Robert R H Anholt

List of Publications by Citations

91 papers	5,510 citations	38 h-index	73 g-index
101 ext. papers	6,826 ext. citations	7.6 avg, IF	5.56 L-index

#	Paper	IF	Citations
91	The Drosophila melanogaster Genetic Reference Panel. *Nature*, **2012**, 482, 173-8	50.4	1274
90	Systems genetics of complex traits in Drosophila melanogaster. *Nature Genetics*, **2009**, 41, 299-307	36.3	400
89	Natural variation in genome architecture among 205 Drosophila melanogaster Genetic Reference Panel lines. *Genome Research*, **2014**, 24, 1193-208	9.7	372
88	Epistasis dominates the genetic architecture of Drosophila quantitative traits. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 15553-9	11.5	264
87	Functional dissection of Odorant binding protein genes in Drosophila melanogaster. *Genes, Brain and Behavior*, **2011**, 10, 648-57	3.6	151
86	Quantitative genetic analyses of complex behaviours in Drosophila. *Nature Reviews Genetics*, **2004**, 5, 838-49	30.1	116
85	The genetic architecture of odor-guided behavior in Drosophila: epistasis and the transcriptome. *Nature Genetics*, **2003**, 35, 180-4	36.3	113
84	Effects of single P-element insertions on olfactory behavior in Drosophila melanogaster. *Genetics*, **1996**, 143, 293-301	4	99
83	Genome-wide association analysis of oxidative stress resistance in Drosophila melanogaster. *PLoS ONE*, **2012**, 7, e34745	3.7	90
82	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	11.5	82
81	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	11.5	81
80	Transcriptional response to alcohol exposure in Drosophila melanogaster. *Genome Biology*, **2006**, 7, R95	18.3	81
79	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, 1017-22	11.5	76
78	Genetics of aggression. *Annual Review of Genetics*, **2012**, 46, 145-64	14.5	74
77	Phenotypic plasticity of the Drosophila transcriptome. *PLoS Genetics*, **2012**, 8, e1002593	6	72
76	Dynamic genetic interactions determine odor-guided behavior in Drosophila melanogaster. *Genetics*, **2006**, 174, 1349-63	4	72
75	Plasticity of the chemoreceptor repertoire in Drosophila melanogaster. *PLoS Genetics*, **2009**, 5, e1000681	6	71

74	Of flies and man: Drosophila as a model for human complex traits. *Annual Review of Genomics and Human Genetics*, **2006**, 7, 339-67	9.7	71
73	Genetic architecture of natural variation in cuticular hydrocarbon composition in Drosophila melanogaster. *ELife*, **2015**, 4,	8.9	65
72	Phenotypic and transcriptional response to selection for alcohol sensitivity in Drosophila melanogaster. *Genome Biology*, **2007**, 8, R231	18.3	63
71	Epistatic interactions between smell-impaired loci in Drosophila melanogaster. *Genetics*, **1998**, 148, 1885-91	4	62
70	Olfactomedin proteins: central players in development and disease. *Frontiers in Cell and Developmental Biology*, **2014**, 2, 6	5.7	61
69	Genome-wide association for sensitivity to chronic oxidative stress in Drosophila melanogaster. *PLoS ONE*, **2012**, 7, e38722	3.7	61
68	Pheromone regulated production of inositol-(1, 4, 5)-trisphosphate in the mammalian vomeronasal organ. *Endocrinology*, **1997**, 138, 3497-504	4.8	59
67	Neurogenetic networks for startle-induced locomotion in Drosophila melanogaster. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 12393-8	11.5	59
66	Complex genetic architecture of Drosophila aggressive behavior. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 17070-5	11.5	58
65	A molecular mechanism for glaucoma: endoplasmic reticulum stress and the unfolded protein response. *Trends in Molecular Medicine*, **2013**, 19, 586-93	11.5	56
64	The genetic basis for variation in olfactory behavior in Drosophila melanogaster. *Chemical Senses*, **2015**, 40, 233-43	4.8	55
63	Phenotypic plasticity and genotype by environment interaction for olfactory behavior in Drosophila melanogaster. *Genetics*, **2008**, 179, 1079-88	4	52
62	Characterization and differential expression of a human gene family of olfactomedin-related proteins. *Genetical Research*, **2000**, 76, 41-50	1.1	51
61	Quantitative genetic variation of odor-guided behavior in a natural population of Drosophila melanogaster. *Genetics*, **1996**, 144, 727-35	4	50
60	Vanaso is a candidate quantitative trait gene for Drosophila olfactory behavior. *Genetics*, **2002**, 162, 1321-8	4	50
59	Natural variation, functional pleiotropy and transcriptional contexts of odorant binding protein genes in Drosophila melanogaster. *Genetics*, **2010**, 186, 1475-85	4	48
58	Modulation of feeding behavior by odorant-binding proteins in Drosophila melanogaster. *Chemical Senses*, **2014**, 39, 125-32	4.8	47
57	Alcohol sensitivity in Drosophila: translational potential of systems genetics. *Genetics*, **2009**, 183, 733-45, 1SI-12SI	4	41

