

Robert W. Williams

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

10,740
citations

53
h-index

84
g-index

84
ext. papers

12,359
ext. citations

10.7
avg, IF

5.64
L-index

#	Paper	IF	Citations
81	Systems genetics in the rat HXB/BXH family identifies <i>Tti2</i> as a pleiotropic quantitative trait gene for adult hippocampal neurogenesis and serum glucose.. <i>PLoS Genetics</i> , 2022 , 18, e1009638	6	0
80	A platform for experimental precision medicine: The extended BXD mouse family. <i>Cell Systems</i> , 2021 , 12, 235-247.e9	10.6	29
79	The genome sequence of the Norway rat, Berkenhout 1769. <i>Wellcome Open Research</i> , 2021 , 6, 118	4.8	4
78	Highlights from the Era of Open Source Web-Based Tools. <i>Journal of Neuroscience</i> , 2021 , 41, 927-936	6.6	1
77	Gene-by-environment modulation of lifespan and weight gain in the murine BXD family. <i>Nature Metabolism</i> , 2021 , 3, 1217-1227	14.6	5
76	Variability and heritability of mouse brain structure: Microscopic MRI atlases and connectomes for diverse strains. <i>NeuroImage</i> , 2020 , 222, 117274	7.9	8
75	Identifying the molecular systems that influence cognitive resilience to Alzheimer's disease in genetically diverse mice. <i>Learning and Memory</i> , 2020 , 27, 355-371	2.8	5
74	Genetic cartography of longevity in humans and mice: Current landscape and horizons. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018 , 1864, 2718-2732	6.9	18
73	Reproducibility and replicability of rodent phenotyping in preclinical studies. <i>Neuroscience and Biobehavioral Reviews</i> , 2018 , 87, 218-232	9	83
72	Post-genomic behavioral genetics: From revolution to routine. <i>Genes, Brain and Behavior</i> , 2018 , 17, e124416	3.6	6
71	Preface to a special issue on genetic models of alcoholism and alcohol-stress interactions. <i>Alcohol</i> , 2017 , 58, 23-24	2.7	1
70	Multi-omics analysis identifies ATF4 as a key regulator of the mitochondrial stress response in mammals. <i>Journal of Cell Biology</i> , 2017 , 216, 2027-2045	7.3	349
69	Orbitofrontal Neuroadaptations and Cross-Species Synaptic Biomarkers in Heavy-Drinking Macaques. <i>Journal of Neuroscience</i> , 2017 , 37, 3646-3660	6.6	32
68	Resources for Systems Genetics. <i>Methods in Molecular Biology</i> , 2017 , 1488, 3-29	1.4	19
67	Genetic Variation in the Social Environment Contributes to Health and Disease. <i>PLoS Genetics</i> , 2017 , 13, e1006498	6	53
66	GeneNetwork: framework for web-based genetics. <i>Journal of Open Source Software</i> , 2016 , 1, 25	5.2	15
65	Correlation Trait Loci (CTL) mapping: phenotype network inference subject to genotype. <i>Journal of Open Source Software</i> , 2016 , 1, 87	5.2	3

64	Common genetic variants influence human subcortical brain structures. <i>Nature</i> , 2015 , 520, 224-9	50.4	601
63	Genetics of gene expression in CNS. <i>International Review of Neurobiology</i> , 2014 , 116, 195-231	4.4	18
62	Functionally enigmatic genes: a case study of the brain ignorome. <i>PLoS ONE</i> , 2014 , 9, e88889	3.7	53
61	Mitonuclear protein imbalance as a conserved longevity mechanism. <i>Nature</i> , 2013 , 497, 451-7	50.4	656
60	Metabolic stress modulates Alzheimer's β-secretase gene transcription via SIRT1-PPARγ-PGC-1 in neurons. <i>Cell Metabolism</i> , 2013 , 17, 685-94	24.6	136
59	Genetic variation of the cutaneous HPA axis: an analysis of UVB-induced differential responses. <i>Gene</i> , 2013 , 530, 1-7	3.8	29
58	Genetic and molecular network analysis of behavior. <i>International Review of Neurobiology</i> , 2012 , 104, 135-57	4.4	16
57	Systems genetics of metabolism: the use of the BXD murine reference panel for multiscalar integration of traits. <i>Cell</i> , 2012 , 150, 1287-99	56.2	150
56	Murine gut microbiota is defined by host genetics and modulates variation of metabolic traits. <i>PLoS ONE</i> , 2012 , 7, e39191	3.7	152
55	A promoter polymorphism in the Per3 gene is associated with alcohol and stress response. <i>Translational Psychiatry</i> , 2012 , 2, e73	8.6	48
54	Fine-scale maps of recombination rates and hotspots in the mouse genome. <i>Genetics</i> , 2012 , 191, 757-64	4	65
53	Genetic dissection of behavioral flexibility: reversal learning in mice. <i>Biological Psychiatry</i> , 2011 , 69, 1109-16	7.16	75
52	Detection, validation, and downstream analysis of allelic variation in gene expression. <i>Genetics</i> , 2010 , 184, 119-28	4	48
51	Strain differences in stress responsivity are associated with divergent amygdala gene expression and glutamate-mediated neuronal excitability. <i>Journal of Neuroscience</i> , 2010 , 30, 5357-67	6.6	179
50	Metabolic networks of longevity. <i>Cell</i> , 2010 , 142, 9-14	56.2	153
49	Host genetic variation affects resistance to infection with a highly pathogenic H5N1 influenza A virus in mice. <i>Journal of Virology</i> , 2009 , 83, 10417-26	6.6	133
48	Antisense transcription: a critical look in both directions. <i>Cellular and Molecular Life Sciences</i> , 2009 , 66, 94-112	10.3	95
47	Interleukin 17-producing T helper cells and interleukin 17 orchestrate autoreactive germinal center development in autoimmune BXD2 mice. <i>Nature Immunology</i> , 2008 , 9, 166-75	19.1	571

