Robert R H Anholt

List of Publications by Year
in descending order

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	Modulation of the Drosophila transcriptome by developmental exposure to alcohol. BMC Genomics, 2022, 23, 347.	2.8	5
2	Functional Diversification, Redundancy, and Epistasis among Paralogs of the Drosophila melanogaster Obp50aâ€“d Gene Cluster. Molecular Biology and Evolution, 2021, 38, 2030-2044.	8.9	11
3	The Drosophila brain on cocaine at single-cell resolution. Genome Research, 2021, 31, 1927-1937.	5.5	23
4	Genetic basis of variation in cocaine and methamphetamine consumption in outbred populations of Drosophila melanogaster. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	12
5	A High Throughput Microplate Feeder Assay for Quantification of Consumption in Drosophila. Journal of Visualized Experiments, 2021, , .	0.3	1
6	Developmental Alcohol Exposure in Drosophila: Effects on Adult Phenotypes and Gene Expression in the Brain. Frontiers in Psychiatry, 2021, 12, 699033.	2.6	13
7	Epistasis for head morphology in Drosophila melanogaster. G3: Genes, Genomes, Genetics, 2021, 11, .	1.8	2
8	Physiological and metabolomic consequences of reduced expression of the Drosophila brummer triglyceride Lipase. PLoS ONE, 2021, 16, e0255198.	2.5	11
9	Ibrutinib as a potential therapeutic for cocaine use disorder. Translational Psychiatry, 2021, 11, 623.	4.8	7
10	Evolution of Epistatic Networks and the Genetic Basis of Innate Behaviors. Trends in Genetics, 2020, 36, 24-29.	6.7	13
11	Systems genetics of the Drosophila metabolome. Genome Research, 2020, 30, 392-405.	5.5	18
12	Chemosensation and Evolution of Drosophila Host Plant Selection. IScience, 2020, 23, 100799.	4.1	27
13	Genotype by environment interaction for gene expression in Drosophila melanogaster. Nature Communications, 2020, 11, 5451.	12.8	30
14	Context-dependent genetic architecture of Drosophila life span. PLoS Biology, 2020, 18, e3000645.	5.6	47
15	Gene expression networks in the Drosophila Genetic Reference Panel. Genome Research, 2020, 30, 485-496.	5.5	55
16	Evolution of Reproductive Behavior. Genetics, 2020, 214, 49-73.	2.9	35
17	High-Throughput Method for Measuring Alcohol Sedation Time of Individual Drosophila melanogaster. Journal of Visualized Experiments, 2020, , .	0.3	5
18	Genetics of cocaine and methamphetamine consumption and preference in Drosophila melanogaster. PLoS Genetics, 2019, 15, e1007834.	3.5	21

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19	The road less traveled: from genotype to phenotype in flies and humans. Mammalian Genome, 2018, 29, 5-23.	2.2	26
20	ACyclin ECentered Genetic Network Contributes to Alcohol-Induced Variation in Drosophila Development. G3: Genes, Genomes, Genetics, 2018, 8, 2643-2653.	1.8	14
21	Genetics of alcohol consumption in Drosophila melanogaster. Genes, Brain and Behavior, 2017, 16, 675-685.	2.2	17
22	Regulation of Drosophila Lifespan by bellwether Promoter Alleles. Scientific Reports, 2017, 7, 4109.	3.3	6
23	A Drosophila model for toxicogenomics: Genetic variation in susceptibility to heavy metal exposure. PLoS Genetics, 2017, 13, e1006907.	3.5	54
24	The Genetic Basis for Variation in Sensitivity to Lead Toxicity in Drosophila melanogaster. Environmental Health Perspectives, 2016, 124, 1062-1070.	6.0	42
25	Obp56hModulates Mating Behavior inDrosophila melanogaster. G3: Genes, Genomes, Genetics, 2016, 6, 3335-3342.	1.8	34
26	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
27	Epistatic partners of neurogenic genes modulate Drosophila olfactory behavior. Genes, Brain and Behavior, 2016, 15, 280-290.	2.2	25
28	Polymorphisms in early neurodevelopmental genes affect natural variation in alcohol sensitivity in adult drosophila. BMC Genomics, 2015, 16, 865.	2.8	54
29	The Genetic Basis for Variation in Olfactory Behavior in Drosophila melanogaster. Chemical Senses, 2015, 40, 233-243.	2.0	71
30	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
31	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
32	Dissecting the genetic architecture of behavior in Drosophila melanogaster. Current Opinion in Behavioral Sciences, 2015, 2, 1-7.	3.9	6
33	Genetic architecture of natural variation in cuticular hydrocarbon composition in Drosophila melanogaster. ELife, 2015, 4, .	6.0	121
34	Olfactomedin proteins: central players in development and disease. Frontiers in Cell and Developmental Biology, 2014, 2, 6.	3.7	84
35	Transcriptional and epigenetic responses to mating and aging in Drosophila melanogaster. BMC Genomics, 2014, 15, 927.	2.8	38
36	Natural variation in genome architecture among 205 Drosophila melanogaster Genetic Reference Panel lines. Genome Research, 2014, 24, 1193-1208.	5.5	565