56	Association of polymorphisms in odorant-binding protein genes with variation in olfactory response to benzaldehyde in Drosophila. *Genetics*, **2007**, 177, 1655-65	4	41
55	The DSC1 channel, encoded by the smi60E locus, contributes to odor-guided behavior in Drosophila melanogaster. *Genetics*, **2002**, 161, 1507-16	4	40
54	The genetic basis of alcoholism: multiple phenotypes, many genes, complex networks. *Genome Biology*, **2012**, 13, 239	18.3	39
53	Genetics and genomics of alcohol sensitivity. *Molecular Genetics and Genomics*, **2014**, 289, 253-69	3.1	36
52	Overexpression of myocilin in the Drosophila eye activates the unfolded protein response: implications for glaucoma. *PLoS ONE*, **2009**, 4, e4216	3.7	36
51	Genetic modules and networks for behavior: lessons from Drosophila. *BioEssays*, **2004**, 26, 1299-306	4.1	36
50	Polymorphisms in early neurodevelopmental genes affect natural variation in alcohol sensitivity in adult drosophila. *BMC Genomics*, **2015**, 16, 865	4.5	34
49	Odorant receptor polymorphisms and natural variation in olfactory behavior in Drosophila melanogaster. *Genetics*, **2010**, 186, 687-97	4	33
48	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	11.5	32
47	Natural variation in odorant recognition among odorant-binding proteins in Drosophila melanogaster. *Genetics*, **2010**, 184, 759-67	4	32
46	Transcriptional and epigenetic responses to mating and aging in Drosophila melanogaster. *BMC Genomics*, **2014**, 15, 927	4.5	31
45	Epistatic interactions attenuate mutations affecting startle behaviour in Drosophila melanogaster. *Genetical Research*, **2009**, 91, 373-82	1.1	31
44	The soluble proteome of the Drosophila antenna. *Chemical Senses*, **2010**, 35, 21-30	4.8	30
43	A Drosophila model for toxicogenomics: Genetic variation in susceptibility to heavy metal exposure. *PLoS Genetics*, **2017**, 13, e1006907	6	29
42	The genetic architecture of odor-guided behavior in Drosophila melanogaster. *Behavior Genetics*, **2001**, 31, 17-27	3.2	29
41	The Genetic Basis for Variation in Sensitivity to Lead Toxicity in Drosophila melanogaster. *Environmental Health Perspectives*, **2016**, 124, 1062-70	8.4	28
40	Olfactomedin-2 mediates development of the anterior central nervous system and head structures in zebrafish. *Mechanisms of Development*, **2008**, 125, 167-81	1.7	27
39	Genome-wide association analysis of tolerance to methylmercury toxicity in Drosophila implicates myogenic and neuromuscular developmental pathways. *PLoS ONE*, **2014**, 9, e110375	3.7	27

