribution of New Mutations to Genotype-Environment Interaction for Fitness in Drosophila melanogaster. Evolution; International Journal of Organic Evolution, 1996, 50, 2316.	2.3	46
119	Quantitative Trait Loci for Sexual Isolation Between Drosophila simulans and D. mauritiana. Genetics, 2004, 167, 1265-1274.	2.9	46
120	Genetic architecture of natural variation in visual senescence in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6620-E6629.	7.1	46
121	The DSC1 Channel, Encoded by the smi60E Locus, Contributes to Odor-Guided Behavior in Drosophila melanogaster. Genetics, 2002, 161, 1507-1516.	2.9	46
122	Alcohol Sensitivity in Drosophila: Translational Potential of Systems Genetics. Genetics, 2009, 183, 733-745.	2.9	45
123	Shuttle craft: a candidate quantitative trait gene for Drosophila lifespan. Aging Cell, 2004, 3, 297-307.	6.7	43
124	Association of Polymorphisms in Odorant-Binding Protein Genes With Variation in Olfactory Response to Benzaldehyde in Drosophila. Genetics, 2007, 177, 1655-1665.	2.9	43
125	The Genetic Basis for Variation in Sensitivity to Lead Toxicity in Drosophila melanogaster. Environmental Health Perspectives, 2016, 124, 1062-1070.	6.0	42
126	Rapid and Predictable Evolution of Admixed Populations Between TwoDrosophilaSpecies Pairs. Genetics, 2020, 214, 211-230.	2.9	42

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127	Genome-Wide Association Analysis of Tolerance to Methylmercury Toxicity in Drosophila Implicates Myogenic and Neuromuscular Developmental Pathways. PLoS ONE, 2014, 9, e110375.	2.5	42
128	Speed-mapping quantitative trait loci using microarrays. Nature Methods, 2007, 4, 839-841.	19.0	41
129	Overexpression of Myocilin in the Drosophila Eye Activates the Unfolded Protein Response: Implications for Glaucoma. PLoS ONE, 2009, 4, e4216.	2.5	41
130	Heritable Variation in Courtship Patterns in Drosophila melanogaster. G3: Genes, Genomes, Genetics, 2015, 5, 531-539.	1.8	41
131	The Genomic Basis of Postponed Senescence in Drosophila melanogaster. PLoS ONE, 2015, 10, e0138569.	2.5	40
132	Male mating success and fertility in Drosophila melanogaster. Genetical Research, 1985, 46, 279-285.	0.9	39
133	Transcriptional and epigenetic responses to mating and aging in Drosophila melanogaster. BMC Genomics, 2014, 15, 927.	2.8	38
134	Quantitative Trait Loci for Aggressive Behavior inDrosophila melanogaster. Genetics, 2009, 182, 889-897.	2.9	37
135	Epistatic interactions attenuate mutations affecting startle behaviour inDrosophila melanogaster. Genetical Research, 2009, 91, 373-382.	0.9	37
136	quemao, a Drosophila Bristle Locus, Encodes Geranylgeranyl Pyrophosphate Synthase. Genetics, 1998, 149, 1051-1061.	2.9	37
137	The genetic architecture of complex behaviors: lessons from Drosophila. Genetica, 2009, 136, 295-302.	1.1	36
138	QUANTITATIVE GENETICS OF OVARIOLE NUMBER INDROSOPHILA MELANOGASTER.I. SEGREGATING VARIATION AND FITNESS. Evolution; International Journal of Organic Evolution, 1997, 51, 1156-1163.	2.3	35
139	The nature of quantitative genetic variation for Drosophila longevity. Mechanisms of Ageing and Development, 2002, 123, 95-104.	4.6	35
140	No Evidence for an Association Between Common Nonsynonymous Polymorphisms in Delta and Bristle Number Variation in Natural and Laboratory Populations of Drosophila melanogaster. Genetics, 2004, 166, 291-306.	2.9	35
141	Natural Variation in Odorant Recognition Among Odorant-Binding Proteins in Drosophila melanogaster. Genetics, 2010, 184, 759-767.	2.9	35
142	Obp56hModulates Mating Behavior inDrosophila melanogaster. G3: Genes, Genomes, Genetics, 2016, 6, 3335-3342.	1.8	34
143	Epistasis for Quantitative Traits in Drosophila. Methods in Molecular Biology, 2015, 1253, 47-70.	0.9	34
144	Ainâ€™t misbehavinâ€™? Genotypeâ€“environment interactions and the genetics of behavior. Trends in Genetics, 2007, 23, 311-314.	6.7	33

