

Robert R H Anholt

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1051413/publications.pdf>

Version: 2024-02-01

93
papers

7,470
citations

71102

41
h-index

62596

80
g-index

101
all docs

101
docs citations

101
times ranked

7050
citing authors

#	ARTICLE	IF	CITATIONS
1	The <i>Drosophila melanogaster</i> Genetic Reference Panel. <i>Nature</i> , 2012, 482, 173-178.	27.8	1,756
2	Natural variation in genome architecture among 205 <i>Drosophila melanogaster</i> Genetic Reference Panel lines. <i>Genome Research</i> , 2014, 24, 1193-1208.	5.5	565
3	Systems genetics of complex traits in <i>Drosophila melanogaster</i> . <i>Nature Genetics</i> , 2009, 41, 299-307.	21.4	490
4	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, 15553-15559.	7.1	348
5	Functional dissection of Odorant binding protein genes in <i>Drosophila melanogaster</i> . <i>Genes, Brain and Behavior</i> , 2011, 10, 648-657.	2.2	205
6	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.	7.1	134
7	Quantitative genetic analyses of complex behaviours in <i>Drosophila</i> . <i>Nature Reviews Genetics</i> , 2004, 5, 838-849.	16.3	127
8	Genome-Wide Association Analysis of Oxidative Stress Resistance in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2012, 7, e34745.	2.5	127
9	The genetic architecture of odor-guided behavior in <i>Drosophila</i> : epistasis and the transcriptome. <i>Nature Genetics</i> , 2003, 35, 180-184.	21.4	125
10	Genetic architecture of natural variation in cuticular hydrocarbon composition in <i>Drosophila melanogaster</i> . <i>ELife</i> , 2015, 4, .	6.0	121
11	Effects of Single P-Element Insertions on Olfactory Behavior in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1996, 143, 293-301.	2.9	119
12	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.	7.1	115
13	Genetics of Aggression. <i>Annual Review of Genetics</i> , 2012, 46, 145-164.	7.6	113
14	Phenotypic Plasticity of the <i>Drosophila</i> Transcriptome. <i>PLoS Genetics</i> , 2012, 8, e1002593.	3.5	107
15	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, 1017-1022.	7.1	95
16	Plasticity of the Chemoreceptor Repertoire in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2009, 5, e1000681.	3.5	93
17	Transcriptional response to alcohol exposure in <i>Drosophila melanogaster</i> . <i>Genome Biology</i> , 2006, 7, R95.	9.6	90
18	Olfactomedin proteins: central players in development and disease. <i>Frontiers in Cell and Developmental Biology</i> , 2014, 2, 6.	3.7	84