46	Dissection of a QTL hotspot on mouse distal chromosome 1 that modulates neurobehavioral phenotypes and gene expression. <i>PLoS Genetics</i> , 2008 , 4, e1000260	6	78
45	Variation in mouse basolateral amygdala volume is associated with differences in stress reactivity and fear learning. <i>Neuropsychopharmacology</i> , 2008 , 33, 2595-604	8.7	106
44	High susceptibility to experimental myopia in a mouse model with a retinal on pathway defect. <i>Investigative Ophthalmology and Visual Science</i> , 2008 , 49, 706-12		92
43	The Diasporin Pathway: a tumor progression-related transcriptional network that predicts breast cancer survival. <i>Clinical and Experimental Metastasis</i> , 2008 , 25, 357-69	4.7	60
42	The Collaborative Cross at Oak Ridge National Laboratory: developing a powerful resource for systems genetics. <i>Mammalian Genome</i> , 2008 , 19, 382-9	3.2	201
41	Exploiting regulatory variation to identify genes underlying quantitative resistance to the wheat stem rust pathogen <i>Puccinia graminis</i> f. sp. <i>tritici</i> in barley. <i>Theoretical and Applied Genetics</i> , 2008 , 117, 261-72	6	41
40	The neuroscience information framework: a data and knowledge environment for neuroscience. <i>Neuroinformatics</i> , 2008 , 6, 149-60	3.2	148
39	Alcohol trait and transcriptional genomic analysis of C57BL/6 substrains. <i>Genes, Brain and Behavior</i> , 2008 , 7, 677-89	3.6	57
38	Genome-level analysis of genetic regulation of liver gene expression networks. <i>Hepatology</i> , 2007 , 46, 548-57	11.2	44
37	The p47 GTPases <i>Iigp2</i> and <i>Irgb10</i> regulate innate immunity and inflammation to murine <i>Chlamydia psittaci</i> infection. <i>Journal of Immunology</i> , 2007 , 179, 1814-24	5.3	70
36	Combined expression trait correlations and expression quantitative trait locus mapping. <i>PLoS Genetics</i> , 2006 , 2, e6	6	83
35	A high-resolution single nucleotide polymorphism genetic map of the mouse genome. <i>PLoS Biology</i> , 2006 , 4, e395	9.7	218
34	Natural variation and genetic covariance in adult hippocampal neurogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 780-5	11.5	165
33	How replicable are mRNA expression QTL?. <i>Mammalian Genome</i> , 2006 , 17, 643-56	3.2	52
32	Uncovering regulatory pathways that affect hematopoietic stem cell function using Tgenetical genomicsT <i>Nature Genetics</i> , 2005 , 37, 225-32	36.3	330
31	Complex trait analysis of gene expression uncovers polygenic and pleiotropic networks that modulate nervous system function. <i>Nature Genetics</i> , 2005 , 37, 233-42	36.3	588
30	Genetic segregation of spontaneous erosive arthritis and generalized autoimmune disease in the BXD2 recombinant inbred strain of mice. <i>Scandinavian Journal of Immunology</i> , 2005 , 61, 128-38	3.4	52
29	Quantitative trait locus analysis using recombinant inbred intercrosses: theoretical and empirical considerations. <i>Genetics</i> , 2005 , 170, 1299-311	4	66