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37	Modulation of Feeding Behavior by Odorant-Binding Proteins in Drosophila melanogaster. Chemical Senses, 2014, 39, 125-132.	2.0	70
38	Genetics and genomics of alcohol sensitivity. Molecular Genetics and Genomics, 2014, 289, 253-269.	2.1	47
39	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
40	A molecular mechanism for glaucoma: endoplasmic reticulum stress and the unfolded protein response. Trends in Molecular Medicine, 2013, 19, 586-593.	6.7	69
41	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
42	Phenotypic Plasticity of the Drosophila Transcriptome. PLoS Genetics, 2012, 8, e1002593.	3.5	107
43	Extensive epistasis for olfactory behaviour, sleep and waking activity inDrosophila melanogaster. Genetical Research, 2012, 94, 9-20.	0.9	26
44	The Drosophila melanogaster Genetic Reference Panel. Nature, 2012, 482, 173-178.	27.8	1,756
45	The genetic basis of alcoholism: multiple phenotypes, many genes, complex networks. Genome Biology, 2012, 13, 239.	9.6	49
46	Genetics of Aggression. Annual Review of Genetics, 2012, 46, 145-164.	7.6	113
47	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
48	Genome-Wide Association for Sensitivity to Chronic Oxidative Stress in Drosophila melanogaster. PLoS ONE, 2012, 7, e38722.	2.5	82
49	Genome-Wide Association Analysis of Oxidative Stress Resistance in Drosophila melanogaster. PLoS ONE, 2012, 7, e34745.	2.5	127
50	Genes of the Unfolded Protein Response Pathway Harbor Risk Alleles for Primary Open Angle Glaucoma. PLoS ONE, 2011, 6, e20649.	2.5	15
51	Functional dissection of Odorant binding protein genes in Drosophila melanogaster. Genes, Brain and Behavior, 2011, 10, 648-657.	2.2	205
52	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
53	Transcriptional Networks for Alcohol Sensitivity in Drosophila melanogaster. Genetics, 2011, 187, 1193-1205.	2.9	27
54	Making scents of behavioural genetics: lessons fromDrosophila. Genetical Research, 2010, 92, 349-359.	0.9	4