#	ARTICLE	IF	CITATIONS
19	Neurogenetic networks for startle-induced locomotion in <i>Drosophila melanogaster</i> . Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12393-12398.	7.1	82
20	Genome-Wide Association for Sensitivity to Chronic Oxidative Stress in <i>Drosophila melanogaster</i> . PLoS ONE, 2012, 7, e38722.	2.5	82
21	Of Flies and Man: <i>Drosophila</i> as a Model for Human Complex Traits. Annual Review of Genomics and Human Genetics, 2006, 7, 339-367.	6.2	80
22	Dynamic Genetic Interactions Determine Odor-Guided Behavior in <i>Drosophila melanogaster</i> . Genetics, 2006, 174, 1349-1363.	2.9	79
23	Phenotypic and transcriptional response to selection for alcohol sensitivity in <i>Drosophila melanogaster</i> . Genome Biology, 2007, 8, R231.	9.6	72
24	The Genetic Basis for Variation in Olfactory Behavior in <i>Drosophila melanogaster</i> . Chemical Senses, 2015, 40, 233-243.	2.0	71
25	Modulation of Feeding Behavior by Odorant-Binding Proteins in <i>Drosophila melanogaster</i> . Chemical Senses, 2014, 39, 125-132.	2.0	70
26	Epistatic Interactions Between smell-impaired Loci in <i>Drosophila melanogaster</i> . Genetics, 1998, 148, 1885-1891.	2.9	70
27	A molecular mechanism for glaucoma: endoplasmic reticulum stress and the unfolded protein response. Trends in Molecular Medicine, 2013, 19, 586-593.	6.7	69
28	Complex genetic architecture of <i>Drosophila</i> aggressive behavior. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17070-17075.	7.1	68
29	Pheromone Regulated Production of Inositol-(1, 4, 5)-Trisphosphate in the Mammalian Vomeronasal Organ*. Endocrinology, 1997, 138, 3497-3504.	2.8	65
30	Quantitative Genetic Variation of Odor-Guided Behavior in a Natural Population of <i>Drosophila melanogaster</i> . Genetics, 1996, 144, 727-735.	2.9	65
31	Phenotypic Plasticity and Genotype by Environment Interaction for Olfactory Behavior in <i>Drosophila melanogaster</i> . Genetics, 2008, 179, 1079-1088.	2.9	64
32	Characterization and differential expression of a human gene family of olfactomedin-related proteins. Genetical Research, 2000, 76, 41-50.	0.9	59
33	Natural Variation, Functional Pleiotropy and Transcriptional Contexts of <i>Odorant Binding Protein</i> Genes in <i>Drosophila melanogaster</i> . Genetics, 2010, 186, 1475-1485.	2.9	57
34	Gene expression networks in the <i>Drosophila</i> Genetic Reference Panel. Genome Research, 2020, 30, 485-496.	5.5	55
35	<i>Vanaso</i> Is a Candidate Quantitative Trait Gene for <i>Drosophila</i> Olfactory Behavior. Genetics, 2002, 162, 1321-1328.	2.9	55
36	Polymorphisms in early neurodevelopmental genes affect natural variation in alcohol sensitivity in adult <i>Drosophila</i> . BMC Genomics, 2015, 16, 865.	2.8	54

#	ARTICLE	IF	CITATIONS
37	A <i>Drosophila</i> model for toxicogenomics: Genetic variation in susceptibility to heavy metal exposure. <i>PLoS Genetics</i> , 2017, 13, e1006907.	3.5	54
38	The genetic basis of alcoholism: multiple phenotypes, many genes, complex networks. <i>Genome Biology</i> , 2012, 13, 239.	9.6	49
39	Genetics and genomics of alcohol sensitivity. <i>Molecular Genetics and Genomics</i> , 2014, 289, 253-269.	2.1	47
40	Context-dependent genetic architecture of <i>Drosophila</i> life span. <i>PLoS Biology</i> , 2020, 18, e3000645.	5.6	47
41	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.	7.1	46
42	The <i>DSC1</i> Channel, Encoded by the <i>smi60E</i> Locus, Contributes to Odor-Guided Behavior in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2002, 161, 1507-1516.	2.9	46
43	Alcohol Sensitivity in <i>Drosophila</i> : Translational Potential of Systems Genetics. <i>Genetics</i> , 2009, 183, 733-745.	2.9	45
44	Association of Polymorphisms in Odorant-Binding Protein Genes With Variation in Olfactory Response to Benzaldehyde in <i>Drosophila</i> . <i>Genetics</i> , 2007, 177, 1655-1665.	2.9	43
45	Odorant Receptor Polymorphisms and Natural Variation in Olfactory Behavior in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2010, 186, 687-697.	2.9	42
46	The Genetic Basis for Variation in Sensitivity to Lead Toxicity in <i>Drosophila melanogaster</i> . <i>Environmental Health Perspectives</i> , 2016, 124, 1062-1070.	6.0	42
47	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.	2.5	42
48	Overexpression of Myocilin in the <i>Drosophila</i> Eye Activates the Unfolded Protein Response: Implications for Glaucoma. <i>PLoS ONE</i> , 2009, 4, e4216.	2.5	41
49	Genetic modules and networks for behavior: lessons from <i>Drosophila</i> . <i>BioEssays</i> , 2004, 26, 1299-1306.	2.5	40
50	Transcriptional and epigenetic responses to mating and aging in <i>Drosophila melanogaster</i> . <i>BMC Genomics</i> , 2014, 15, 927.	2.8	38
51	Epistatic interactions attenuate mutations affecting startle behaviour in <i>Drosophila melanogaster</i> . <i>Genetical Research</i> , 2009, 91, 373-382.	0.9	37
52	Natural Variation in Odorant Recognition Among Odorant-Binding Proteins in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2010, 184, 759-767.	2.9	35
53	Evolution of Reproductive Behavior. <i>Genetics</i> , 2020, 214, 49-73.	2.9	35
54	<i>Obp56h</i> Modulates Mating Behavior in <i>Drosophila melanogaster</i> . <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 3335-3342.	1.8	34

