Jacob Ellegood

List of Publications by Year
in descending order

75 papers	4,180 citations	147566 31 h-index	143772 57 g-index
94 all docs	94 docs citations	94 times ranked	5606 citing authors

#	Article	IF	Citations
1	Dosage-dependent phenotypes in models of 16p11.2 lesions found in autism. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17076-17081.	3.3	289
2	Altered cerebellar connectivity in autism and cerebellar-mediated rescue of autism-related behaviors in mice. Nature Neuroscience, 2017, 20, 1744-1751.	7.1	275
3	Clustering autism: using neuroanatomical differences in 26 mouse models to gain insight into the heterogeneity. Molecular Psychiatry, 2015, 20, 118-125.	4.1	257
4	Germline Chd8 haploinsufficiency alters brain development in mouse. Nature Neuroscience, 2017, 20, 1062-1073.	7.1	210
5	Behavioral Abnormalities and Circuit Defects in the Basal Ganglia of a Mouse Model of 16p11.2 Deletion Syndrome. Cell Reports, 2014, 7, 1077-1092.	2.9	208
6	Regulation of autism-relevant behaviors by cerebellarâ€“prefrontal cortical circuits. Nature Neuroscience, 2020, 23, 1102-1110.	7.1	149
7	Genetic Effects on Cerebellar Structure Across Mouse Models of Autism Using a Magnetic Resonance Imaging Atlas. Autism Research, 2014, 7, 124-137.	2.1	148
8	Neuroanatomical analysis of the BTBR mouse model of autism using magnetic resonance imaging and diffusion tensor imaging. NeuroImage, 2013, 70, 288-300.	2.1	128
9	Sexually dimorphic behavior, neuronal activity, and gene expression in Chd8-mutant mice. Nature Neuroscience, 2018, 21, 1218-1228.	7.1	128
10	Altered TAOK2 activity causes autism-related neurodevelopmental and cognitive abnormalities through RhoA signaling. Molecular Psychiatry, 2019, 24, 1329-1350.	4.1	128
11	Kctd13 deletion reduces synaptic transmission via increased RhoA. Nature, 2017, 551, 227-231.	13.7	125
12	Preparation of fixed mouse brains for MRI. NeuroImage, 2012, 60, 933-939.	2.1	120
13	Altered Neocortical Gene Expression, Brain Overgrowth and Functional Over-Connectivity in Chd8 Haploinsufficient Mice. Cerebral Cortex, 2018, 28, 2192-2206.	1.6	118
14	Behavioral and Neuroanatomical Phenotypes in Mouse Models of Autism. Neurotherapeutics, 2015, 12, 521-533.	2.1	108
15	Anatomical phenotyping in a mouse model of fragile X syndrome with magnetic resonance imaging. NeuroImage, 2010, 53, 1023-1029.	2.1	102
16	Sensitive Periods for Cerebellar-Mediated Autistic-like Behaviors. Cell Reports, 2018, 25, 357-367.e4.	2.9	82
17	Developmental social communication deficits in the Shank3 rat model of phelanâ€mcdermid syndrome and autism spectrum disorder. Autism Research, 2018, 11, 587-601.	2.1	78
18	Species-conserved SYNGAP1 phenotypes associated with neurodevelopmental disorders. Molecular and Cellular Neurosciences, 2018, 91, 140-150.	1.0	70