28	Inferring gene transcriptional modulatory relations: a genetical genomics approach. <i>Human Molecular Genetics</i> , 2005 , 14, 1119-25	5.6	66
27	Ethanol-responsive brain region expression networks: implications for behavioral responses to acute ethanol in DBA/2J versus C57BL/6J mice. <i>Journal of Neuroscience</i> , 2005 , 25, 2255-66	6.6	184
26	Measurement of refractive state and deprivation myopia in two strains of mice. <i>Optometry and Vision Science</i> , 2004 , 81, 99-110	2.1	119
25	The Collaborative Cross, a community resource for the genetic analysis of complex traits. <i>Nature Genetics</i> , 2004 , 36, 1133-7	36.3	822
24	WebQTL: rapid exploratory analysis of gene expression and genetic networks for brain and behavior. <i>Nature Neuroscience</i> , 2004 , 7, 485-6	25.5	156
23	Genetic structure of the LXS panel of recombinant inbred mouse strains: a powerful resource for complex trait analysis. <i>Mammalian Genome</i> , 2004 , 15, 637-47	3.2	88
22	Towards effective and rewarding data sharing. <i>Neuroinformatics</i> , 2003 , 1, 289-95	3.2	63
21	WebQTL: web-based complex trait analysis. <i>Neuroinformatics</i> , 2003 , 1, 299-308	3.2	229
20	Genetic correlates of gene expression in recombinant inbred strains: a relational model system to explore neurobehavioral phenotypes. <i>Neuroinformatics</i> , 2003 , 1, 343-57	3.2	107
19	A strategy for the integration of QTL, gene expression, and sequence analyses. <i>Mammalian Genome</i> , 2003 , 14, 733-47	3.2	65
18	Genetic architecture of the mouse hippocampus: identification of gene loci with selective regional effects. <i>Genes, Brain and Behavior</i> , 2003 , 2, 238-52	3.6	63
17	The nature and identification of quantitative trait loci: a community's view. <i>Nature Reviews Genetics</i> , 2003 , 4, 911-6	30.1	330
16	Increased brain size and glial cell number in CD81-null mice. <i>Journal of Comparative Neurology</i> , 2002 , 453, 22-32	3.4	74
15	Genetic dissection of complex and quantitative traits: from fantasy to reality via a community effort. <i>Mammalian Genome</i> , 2002 , 13, 175-8	3.2	159
14	QTL analysis and genomewide mutagenesis in mice: complementary genetic approaches to the dissection of complex traits. <i>Behavior Genetics</i> , 2001 , 31, 5-15	3.2	66
13	Genetic control of retinal projections in inbred strains of albino mice. <i>Journal of Comparative Neurology</i> , 1995 , 354, 459-69	3.4	48
12	Target recognition and visual maps in the thalamus of chiasmatic dogs. <i>Nature</i> , 1994 , 367, 637-9	50.4	76
11	Structure of clonal and polyclonal cell arrays in chimeric mouse retina. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 1184-8	11.5	48

10	Lineage versus environment in embryonic retina: a revisionist perspective. <i>Trends in Neurosciences</i> , 1992 , 15, 368-73	13.3	44
9	A novel cytoarchitectonic area induced experimentally within the primate visual cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 2083-7	11.5	217
8	Photoreceptor mosaic: number and distribution of rods and cones in the rhesus monkey retina. <i>Journal of Comparative Neurology</i> , 1990 , 297, 499-508	3.4	131
7	Elimination of neurons from the rhesus monkey's lateral geniculate nucleus during development. <i>Journal of Comparative Neurology</i> , 1988 , 272, 424-36	3.4	112
6	Three-dimensional counting: an accurate and direct method to estimate numbers of cells in sectioned material. <i>Journal of Comparative Neurology</i> , 1988 , 278, 344-52	3.4	397
5	The control of neuron number. <i>Annual Review of Neuroscience</i> , 1988 , 11, 423-53	17	456
4	Formation of retinal ganglion cell topography during prenatal development. <i>Science</i> , 1987 , 236, 848-51	33.3	96
3	Growth cones, dying axons, and developmental fluctuations in the fiber population of the cat's optic nerve. <i>Journal of Comparative Neurology</i> , 1986 , 246, 32-69	3.4	182
2	Dispersion of growing axons within the optic nerve of the embryonic monkey. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985 , 82, 3906-10	11.5	67
1	The expanded BXD family of mice: A cohort for experimental systems genetics and precision medicine		15