#	ARTICLE	IF	CITATIONS
55	The Soluble Proteome of the Drosophila Antenna. <i>Chemical Senses</i> , 2010, 35, 21-30.	2.0	33
56	Pleiotropic Effects of Drosophila <i>neuralized</i> on Complex Behaviors and Brain Structure. <i>Genetics</i> , 2008, 179, 1327-1336.	2.9	32
57	The genetic architecture of odor-guided behavior in <i>Drosophila melanogaster</i> . , 2001, 31, 17-27.		31
58	Genotype by environment interaction for gene expression in <i>Drosophila melanogaster</i> . <i>Nature Communications</i> , 2020, 11, 5451.	12.8	30
59	Olfactomedin-2 mediates development of the anterior central nervous system and head structures in zebrafish. <i>Mechanisms of Development</i> , 2008, 125, 167-181.	1.7	29
60	Pleiotropic fitness effects of the <i>Tre1-Gr5a</i> region in <i>Drosophila melanogaster</i> . <i>Nature Genetics</i> , 2006, 38, 824-829.	21.4	27
61	Transcriptional Networks for Alcohol Sensitivity in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2011, 187, 1193-1205.	2.9	27
62	Chemosensation and Evolution of <i>Drosophila</i> Host Plant Selection. <i>IScience</i> , 2020, 23, 100799.	4.1	27
63	<i>Scribble</i> Is Essential for Olfactory Behavior in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2003, 164, 1447-1457.	2.9	27
64	Extensive epistasis for olfactory behaviour, sleep and waking activity in <i>Drosophila melanogaster</i> . <i>Genetical Research</i> , 2012, 94, 9-20.	0.9	26
65	The road less traveled: from genotype to phenotype in flies and humans. <i>Mammalian Genome</i> , 2018, 29, 5-23.	2.2	26
66	Variation in genetic architecture of olfactory behaviour among wild-derived populations of <i>Drosophila melanogaster</i> . <i>Journal of Evolutionary Biology</i> , 2008, 21, 988-996.	1.7	25
67	Epistatic partners of neurogenic genes modulate <i>Drosophila</i> olfactory behavior. <i>Genes, Brain and Behavior</i> , 2016, 15, 280-290.	2.2	25
68	The <i>Drosophila</i> brain on cocaine at single-cell resolution. <i>Genome Research</i> , 2021, 31, 1927-1937.	5.5	23
69	Transcription Profiling in <i>Drosophila</i> Eyes That Overexpress the Human Glaucoma-Associated Trabecular Meshwork-Inducible Glucocorticoid Response Protein/Myocilin (<i>TIGR/MYOC</i>). <i>Genetics</i> , 2003, 163, 637-645.	2.9	23
70	Pinocchio, a novel protein expressed in the antenna, contributes to olfactory behavior in <i>Drosophila melanogaster</i> . <i>Journal of Neurobiology</i> , 2005, 63, 146-158.	3.6	22
71	Genetics of cocaine and methamphetamine consumption and preference in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2019, 15, e1007834.	3.5	21
72	The Early Developmental Gene <i>Semaphorin 5c</i> Contributes to Olfactory Behavior in Adult <i>Drosophila</i> . <i>Genetics</i> , 2007, 176, 947-956.	2.9	18