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19	Prenatal Î²-catenin/Brn2/Tbr2 transcriptional cascade regulates adult social and stereotypic behaviors. Molecular Psychiatry, 2016, 21, 1417-1433.	4.1	62
20	Brain abnormalities in a Neuroligin3 R451C knockin mouse model associated with autism. Autism Research, 2011, 4, 368-376.	2.1	60
21	Neuronal overexpression of Ube3a isoform 2 causes behavioral impairments and neuroanatomical pathology relevant to 15q11.2-q13.3 duplication syndrome. Human Molecular Genetics, 2017, 26, 3995-4010.	1.4	59
22	Structural covariance of brain region volumes is associated with both structural connectivity and transcriptomic similarity. NeuroImage, 2018, 179, 357-372.	2.1	57
23	Neuroanatomical phenotypes in a mouse model of the 22q11.2 microdeletion. Molecular Psychiatry, 2014, 19, 99-107.	4.1	55
24	Foxp1 regulation of neonatal vocalizations via cortical development. Genes and Development, 2017, 31, 2039-2055.	2.7	52
25	Placental endocrine function shapes cerebellar development and social behavior. Nature Neuroscience, 2021, 24, 1392-1401.	7.1	52
26	Translational outcomes in a full gene deletion of ubiquitin protein ligase E3A rat model of Angelman syndrome. Translational Psychiatry, 2020, 10, 39.	2.4	50
27	Foxp1 in Forebrain Pyramidal Neurons Controls Gene Expression Required for Spatial Learning and Synaptic Plasticity. Journal of Neuroscience, 2017, 37, 10917-10931.	1.7	48
28	Shifting priorities: highly conserved behavioral and brain network adaptations to chronic stress across species. Translational Psychiatry, 2018, 8, 26.	2.4	48
29	Brain mapping across 16 autism mouse models reveals a spectrum of functional connectivity subtypes. Molecular Psychiatry, 2021, 26, 7610-7620.	4.1	47
30	Neuroanatomical Assessment of the Integrin Î²3 Mouse Model Related to Autism and the Serotonin System Using High Resolution MRI. Frontiers in Psychiatry, 2012, 3, 37.	1.3	46
31	Deep brain stimulation of the ventromedial prefrontal cortex causes reorganization of neuronal processes and vasculature. NeuroImage, 2016, 125, 422-427.	2.1	41
32	Regional brain volumes changes in adult male FMR1-KO mouse on the FVB strain. Neuroscience, 2016, 318, 12-21.	1.1	38
33	Neuroanatomical Phenotypes Are Consistent With Autismâ€Like Behavioral Phenotypes in the 15q11â€13 Duplication Mouse Model. Autism Research, 2015, 8, 545-555.	2.1	34
34	Loss of T cells influences sex differences in behavior and brain structure. Brain, Behavior, and Immunity, 2015, 46, 249-260.	2.0	33
35	Repeated exposure to sucrose for procedural pain in mouse pups leads to long-term widespread brain alterations. Pain, 2017, 158, 1586-1598.	2.0	32
36	Kctd13-deficient mice display short-term memory impairment and sex-dependent genetic interactions. Human Molecular Genetics, 2019, 28, 1474-1486.	1.4	32

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37	Setd5 haploinsufficiency alters neuronal network connectivity and leads to autistic-like behaviors in mice. Translational Psychiatry, 2019, 9, 24.	2.4	31
38	Neuroanatomy in mouse models of Rett syndrome is related to the severity of Mecp2 mutation and behavioral phenotypes. Molecular Autism, 2017, 8, 32.	2.6	30
39	Translational outcomes relevant to neurodevelopmental disorders following early life exposure of rats to chlorpyrifos. Journal of Neurodevelopmental Disorders, 2020, 12, 40.	1.5	29
40	Behavioral and neuroanatomical approaches in models of neurodevelopmental disorders: opportunities for translation. Current Opinion in Neurology, 2018, 31, 126-133.	1.8	27
41	The Î³-Protocadherins Regulate the Survival of GABAergic Interneurons during Developmental Cell Death. Journal of Neuroscience, 2020, 40, 8652-8668.	1.7	26
42	Autism-linked Cullin3 germline haploinsufficiency impacts cytoskeletal dynamics and cortical neurogenesis through RhoA signaling. Molecular Psychiatry, 2021, 26, 3586-3613.	4.1	26
43	Vertebrate Intersectin1 Is Repurposed to Facilitate Cortical Midline Connectivity and Higher Order Cognition. Journal of Neuroscience, 2013, 33, 4055-4065.	1.7	25
44	Precocious myelination in a mouse model of autism. Translational Psychiatry, 2019, 9, 251.	2.4	24
45	Considerations for measuring the fractional anisotropy of metabolites with diffusion tensor spectroscopy. NMR in Biomedicine, 2011, 24, 270-280.	1.6	22
46	Neuroanatomy and behavior in mice with a haploinsufficiency of AT-rich interactive domain 1B (ARID1B) throughout development. Molecular Autism, 2021, 12, 25.	2.6	21
47	Developmental and Behavioral Phenotypes in a Mouse Model of DDX3X Syndrome. Biological Psychiatry, 2021, 90, 742-755.	0.7	21
48	Distinct cerebellar foliation anomalies in a CHD7 haploinsufficient mouse model of CHARGE syndrome. American Journal of Medical Genetics, Part C: Seminars in Medical Genetics, 2017, 175, .	0.7	19
49	Effects of placental growth factor deficiency on behavior, neuroanatomy, and cerebrovasculature of mice. Physiological Genomics, 2018, 50, 862-875.	1.0	19
50	Spatial gene expression analysis of neuroanatomical differences in mouse models. NeuroImage, 2017, 163, 220-230.	2.1	18
51	Excitatory neuronal CHD8 in the regulation of neocortical development and sensory-motor behaviors. Cell Reports, 2021, 34, 108780.	2.9	18
52	3D visualization of the regional differences. Molecular Psychiatry, 2015, 20, 1-1.	4.1	16
53	Distinct, dosage-sensitive requirements for the autism-associated factor CHD8 during cortical development. Molecular Autism, 2021, 12, 16.	2.6	15
54	Analysis of neuroanatomical differences in mice with genetically modified serotonin transporters assessed by structural magnetic resonance imaging. Molecular Autism, 2018, 9, 24.	2.6	14

