

Trudy F C Mackay

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215
papers

20,898
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259
ext. papers

24,353
ext. citations

7.8
avg, IF

6.96
L-index

#	Paper	IF	Citations
215	Finding the missing heritability of complex diseases. <i>Nature</i> , 2009 , 461, 747-53	50.4	6084
214	The <i>Drosophila melanogaster</i> Genetic Reference Panel. <i>Nature</i> , 2012 , 482, 173-8	50.4	1274
213	The genetics of quantitative traits: challenges and prospects. <i>Nature Reviews Genetics</i> , 2009 , 10, 565-77	30.1	833
212	The genetic architecture of quantitative traits. <i>Annual Review of Genetics</i> , 2001 , 35, 303-39	14.5	820
211	Epistasis and quantitative traits: using model organisms to study gene-gene interactions. <i>Nature Reviews Genetics</i> , 2014 , 15, 22-33	30.1	488
210	Systems genetics of complex traits in <i>Drosophila melanogaster</i> . <i>Nature Genetics</i> , 2009 , 41, 299-307	36.3	400
209	Natural variation in genome architecture among 205 <i>Drosophila melanogaster</i> Genetic Reference Panel lines. <i>Genome Research</i> , 2014 , 24, 1193-208	9.7	372
208	Genetic architecture of quantitative traits in mice, flies, and humans. <i>Genome Research</i> , 2009 , 19, 723-33	9.7	321
207	Quantitative trait loci in <i>Drosophila</i> . <i>Nature Reviews Genetics</i> , 2001 , 2, 11-20	30.1	315
206	Genotype-environment interaction for quantitative trait loci affecting life span in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2000 , 154, 213-27	4	266
205	Epistasis dominates the genetic architecture of <i>Drosophila</i> quantitative traits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15553-9	11.5	264
204	Low mutation rates of microsatellite loci in <i>Drosophila melanogaster</i> . <i>Nature Genetics</i> , 1997 , 15, 99-102	36.3	201
203	Quantitative trait loci for life span in <i>Drosophila melanogaster</i> : interactions with genetic background and larval density. <i>Genetics</i> , 2000 , 155, 1773-88	4	179
202	The genetic architecture of quantitative traits: lessons from <i>Drosophila</i> . <i>Current Opinion in Genetics and Development</i> , 2004 , 14, 253-7	4.9	170
201	Dopa decarboxylase (Ddc) affects variation in <i>Drosophila</i> longevity. <i>Nature Genetics</i> , 2003 , 34, 429-33	36.3	162
200	Two sites in the Delta gene region contribute to naturally occurring variation in bristle number in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1998 , 149, 999-1017	4	152
199	Using whole-genome sequence data to predict quantitative trait phenotypes in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2012 , 8, e1002685	6	144

198	Quantitative genomics of aggressive behavior in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2006 , 2, e154 6		141
197	Molecular and phenotypic variation in the achaete-scute region of <i>Drosophila melanogaster</i> . <i>Nature</i> , 1990 , 348, 64-6	50.4	139
196	Novel loci control variation in reproductive timing in <i>Arabidopsis thaliana</i> in natural environments. <i>Genetics</i> , 2002 , 162, 1875-84	4	134
195	Genotype-environment interactions at quantitative trait loci affecting inflorescence development in <i>Arabidopsis thaliana</i> . <i>Genetics</i> , 2003 , 165, 353-65	4	126
194	Genetic interactions between naturally occurring alleles at quantitative trait loci and mutant alleles at candidate loci affecting bristle number in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1996 , 144, 1497-510	4	117
193	Quantitative genetic analyses of complex behaviours in <i>Drosophila</i> . <i>Nature Reviews Genetics</i> , 2004 , 5, 838-49	30.1	116
192	Effects of single P-element insertions on bristle number and viability in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1996 , 143, 277-92	4	116
191	The genetic architecture of odor-guided behavior in <i>Drosophila</i> : epistasis and the transcriptome. <i>Nature Genetics</i> , 2003 , 35, 180-4	36.3	113
190	<i>Drosophila</i> bristles and the nature of quantitative genetic variation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005 , 360, 1513-27	5.8	110
189	Genetics and genomics of <i>Drosophila</i> mating behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102 Suppl 1, 6622-9	11.5	109
188	Deficiency mapping of quantitative trait loci affecting longevity in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2000 , 156, 1129-46	4	107
187	Heterogeneous selection at specific loci in natural environments in <i>Arabidopsis thaliana</i> . <i>Genetics</i> , 2003 , 165, 321-9	4	105
186	Quantitative trait loci affecting starvation resistance in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2004 , 166, 1807-23	4	103
185	The nature of quantitative genetic variation revisited: lessons from <i>Drosophila</i> bristles. <i>BioEssays</i> , 1996 , 18, 113-21	4.1	103
184	Quantitative trait loci for inflorescence development in <i>Arabidopsis thaliana</i> . <i>Genetics</i> , 2002 , 160, 1133-51		102
183	Effects of single P-element insertions on olfactory behavior in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1996 , 143, 293-301	4	99
182	The Genetic Architecture of Quantitative Traits Cannot Be Inferred from Variance Component Analysis. <i>PLoS Genetics</i> , 2016 , 12, e1006421	6	99
181	THE CONTRIBUTION OF NEW MUTATIONS TO GENOTYPE-ENVIRONMENT INTERACTION FOR FITNESS IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1996 , 50, 2316-2327	3.8	97