38	Pleiotropic fitness effects of the Tre1-Gr5a region in Drosophila melanogaster. *Nature Genetics*, **2006**, 38, 824-9	36.3	26
37	Pleiotropic effects of Drosophila neuralized on complex behaviors and brain structure. *Genetics*, **2008**, 179, 1327-36	4	25
36	Scribble is essential for olfactory behavior in Drosophila melanogaster. *Genetics*, **2003**, 164, 1447-57	4	23
35	Transcriptional networks for alcohol sensitivity in Drosophila melanogaster. *Genetics*, **2011**, 187, 1193-205	4	22
34	Extensive epistasis for olfactory behaviour, sleep and waking activity in Drosophila melanogaster. *Genetical Research*, **2012**, 94, 9-20	1.1	22
33	Variation in genetic architecture of olfactory behaviour among wild-derived populations of Drosophila melanogaster. *Journal of Evolutionary Biology*, **2008**, 21, 988-96	2.3	21
32	Pinocchio, a novel protein expressed in the antenna, contributes to olfactory behavior in Drosophila melanogaster. *Journal of Neurobiology*, **2005**, 63, 146-58		21
31	Transcription profiling in Drosophila eyes that overexpress the human glaucoma-associated trabecular meshwork-inducible glucocorticoid response protein/myocilin (TIGR/MYOC). *Genetics*, **2003**, 163, 637-45	4	21
30	Evolution of Reproductive Behavior. *Genetics*, **2020**, 214, 49-73	4	20
29	Gene expression networks in the Genetic Reference Panel. *Genome Research*, **2020**, 30, 485-496	9.7	19
28	Epistatic partners of neurogenic genes modulate Drosophila olfactory behavior. *Genes, Brain and Behavior*, **2016**, 15, 280-90	3.6	18
27	The early developmental gene Semaphorin 5c contributes to olfactory behavior in adult Drosophila. *Genetics*, **2007**, 176, 947-56	4	17
26	The road less traveled: from genotype to phenotype in flies and humans. *Mammalian Genome*, **2018** , 29, 5-23	3.2	16
25	Evolution of olfactomedin. Structural constraints and conservation of primary sequence motifs. *Annals of the New York Academy of Sciences*, **1998**, 855, 294-300	6.5	16
24	Context-dependent genetic architecture of Drosophila life span. *PLoS Biology*, **2020**, 18, e3000645	9.7	15
23	Genes of the unfolded protein response pathway harbor risk alleles for primary open angle glaucoma. *PLoS ONE*, **2011**, 6, e20649	3.7	14
22	Chemosensation and Evolution of Drosophila Host Plant Selection. *IScience*, **2020**, 23, 100799	6.1	13
21	Pheromone Regulated Production of Inositol-(1, 4, 5)-Trisphosphate in the Mammalian Vomeronasal Organ		11

20	Genetics of cocaine and methamphetamine consumption and preference in Drosophila melanogaster. *PLoS Genetics*, **2019**, 15, e1007834	6	10
19	Genotype by environment interaction for gene expression in Drosophila melanogaster. *Nature Communications*, **2020**, 11, 5451	17.4	10
18	Systems genetics of the metabolome. *Genome Research*, **2020**, 30, 392-405	9.7	9
17	Obp56h Modulates Mating Behavior in Drosophila melanogaster. *G3: Genes, Genomes, Genetics*, **2016**, 6, 3335-3342	3.2	9
16	Genetics of alcohol consumption in Drosophila melanogaster. *Genes, Brain and Behavior*, **2017**, 16, 675-685	3.6	8
15	A Centered Genetic Network Contributes to Alcohol-Induced Variation in Drosophila Development. *G3: Genes, Genomes, Genetics*, **2018**, 8, 2643-2653	3.2	7
14	Dissecting the Genetic Architecture of Behavior in. *Current Opinion in Behavioral Sciences*, **2015**, 2, 1-7	4	6
13	Evolution of Epistatic Networks and the Genetic Basis of Innate Behaviors. *Trends in Genetics*, **2020**, 36, 24-29	8.5	5
12	The brain on cocaine at single-cell resolution. *Genome Research*, **2021**, 31, 1927-1937	9.7	4
11	Regulation of Drosophila Lifespan by bellwether Promoter Alleles. *Scientific Reports*, **2017**, 7, 4109	4.9	3
10	Making scents of behavioural genetics: lessons from Drosophila. *Genetical Research*, **2010**, 92, 349-59	1.1	3
9	Tuning the chemosensory window: a fly's perspective. *Fly*, **2010**, 4, 230-5	1.3	2
8	Modulation of the Drosophila transcriptome by developmental exposure to alcohol.. *BMC Genomics* , **2022**, 23, 347	4.5	2
7	High-Throughput Method for Measuring Alcohol Sedation Time of Individual Drosophila melanogaster. *Journal of Visualized Experiments*, **2020**,	1.6	1
6	Genetic basis of variation in cocaine and methamphetamine consumption in outbred populations of. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	1
5	Developmental Alcohol Exposure in Drosophila: Effects on Adult Phenotypes and Gene Expression in the Brain. *Frontiers in Psychiatry*, **2021**, 12, 699033	5	1
4	Functional Diversification, Redundancy, and Epistasis among Paralogs of the Drosophila melanogaster Obp50a-d Gene Cluster. *Molecular Biology and Evolution*, **2021**, 38, 2030-2044	8.3	1
3	Physiological and metabolomic consequences of reduced expression of the Drosophila brummer triglyceride Lipase. *PLoS ONE*, **2021**, 16, e0255198	3.7	0

2	Ibrutinib as a potential therapeutic for cocaine use disorder. *Translational Psychiatry*, **2021**, 11, 623	8.6	0
1	Olfaction in Drosophila: from Receptors to Behavior. *Chemical Senses*, **2001**, 26, 193-193	4.8	