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55	Odorant Receptor Polymorphisms and Natural Variation in Olfactory Behavior in Drosophila melanogaster. Genetics, 2010, 186, 687-697.	2.9	42
56	Natural Variation in Odorant Recognition Among Odorant-Binding Proteins in Drosophila melanogaster. Genetics, 2010, 184, 759-767.	2.9	35
57	The Soluble Proteome of the Drosophila Antenna. Chemical Senses, 2010, 35, 21-30.	2.0	33
58	Natural Variation, Functional Pleiotropy and Transcriptional Contexts of Odorant Binding Protein Genes in Drosophila melanogaster. Genetics, 2010, 186, 1475-1485.	2.9	57
59	Tuning the chemosensory window. Fly, 2010, 4, 230-235.	1.7	4
60	Overexpression of Myocilin in the Drosophila Eye Activates the Unfolded Protein Response: Implications for Glaucoma. PLoS ONE, 2009, 4, e4216.	2.5	41
61	Alcohol Sensitivity in Drosophila: Translational Potential of Systems Genetics. Genetics, 2009, 183, 733-745.	2.9	45
62	Plasticity of the Chemoreceptor Repertoire in Drosophila melanogaster. PLoS Genetics, 2009, 5, e1000681.	3.5	93
63	Epistatic interactions attenuate mutations affecting startle behaviour inDrosophila melanogaster. Genetical Research, 2009, 91, 373-382.	0.9	37
64	Systems genetics of complex traits in Drosophila melanogaster. Nature Genetics, 2009, 41, 299-307.	21.4	490
65	Variation in genetic architecture of olfactory behaviour among wildâ€derived populations of Drosophila melanogaster. Journal of Evolutionary Biology, 2008, 21, 988-996.	1.7	25
66	Olfactomedin-2 mediates development of the anterior central nervous system and head structures in zebrafish. Mechanisms of Development, 2008, 125, 167-181.	1.7	29
67	Phenotypic Plasticity and Genotype by Environment Interaction for Olfactory Behavior inDrosophila melanogaster. Genetics, 2008, 179, 1079-1088.	2.9	64
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	Pleiotropic Effects of Drosophila neuralized on Complex Behaviors and Brain Structure. Genetics, 2008, 179, 1327-1336.	2.9	32
70	The Early Developmental Gene Semaphorin 5c Contributes to Olfactory Behavior in Adult Drosophila. Genetics, 2007, 176, 947-956.	2.9	18
71	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
72	Phenotypic and transcriptional response to selection for alcohol sensitivity in Drosophila melanogaster. Genome Biology, 2007, 8, R231.	9.6	72

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73	Transcriptional response to alcohol exposure in Drosophila melanogaster. Genome Biology, 2006, 7, R95.	9.6	90
74	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
75	Pleiotropic fitness effects of the Tre1-Gr5a region in Drosophila melanogaster. Nature Genetics, 2006, 38, 824-829.	21.4	27
76	Dynamic Genetic Interactions Determine Odor-Guided Behavior in Drosophila melanogaster. Genetics, 2006, 174, 1349-1363.	2.9	79
77	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
78	Quantitative genetic analyses of complex behaviours in Drosophila. Nature Reviews Genetics, 2004, 5, 838-849.	16.3	127
79	Genetic modules and networks for behavior: lessons fromDrosophila. BioEssays, 2004, 26, 1299-1306.	2.5	40
80	The genetic architecture of odor-guided behavior in Drosophila: epistasis and the transcriptome. Nature Genetics, 2003, 35, 180-184.	21.4	125
81	Scribble Is Essential for Olfactory Behavior in Drosophila melanogaster. Genetics, 2003, 164, 1447-1457.	2.9	27
82	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
83	The DSC1 Channel, Encoded by the smi60E Locus, Contributes to Odor-Guided Behavior in Drosophila melanogaster. Genetics, 2002, 161, 1507-1516.	2.9	46
84	Vanaso Is a Candidate Quantitative Trait Gene for Drosophila Olfactory Behavior. Genetics, 2002, 162, 1321-1328.	2.9	55
85	The genetic architecture of odor-guided behavior in Drosophila melanogaster. , 2001, 31, 17-27.		31
86	Olfaction in Drosophila: from Receptors to Behavior. Chemical Senses, 2001, 26, 193-193.	2.0	0
87	Characterization and differential expression of a human gene family of olfactomedin-related proteins. Genetical Research, 2000, 76, 41-50.	0.9	59
88	Evolution of Olfactomedin: Structural Constraints and Conservation of Primary Sequence Motifs. Annals of the New York Academy of Sciences, 1998, 855, 294-300.	3.8	16
89	Epistatic Interactions Between smell-impaired Loci in Drosophila melanogaster. Genetics, 1998, 148, 1885-1891.	2.9	70
90	Pheromone Regulated Production of Inositol-(1, 4, 5)-Trisphosphate in the Mammalian Vomeronasal Organ*. Endocrinology, 1997, 138, 3497-3504.	2.8	65

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91	Pheromone Regulated Production of Inositol-(1, 4, 5)-Trisphosphate in the Mammalian Vomeronasal Organ. Endocrinology, 1997, 138, 3497-3504.	2.8	16
92	Effects of Single P-Element Insertions on Olfactory Behavior in Drosophila melanogaster. Genetics, 1996, 143, 293-301.	2.9	119
93	Quantitative Genetic Variation of Odor-Guided Behavior in a Natural Population of Drosophila melanogaster. Genetics, 1996, 144, 727-735.	2.9	65