180	The genetic basis of quantitative variation: numbers of sensory bristles of <i>Drosophila melanogaster</i> as a model system. <i>Trends in Genetics</i> , 1995 , 11, 464-70	8.5	92
179	Genome-wide association study of sleep in <i>Drosophila melanogaster</i> . <i>BMC Genomics</i> , 2013 , 14, 281	4.5	91
178	Genome-wide association analysis of oxidative stress resistance in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2012 , 7, e34745	3.7	90
177	Genotype-environment interaction at quantitative trait loci affecting sensory bristle number in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1998 , 149, 1883-98	4	89
176	Why epistasis is important for tackling complex human disease genetics. <i>Genome Medicine</i> , 2014 , 6, 124	14.4	86
175	Genomic variation and its impact on gene expression in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2012 , 8, e1003055	6	85
174	Quantitative genomics of starvation stress resistance in <i>Drosophila</i> . <i>Genome Biology</i> , 2005 , 6, R36	18.3	85
173	Quantitative trait loci for floral morphology in <i>Arabidopsis thaliana</i> . <i>Genetics</i> , 2000 , 156, 1379-92	4	85
172	Both naturally occurring insertions of transposable elements and intermediate frequency polymorphisms at the achaete-scute complex are associated with variation in bristle number in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2000 , 154, 1255-69	4	83
171	Genetic basis of transcriptome diversity in <i>Drosophila melanogaster</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E6010-9	11.5	82
170	Phenotypic variation and natural selection at catsup, a pleiotropic quantitative trait gene in <i>Drosophila</i> . <i>Current Biology</i> , 2006 , 16, 912-9	6.3	82
169	High-resolution mapping of quantitative trait loci for sternopleural bristle number in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1999 , 152, 1585-604	4	82
168	Genetic architecture of natural variation in <i>Drosophila melanogaster</i> aggressive behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E3555-63	11.5	81
167	Co-regulated transcriptional networks contribute to natural genetic variation in <i>Drosophila</i> sleep. <i>Nature Genetics</i> , 2009 , 41, 371-5	36.3	81
166	Transcriptional response to alcohol exposure in <i>Drosophila melanogaster</i> . <i>Genome Biology</i> , 2006 , 7, R95	18.3	81
165	The genetic architecture of <i>Drosophila</i> sensory bristle number. <i>Genetics</i> , 2002 , 162, 1655-74	4	81
164	Analysis of natural variation reveals neurogenetic networks for <i>Drosophila</i> olfactory behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 1017-22	11.5	76
163	Genetics of aggression. <i>Annual Review of Genetics</i> , 2012 , 46, 145-64	14.5	74