#	ARTICLE	IF	CITATIONS
73	Systems genetics of the <i>Drosophila</i> metabolome. <i>Genome Research</i> , 2020, 30, 392-405.	5.5	18
74	Genetics of alcohol consumption in <i>Drosophila melanogaster</i> . <i>Genes, Brain and Behavior</i> , 2017, 16, 675-685.	2.2	17
75	Evolution of Olfactomedin: Structural Constraints and Conservation of Primary Sequence Motifs. <i>Annals of the New York Academy of Sciences</i> , 1998, 855, 294-300.	3.8	16
76	Pheromone Regulated Production of Inositol-(1, 4, 5)-Trisphosphate in the Mammalian Vomeronasal Organ. <i>Endocrinology</i> , 1997, 138, 3497-3504.	2.8	16
77	Genes of the Unfolded Protein Response Pathway Harbor Risk Alleles for Primary Open Angle Glaucoma. <i>PLoS ONE</i> , 2011, 6, e20649.	2.5	15
78	A Cyclin E Centered Genetic Network Contributes to Alcohol-Induced Variation in <i>Drosophila</i> Development. <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 2643-2653.	1.8	14
79	Evolution of Epistatic Networks and the Genetic Basis of Innate Behaviors. <i>Trends in Genetics</i> , 2020, 36, 24-29.	6.7	13
80	Developmental Alcohol Exposure in <i>Drosophila</i> : Effects on Adult Phenotypes and Gene Expression in the Brain. <i>Frontiers in Psychiatry</i> , 2021, 12, 699033.	2.6	13
81	Genetic basis of variation in cocaine and methamphetamine consumption in outbred populations of <i>Drosophila melanogaster</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	12
82	Functional Diversification, Redundancy, and Epistasis among Paralogs of the <i>Drosophila melanogaster</i> Obp50a Gene Cluster. <i>Molecular Biology and Evolution</i> , 2021, 38, 2030-2044.	8.9	11
83	Physiological and metabolomic consequences of reduced expression of the <i>Drosophila</i> brummer triglyceride Lipase. <i>PLoS ONE</i> , 2021, 16, e0255198.	2.5	11
84	Ibrutinib as a potential therapeutic for cocaine use disorder. <i>Translational Psychiatry</i> , 2021, 11, 623.	4.8	7
85	Dissecting the genetic architecture of behavior in <i>Drosophila melanogaster</i> . <i>Current Opinion in Behavioral Sciences</i> , 2015, 2, 1-7.	3.9	6
86	Regulation of <i>Drosophila</i> Lifespan by bellwether Promoter Alleles. <i>Scientific Reports</i> , 2017, 7, 4109.	3.3	6
87	High-Throughput Method for Measuring Alcohol Sedation Time of Individual <i>Drosophila melanogaster</i> . <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	5
88	Modulation of the <i>Drosophila</i> transcriptome by developmental exposure to alcohol. <i>BMC Genomics</i> , 2022, 23, 347.	2.8	5
89	Making scents of behavioural genetics: lessons from <i>Drosophila</i> . <i>Genetical Research</i> , 2010, 92, 349-359.	0.9	4
90	Tuning the chemosensory window. <i>Fly</i> , 2010, 4, 230-235.	1.7	4

#	ARTICLE	IF	CITATIONS
91	Epistasis for head morphology in <i>Drosophila melanogaster</i> . <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	1.8	2
92	A High Throughput Microplate Feeder Assay for Quantification of Consumption in <i>Drosophila</i> . <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	1
93	Olfaction in <i>Drosophila</i> : from Receptors to Behavior. <i>Chemical Senses</i> , 2001, 26, 193-193.	2.0	0