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145	Quantitative Trait Loci Affecting Starvation Resistance in Drosophila melanogaster. Genetics, 2004, 166, 1807-1823.	2.9	33
146	Transposable element-induced polygenic mutations inDrosophila melanogaster. Genetical Research, 1987, 49, 225-233.	0.9	32
147	Pleiotropic Effects of Drosophila neuralized on Complex Behaviors and Brain Structure. Genetics, 2008, 179, 1327-1336.	2.9	32
148	The genetic architecture of odor-guided behavior in Drosophila melanogaster. , 2001, 31, 17-27.		31
149	Heterosis for Viability, Fecundity, and Male Fertility in Drosophila melanogaster: Comparison of Mutational and Standing Variation. Genetics, 1998, 148, 1171-1188.	2.9	31
150	High-Resolution Mapping of Quantitative Trait Loci Affecting Increased Life Span in Drosophila melanogaster. Genetics, 2006, 173, 1455-1463.	2.9	30
151	Genotype by environment interaction for gene expression in Drosophila melanogaster. Nature Communications, 2020, 11, 5451.	12.8	30
152	Functional genome annotation ofDrosophilaseminal fluid proteins using transcriptional genetic networks. Genetical Research, 2011, 93, 387-395.	0.9	29
153	Pleiotropic fitness effects of the Tre1-Gr5a region in Drosophila melanogaster. Nature Genetics, 2006, 38, 824-829.	21.4	27
154	Transcriptional Networks for Alcohol Sensitivity in Drosophila melanogaster. Genetics, 2011, 187, 1193-1205.	2.9	27
155	Artificial selection on chill-coma recovery time in Drosophila melanogaster: Direct and correlated responses to selection. Journal of Thermal Biology, 2016, 59, 77-85.	2.5	27
156	Scribble Is Essential for Olfactory Behavior in Drosophila melanogaster. Genetics, 2003, 164, 1447-1457.	2.9	27
157	GENETIC VARIANCE, FITNESS, AND HOMEOSTASIS IN VARYING ENVIRONMENTS: AN EXPERIMENTAL CHECK OF THE THEORY. Evolution; International Journal of Organic Evolution, 1980, 34, 1219-1222.	2.3	27
158	Complementing complexity. Nature Genetics, 2004, 36, 1145-1147.	21.4	26
159	Extensive epistasis for olfactory behaviour, sleep and waking activity inDrosophila melanogaster. Genetical Research, 2012, 94, 9-20.	0.9	26
160	The road less traveled: from genotype to phenotype in flies and humans. Mammalian Genome, 2018, 29, 5-23.	2.2	26
161	Genome-Wide Association Study of Circadian Behavior in Drosophila melanogaster. Behavior Genetics, 2019, 49, 60-82.	2.1	26
162	Polygenic Mutation in Drosophila melanogaster: Estimates from Divergence among Inbred Strains. Evolution; International Journal of Organic Evolution, 1992, 46, 300.	2.3	25

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163	The Drosophila brain on cocaine at single-cell resolution. Genome Research, 2021, 31, 1927-1937.	5.5	23
164	Transcription Profiling in Drosophila Eyes That Overexpress the Human Glaucoma-Associated Trabecular Meshwork-Inducible Glucocorticoid Response Protein/Myocilin (TIGR/MYOC). Genetics, 2003, 163, 637-645.	2.9	23
165	Pinocchio, a novel protein expressed in the antenna, contributes to olfactory behavior in Drosophila melanogaster. Journal of Neurobiology, 2005, 63, 146-158.	3.6	22
166	Genomic Analysis of Genotype-by-Social Environment Interaction for Drosophila melanogaster Aggressive Behavior. Genetics, 2017, 206, 1969-1984.	2.9	21
167	Genetics of cocaine and methamphetamine consumption and preference in Drosophila melanogaster. PLoS Genetics, 2019, 15, e1007834.	3.5	21
168	Leveraging Multiple Layers of Data To Predict Drosophila Complex Traits. G3: Genes, Genomes, Genetics, 2020, 10, 4599-4613.	1.8	21
169	Genetic and Genomic Response to Selection for Food Consumption in Drosophila melanogaster. Behavior Genetics, 2017, 47, 227-243.	2.1	20
170	A-maize-ing Diversity. Science, 2009, 325, 688-689.	12.6	19
171	Nuclear genomic control of naturally occurring variation in mitochondrial function in Drosophila melanogaster. BMC Genomics, 2012, 13, 659.	2.8	19
172	Genetic Control of Environmental Variation of Two Quantitative Traits of Drosophila melanogaster Revealed by Whole-Genome Sequencing. Genetics, 2015, 201, 487-497.	2.9	19
173	Genetic and Molecular Analysis of smooth, a Quantitative Trait Locus Affecting Bristle Number in Drosophila melanogaster. Genetics, 1997, 146, 607-618.	2.9	19
174	The Effects of Royal Jelly on Fitness Traits and Gene Expression in Drosophila melanogaster. PLoS ONE, 2015, 10, e0134612.	2.5	19
175	The Early Developmental Gene Semaphorin 5c Contributes to Olfactory Behavior in Adult Drosophila. Genetics, 2007, 176, 947-956.	2.9	18
176	Systems genetics of the Drosophila metabolome. Genome Research, 2020, 30, 392-405.	5.5	18
177	Mapping and characterization ofP-element-induced mutations at quantitative trait loci inDrosophila melanogaster. Genetical Research, 1993, 61, 177-193.	0.9	17
178	Genetics and Brain Transcriptomics of Completed Suicide. American Journal of Psychiatry, 2022, 179, 226-241.	7.2	17
179	Polygenic Mutation in Drosophila melanogaster. Genetics, 2005, 170, 1723-1735.	2.9	16
180	Association of single-nucleotide polymorphisms at the Delta locus with genotype by environment interaction for sensory bristle number in Drosophila melanogaster. Genetical Research, 2002, 79, 211-218.	0.9	14

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181	Functional Validation of Candidate Genes Detected by Genomic Feature Models. G3: Genes, Genomes, Genetics, 2018, 8, 1659-1668.	1.8	14
182	ACyclin ECentered Genetic Network Contributes to Alcohol-Induced Variation in Drosophila Development. G3: Genes, Genomes, Genetics, 2018, 8, 2643-2653.	1.8	14
183	Lisinopril Preserves Physical Resilience and Extends Life Span in a Genotype-Specific Manner in Drosophila melanogaster. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2019, 74, 1844-1852.	3.6	14
184	Genetic basis of natural variation in body pigmentation inDrosophila melanogaster. Fly, 2015, 9, 75-81.	1.7	13
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