162	Mutations in many genes affect aggressive behavior in <i>Drosophila melanogaster</i> . <i>BMC Biology</i> , 2009 , 7, 29	7.3	74
161	Phenotypic plasticity of the <i>Drosophila</i> transcriptome. <i>PLoS Genetics</i> , 2012 , 8, e1002593	6	72
160	Dynamic genetic interactions determine odor-guided behavior in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2006 , 174, 1349-63	4	72
159	Mutations and quantitative genetic variation: lessons from <i>Drosophila</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010 , 365, 1229-39	5.8	71
158	Of flies and man: <i>Drosophila</i> as a model for human complex traits. <i>Annual Review of Genomics and Human Genetics</i> , 2006 , 7, 339-67	9.7	71
157	Longevity GWAS Using the <i>Drosophila</i> Genetic Reference Panel. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015 , 70, 1470-8	6.4	69
156	Transposable element-induced response to artificial selection in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1985 , 111, 351-74	4	69
155	Quantitative and molecular genetic analyses of mutations increasing <i>Drosophila</i> life span. <i>PLoS Genetics</i> , 2010 , 6, e1001037	6	67
154	Genomic Prediction for Quantitative Traits Is Improved by Mapping Variants to Gene Ontology Categories in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2016 , 203, 1871-83	4	67
153	Direct determination of retrotransposon transposition rates in <i>Drosophila melanogaster</i> . <i>Genetical Research</i> , 1994 , 63, 139-44	1.1	66
152	The Genetic Architecture of Natural Variation in Recombination Rate in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2016 , 12, e1005951	6	66
151	Genetic architecture of natural variation in cuticular hydrocarbon composition in <i>Drosophila melanogaster</i> . <i>ELife</i> , 2015 , 4,	8.9	65
150	Systems genetics analysis of body weight and energy metabolism traits in <i>Drosophila melanogaster</i> . <i>BMC Genomics</i> , 2010 , 11, 297	4.5	64
149	Transposable element-induced fitness mutations in <i>Drosophila melanogaster</i> . <i>Genetical Research</i> , 1986 , 48, 77-87	1.1	64
148	Phenotypic and transcriptional response to selection for alcohol sensitivity in <i>Drosophila melanogaster</i> . <i>Genome Biology</i> , 2007 , 8, R231	18.3	63
147	The complex genetic architecture of <i>Drosophila</i> life span. <i>Experimental Aging Research</i> , 2002 , 28, 361-90	1.7	63
146	QTL mapping of genotype-environment interaction for fitness in <i>Drosophila melanogaster</i> . <i>Genetical Research</i> , 1998 , 71, 133-41	1.1	63
145	Polygenic mutation in <i>Drosophila melanogaster</i> : genetic interactions between selection lines and candidate quantitative trait loci. <i>Genetics</i> , 1996 , 144, 671-88	4	62

144	Epistatic interactions between smell-impaired loci in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1998 , 148, 1885-91	4.91	62
143	Genome-wide association for sensitivity to chronic oxidative stress in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2012 , 7, e38722	3.7	61
142	Quantitative genomics of locomotor behavior in <i>Drosophila melanogaster</i> . <i>Genome Biology</i> , 2007 , 8, R172	18.3	61
141	Charting the genotype-phenotype map: lessons from the <i>Drosophila melanogaster</i> Genetic Reference Panel. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2018 , 7, e289	5.9	59
140	Neurogenetic networks for startle-induced locomotion in <i>Drosophila melanogaster</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 12393-8	11.5	59
139	The quantitative genetic basis of male mating behavior in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2004 , 167, 1249-63	4	59
138	Complex genetic architecture of <i>Drosophila</i> aggressive behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17070-5	11.5	58
137	Quantitative trait loci for locomotor behavior in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2006 , 174, 271-84	4	58
136	A quantitative genetic analysis of fitness and its components in <i>Drosophila melanogaster</i> . <i>Genetical Research</i> , 1986 , 47, 59-70	1.1	58
135	Candidate genes affecting <i>Drosophila</i> life span identified by integrating microarray gene expression analysis and QTL mapping. <i>Mechanisms of Ageing and Development</i> , 2007 , 128, 237-49	5.6	57
134	The genetic basis of postzygotic reproductive isolation between <i>Drosophila santomea</i> and <i>D. yakuba</i> due to hybrid male sterility. <i>Genetics</i> , 2006 , 173, 225-33	4	57
133	Genetic Architecture of Abdominal Pigmentation in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2015 , 11, e1005163	6	56
132	The genetic basis for variation in olfactory behavior in <i>Drosophila melanogaster</i> . <i>Chemical Senses</i> , 2015 , 40, 233-43	4.8	55
131	Linkage disequilibrium mapping of molecular polymorphisms at the scabrous locus associated with naturally occurring variation in bristle number in <i>Drosophila melanogaster</i> . <i>Genetical Research</i> , 1999 , 74, 303-11	1.1	55
130	Quantitative Genetics of Food Intake in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2015 , 10, e0138129	3.7	53
129	Candidate quantitative trait loci and naturally occurring phenotypic variation for bristle number in <i>Drosophila melanogaster</i> : the Delta-Hairless gene region. <i>Genetics</i> , 1998 , 149, 983-98	4	53
128	Phenotypic plasticity and genotype by environment interaction for olfactory behavior in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2008 , 179, 1079-88	4	52
127	Quantitative genetic variation of odor-guided behavior in a natural population of <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1996 , 144, 727-35	4	50