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55	Atrx Deletion in Neurons Leads to Sexually Dimorphic Dysregulation of miR-137 and Spatial Learning and Memory Deficits. Cell Reports, 2020, 31, 107838.	2.9	14
56	PDZD8 Disruption Causes Cognitive Impairment in Humans, Mice, and Fruit Flies. Biological Psychiatry, 2022, 92, 323-334.	0.7	14
57	Altered brain development in an early-onset murine model of Alzheimer's disease. Neurobiology of Aging, 2015, 36, 638-647.	1.5	13
58	Pten haploinsufficiency disrupts scaling across brain areas during development in mice. Translational Psychiatry, 2019, 9, 329.	2.4	13
59	Excessive Laughter-like Vocalizations, Microcephaly, and Translational Outcomes in theUbe3aDeletion Rat Model of Angelman Syndrome. Journal of Neuroscience, 2021, 41, 8801-8814.	1.7	13
60	Sexually dimorphic neuroanatomical differences relate to ASD-relevant behavioral outcomes in a maternal autoantibody mouse model. Molecular Psychiatry, 2021, 26, 7530-7537.	4.1	12
61	Multiple-mouse magnetic resonance imaging with cryogenic radiofrequency probes for evaluation of brain development. NeuroImage, 2022, 252, 119008.	2.1	12
62	Systemic inflammation combined with neonatal cerebellar haemorrhage aggravates long-term structural and functional outcomes in a mouse model. Brain, Behavior, and Immunity, 2017, 66, 257-276.	2.0	11
63	Effects of Low-Dose Gestational TCDD Exposure on Behavior and on Hippocampal Neuron Morphology and Gene Expression in Mice. Environmental Health Perspectives, 2021, 129, 57002.	2.8	11
64	Reduced anterior cingulate cortex volume induced by chronic stress correlates with increased behavioral emotionality and decreased synaptic puncta density. Neuropharmacology, 2021, 190, 108562.	2.0	11
65	A ketogenic diet affects brain volume and metabolome in juvenile mice. NeuroImage, 2021, 244, 118542.	2.1	10
66	A highly specific pattern of volumetric brain changes due to 22q11.2 deletions in both mice and humans. Molecular Psychiatry, 2014, 19, 6-6.	4.1	8
67	Cerebellar Vermis and Midbrain Hypoplasia Upon Conditional Deletion of Chd7 from the Embryonic Mid-Hindbrain Region. Frontiers in Neuroanatomy, 2017, 11, 86.	0.9	7
68	Behavioral and neuroanatomical analyses in a genetic mouse model of 2q13 duplication. Genes To Cells, 2017, 22, 436-451.	0.5	6
69	Cyclin D2-knock-out mice with attenuated dentate gyrus neurogenesis have robust deficits in long-term memory formation. Scientific Reports, 2020, 10, 8204.	1.6	6
70	Genetic mouse models of autism spectrum disorder present subtle heterogenous cardiac abnormalities. Autism Research, 2022, 15, 1189-1208.	2.1	6
71	Pten haploinsufficiency causes desynchronized growth of brain areas involved in sensory processing. IScience, 2022, 25, 103796.	1.9	5
72	Examining the effect of chronic intranasal oxytocin administration on the neuroanatomy and behavior of three autism-related mouse models. NeuroImage, 2022, 257, 119243.	2.1	4

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73	Is There a Hemispheric Disconnect in Neurodevelopmental Disorders?. Trends in Neurosciences, 2019, 42, 843-844.	4.2	0
74	Characterization of mice bearing humanized androgen receptor genes (h/mAr) varying in polymorphism length. NeuroImage, 2021, 226, 117594.	2.1	0
75	Atrx Deletion in Neurons Leads to Sexually-Dimorphic Dysregulation of miR-137 and Spatial Learning and Memory Deficits. SSRN Electronic Journal, 0, , .	0.4	0