126	Vanaso is a candidate quantitative trait gene for Drosophila olfactory behavior. <i>Genetics</i> , 2002 , 162, 1321-8	1.8	50
125	The future of model organisms in human disease research. <i>Nature Reviews Genetics</i> , 2011 , 12, 575-82	30.1	49
124	hairy: A quantitative trait locus for drosophila sensory bristle number. <i>Genetics</i> , 2002 , 162, 155-64	4	49
123	Genetic mapping uncovers cis-regulatory landscape of RNA editing. <i>Nature Communications</i> , 2015 , 6, 8194	17.4	48
122	Natural variation, functional pleiotropy and transcriptional contexts of odorant binding protein genes in Drosophila melanogaster. <i>Genetics</i> , 2010 , 186, 1475-85	4	48
121	A transcriptional network associated with natural variation in Drosophila aggressive behavior. <i>Genome Biology</i> , 2009 , 10, R76	18.3	48
120	Intrapopulation genome size variation in D. melanogaster reflects life history variation and plasticity. <i>PLoS Genetics</i> , 2014 , 10, e1004522	6	47
119	Quantitative trait loci affecting natural variation in Drosophila longevity. <i>Mechanisms of Ageing and Development</i> , 2004 , 125, 179-89	5.6	47
118	The Contribution of New Mutations to Genotype-Environment Interaction for Fitness in Drosophila melanogaster. <i>Evolution; International Journal of Organic Evolution</i> , 1996 , 50, 2316	3.8	44
117	Quantitative trait loci with age-specific effects on fecundity in Drosophila melanogaster. <i>Genetics</i> , 2006 , 172, 1595-605	4	43
116	The genetic architecture of selection response. Inferences from fine-scale mapping of bristle number quantitative trait loci in Drosophila melanogaster. <i>Genetics</i> , 1999 , 153, 1317-31	4	43
115	Quantitative trait loci affecting the difference in pigmentation between Drosophila yakuba and D. santomea. <i>Genetics</i> , 2005 , 171, 211-25	4	42
114	Alcohol sensitivity in Drosophila: translational potential of systems genetics. <i>Genetics</i> , 2009 , 183, 733-45, 1S1-12S1	4	41
113	Association of polymorphisms in odorant-binding protein genes with variation in olfactory response to benzaldehyde in Drosophila. <i>Genetics</i> , 2007 , 177, 1655-65	4	41
112	POLYGENIC MUTATION IN DROSOPHILA MELANOGASTER: ESTIMATES FROM DIVERGENCE AMONG INBRED STRAINS. <i>Evolution; International Journal of Organic Evolution</i> , 1992 , 46, 300-316	3.8	41
111	Jumping genes meet abdominal bristles: hybrid dysgenesis-induced quantitative variation in Drosophila melanogaster. <i>Genetical Research</i> , 1984 , 44, 231-237	1.1	41
110	Quantitative genetics of ovariule number in Drosophila melanogaster. II. Mutational variation and genotype-environment interaction. <i>Genetics</i> , 1998 , 148, 201-10	4	40
109	The DSC1 channel, encoded by the smi60E locus, contributes to odor-guided behavior in Drosophila melanogaster. <i>Genetics</i> , 2002 , 161, 1507-16	4	40

108	The genetic basis of alcoholism: multiple phenotypes, many genes, complex networks. <i>Genome Biology</i> , 2012 , 13, 239	18.3	39
107	The genetic basis of prezygotic reproductive isolation between <i>Drosophila santomea</i> and <i>D. yakuba</i> due to mating preference. <i>Genetics</i> , 2006 , 173, 215-23	4	39
106	Shuttle craft: a candidate quantitative trait gene for <i>Drosophila</i> lifespan. <i>Aging Cell</i> , 2004 , 3, 297-307	9.9	39
105	Quantitative trait loci for sexual isolation between <i>Drosophila simulans</i> and <i>D. mauritiana</i> . <i>Genetics</i> , 2004 , 167, 1265-74	4	38
104	Male mating success and fertility in <i>Drosophila melanogaster</i> . <i>Genetical Research</i> , 1985 , 46, 279-285	1.1	38
103	Speed-mapping quantitative trait loci using microarrays. <i>Nature Methods</i> , 2007 , 4, 839-41	21.6	37
102	Genetics and genomics of alcohol sensitivity. <i>Molecular Genetics and Genomics</i> , 2014 , 289, 253-69	3.1	36
101	Overexpression of myocilin in the <i>Drosophila</i> eye activates the unfolded protein response: implications for glaucoma. <i>PLoS ONE</i> , 2009 , 4, e4216	3.7	36
100	Genetic Architecture of Micro-Environmental Plasticity in <i>Drosophila melanogaster</i> . <i>Scientific Reports</i> , 2015 , 5, 9785	4.9	35
99	Polymorphisms in early neurodevelopmental genes affect natural variation in alcohol sensitivity in adult <i>Drosophila</i> . <i>BMC Genomics</i> , 2015 , 16, 865	4.5	34
98	Accounting for genetic architecture improves sequence based genomic prediction for a <i>Drosophila</i> fitness trait. <i>PLoS ONE</i> , 2015 , 10, e0126880	3.7	34
97	Quantitative trait loci for aggressive behavior in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2009 , 182, 889-97	4	34
96	Q&A: Genetic analysis of quantitative traits. <i>Journal of Biology</i> , 2009 , 8, 23		33
95	QUANTITATIVE GENETICS OF OVARIOLE NUMBER IN <i>DROSOPHILA MELANOGASTER</i> . I. SEGREGATING VARIATION AND FITNESS. <i>Evolution; International Journal of Organic Evolution</i> , 1997 , 51, 1156-1163	3.8	33
94	Effect of genetic architecture on the prediction accuracy of quantitative traits in samples of unrelated individuals. <i>Heredity</i> , 2018 , 120, 500-514	3.6	32
93	Genetic architecture of natural variation in visual senescence in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E6620-E6629	11.5	32
92	Natural variation in odorant recognition among odorant-binding proteins in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2010 , 184, 759-67	4	32
91	Genome-Wide Analysis Reveals Novel Regulators of Growth in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2016 , 12, e1005616	6	32

90	Transcriptional and epigenetic responses to mating and aging in <i>Drosophila melanogaster</i> . <i>BMC Genomics</i> , 2014 , 15, 927	4.5	31
89	Epistatic interactions attenuate mutations affecting startle behaviour in <i>Drosophila melanogaster</i> . <i>Genetical Research</i> , 2009 , 91, 373-82	1.1	31
88	AinR misbehavinP? Genotype-environment interactions and the genetics of behavior. <i>Trends in Genetics</i> , 2007 , 23, 311-4	8.5	31
87	No evidence for an association between common nonsynonymous polymorphisms in delta and bristle number variation in natural and laboratory populations of <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2004 , 166, 291-306	4	31
86	The nature of quantitative genetic variation for <i>Drosophila</i> longevity. <i>Mechanisms of Ageing and Development</i> , 2002 , 123, 95-104	5.6	31
85	The genetic architecture of complex behaviors: lessons from <i>Drosophila</i> . <i>Genetica</i> , 2009 , 136, 295-302	1.5	30
84	Spontaneous mutations and the origin and maintenance of quantitative genetic variation. <i>ELife</i> , 2016 , 5,	8.9	30
83	A <i>Drosophila</i> model for toxicogenomics: Genetic variation in susceptibility to heavy metal exposure. <i>PLoS Genetics</i> , 2017 , 13, e1006907	6	29
82	Heritable variation in courtship patterns in <i>Drosophila melanogaster</i> . <i>G3: Genes, Genomes, Genetics</i> , 2015 , 5, 531-9	3.2	29
81	High-resolution mapping of quantitative trait loci affecting increased life span in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2006 , 173, 1455-63	4	29
80	The genetic architecture of odor-guided behavior in <i>Drosophila melanogaster</i> . <i>Behavior Genetics</i> , 2001 , 31, 17-27	3.2	29
79	The Genetic Basis for Variation in Sensitivity to Lead Toxicity in <i>Drosophila melanogaster</i> . <i>Environmental Health Perspectives</i> , 2016 , 124, 1062-70	8.4	28
78	Genome-wide association analysis of tolerance to methylmercury toxicity in <i>Drosophila</i> implicates myogenic and neuromuscular developmental pathways. <i>PLoS ONE</i> , 2014 , 9, e110375	3.7	27
77	The Genomic Basis of Postponed Senescence in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2015 , 10, e0138569	3.7	26
76	Pleiotropic fitness effects of the Tre1-Gr5a region in <i>Drosophila melanogaster</i> . <i>Nature Genetics</i> , 2006 , 38, 824-9	36.3	26
75	Transposable element-induced polygenic mutations in <i>Drosophila melanogaster</i> . <i>Genetical Research</i> , 1987 , 49, 225-233	1.1	26
74	Heterosis for viability, fecundity, and male fertility in <i>Drosophila melanogaster</i> : comparison of mutational and standing variation. <i>Genetics</i> , 1998 , 148, 1171-88	4	26
73	Pleiotropic effects of <i>Drosophila</i> neuralized on complex behaviors and brain structure. <i>Genetics</i> , 2008 , 179, 1327-36	4	25

72	quemao, a <i>Drosophila</i> bristle locus, encodes geranylgeranyl pyrophosphate synthase. <i>Genetics</i> , 1998 , 149, 1051-61	4	25
71	Functional genome annotation of <i>Drosophila</i> seminal fluid proteins using transcriptional genetic networks. <i>Genetical Research</i> , 2011 , 93, 387-95	1.1	24
70	Polygenic Mutation in <i>Drosophila melanogaster</i> : Estimates from Divergence among Inbred Strains. <i>Evolution; International Journal of Organic Evolution</i> , 1992 , 46, 300	3.8	24
69	The genetic basis of natural variation in mushroom body size in <i>Drosophila melanogaster</i> . <i>Nature Communications</i> , 2015 , 6, 10115	17.4	23
68	GENETIC VARIANCE, FITNESS, AND HOMEOSTASIS IN VARYING ENVIRONMENTS: AN EXPERIMENTAL CHECK OF THE THEORY. <i>Evolution; International Journal of Organic Evolution</i> , 1980 , 34, 1219-1222	3.8	23
67	Scribble is essential for olfactory behavior in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2003 , 164, 1447-57	4	23
66	Transcriptional networks for alcohol sensitivity in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2011 , 187, 1193-205		22
65	Extensive epistasis for olfactory behaviour, sleep and waking activity in <i>Drosophila melanogaster</i> . <i>Genetical Research</i> , 2012 , 94, 9-20	1.1	22
64	Pinocchio, a novel protein expressed in the antenna, contributes to olfactory behavior in <i>Drosophila melanogaster</i> . <i>Journal of Neurobiology</i> , 2005 , 63, 146-58		21
63	Transcription profiling in <i>Drosophila</i> eyes that overexpress the human glaucoma-associated trabecular meshwork-inducible glucocorticoid response protein/myocilin (TIGR/MYOC). <i>Genetics</i> , 2003 , 163, 637-45	4	21
62	Epistasis for quantitative traits in <i>Drosophila</i> . <i>Methods in Molecular Biology</i> , 2015 , 1253, 47-70	1.4	21
61	Rapid and Predictable Evolution of Admixed Populations Between Two Species Pairs. <i>Genetics</i> , 2020 , 214, 211-230	4	21
60	Artificial selection on chill-coma recovery time in <i>Drosophila melanogaster</i> : Direct and correlated responses to selection. <i>Journal of Thermal Biology</i> , 2016 , 59, 77-85	2.9	20
59	Genomic Analysis of Genotype-by-Social Environment Interaction for Aggressive Behavior. <i>Genetics</i> , 2017 , 206, 1969-1984	4	19
58	Gene expression networks in the Genetic Reference Panel. <i>Genome Research</i> , 2020 , 30, 485-496	9.7	19
57	Quantitative Trait Loci Affecting Starvation Resistance in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2004 , 166, 1807-1823	4	18
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