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List of Publications by Year
in descending order

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77 papers	6,807 citations	101543 36 h-index	74163 75 g-index
87 all docs	87 docs citations	87 times ranked	7838 citing authors

#	Article	IF	Citations
1	Behavioural phenotyping assays for mouse models of autism. Nature Reviews Neuroscience, 2010, 11, 490-502.	10.2	1,248
2	Haploinsufficiency of the autism-associated Shank3 gene leads to deficits in synaptic function, social interaction, and social communication. Molecular Autism, 2010, 1, 15.	4.9	521
3	Automated Threeâ€Chambered Social Approach Task for Mice. Current Protocols in Neuroscience, 2011, 56, Unit 8.26.	2.6	418
4	Repetitive Self-Grooming Behavior in the BTBR Mouse Model of Autism is Blocked by the mGluR5 Antagonist MPEP. Neuropsychopharmacology, 2010, 35, 976-989.	5.4	374
5	Reduced Excitatory Neurotransmission and Mild Autism-Relevant Phenotypes in AdolescentShank3Null Mutant Mice. Journal of Neuroscience, 2012, 32, 6525-6541.	3.6	342
6	Negative Allosteric Modulation of the mGluR5 Receptor Reduces Repetitive Behaviors and Rescues Social Deficits in Mouse Models of Autism. Science Translational Medicine, 2012, 4, 131ra51.	12.4	238
7	Germline Chd8 haploinsufficiency alters brain development in mouse. Nature Neuroscience, 2017, 20, 1062-1073.	14.8	210
8	Sociability and motor functions in Shank1 mutant mice. Brain Research, 2011, 1380, 120-137.	2.2	206
9	GABAB Receptor Agonist R-Baclofen Reverses Social Deficits and Reduces Repetitive Behavior in Two Mouse Models of Autism. Neuropsychopharmacology, 2015, 40, 2228-2239.	5.4	187
10	Modeling fragile X syndrome in the <i>Fmr1</i> knockout mouse. Intractable and Rare Diseases Research, 2014, 3, 118-133.	0.9	183
11	Regulation of autism-relevant behaviors by cerebellarâ€“prefrontal cortical circuits. Nature Neuroscience, 2020, 23, 1102-1110.	14.8	149
12	Autism-Relevant Social Abnormalities and Cognitive Deficits in Engrailed-2 Knockout Mice. PLoS ONE, 2012, 7, e40914.	2.5	143
13	Replicable in vivo physiological and behavioral phenotypes of the Shank3B null mutant mouse model of autism. Molecular Autism, 2017, 8, 26.	4.9	135
14	Low stress reactivity and neuroendocrine factors in the BTBR T+tf/J mouse model of autism. Neuroscience, 2010, 171, 1197-1208.	2.3	125
15	Long-term exposure to intranasal oxytocin in a mouse autism model. Translational Psychiatry, 2014, 4, e480-e480.	4.8	112
16	Developmental delays and reduced pup ultrasonic vocalizations but normal sociability in mice lacking the postsynaptic cell adhesion protein neuroligin2. Behavioural Brain Research, 2013, 251, 50-64.	2.2	110
17	Working memory deficits, increased anxiety-like traits, and seizure susceptibility in BDNF overexpressing mice. Learning and Memory, 2011, 18, 534-544.	1.3	108
18	Low sociability in BTBR T+tf/J mice is independent of partner strain. Physiology and Behavior, 2012, 107, 649-662.	2.1	100

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19	Translational Mouse Models of Autism: Advancing Toward Pharmacological Therapeutics. Current Topics in Behavioral Neurosciences, 2015, 28, 1-52.	1.7	100
20	AMPAKINE enhancement of social interaction in the BTBR mouse model of autism. Neuropharmacology, 2013, 64, 268-282.	4.1	98
21	Developmental social communication deficits in the Shank3 rat model of phelanâ€mcdermid syndrome and autism spectrum disorder. Autism Research, 2018, 11, 587-601.	3.8	78
22	Absence of deficits in social behaviors and ultrasonic vocalizations in later generations of mice lacking neuroligin4. Genes, Brain and Behavior, 2012, 11, 928-941.	2.2	71
23	Persistent neuroinflammation and cognitive impairment in a rat model of acute diisopropylfluorophosphate intoxication. Journal of Neuroinflammation, 2016, 13, 267.	7.2	71
24	Hippocampal Transcriptomic and Proteomic Alterations in the BTBR Mouse Model of Autism Spectrum Disorder. Frontiers in Physiology, 2015, 6, 324.	2.8	70
25	Persistent behavior deficits, neuroinflammation, and oxidative stress in a rat model of acute organophosphate intoxication. Neurobiology of Disease, 2020, 133, 104431.	4.4	69
26	Behavioral Phenotyping of Juvenile Long-Evans and Sprague-Dawley Rats: Implications for Preclinical Models of Autism Spectrum Disorders. PLoS ONE, 2016, 11, e0158150.	2.5	60
27	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.	2.9	59
28	Evidence for the involvement of ERÎ² and RGS9-2 in 17-Î² estradiol enhancement of amphetamine-induced place preference behavior. Hormones and Behavior, 2007, 52, 146-155.	2.1	56
29	Reconsidering animal models used to study autism spectrum disorder: Current state and optimizing future. Genes, Brain and Behavior, 2022, 21, e12803.	2.2	55
30	Cognitive deficits in the Snord116 deletion mouse model for Prader-Willi syndrome. Neurobiology of Learning and Memory, 2019, 165, 106874.	1.9	53
31	Touchscreen learning deficits and normal social approach behavior in the Shank3B model of Phelanâ€“McDermid Syndrome and autism. Neuroscience, 2017, 345, 155-165.	2.3	52
32	Translational outcomes in a full gene deletion of ubiquitin protein ligase E3A rat model of Angelman syndrome. Translational Psychiatry, 2020, 10, 39.	4.8	50
33	Engrailed-2 (En2) deletion produces multiple neurodevelopmental defects in monoamine systems, forebrain structures and neurogenesis and behavior. Human Molecular Genetics, 2015, 24, 5805-5827.	2.9	45
34	Methodological Considerations for Optimizing and Validating Behavioral Assays. Current Protocols in Mouse Biology, 2016, 6, 364-379.	1.2	42
35	Autism-specific maternal autoantibodies produce behavioral abnormalities in an endogenous antigen-driven mouse model of autism. Molecular Psychiatry, 2020, 25, 2994-3009.	7.9	42
36	SynDIG4/Prrt1 Is Required for Excitatory Synapse Development and Plasticity Underlying Cognitive Function. Cell Reports, 2018, 22, 2246-2253.	6.4	41

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37	Effects of early life exposure to traffic-related air pollution on brain development in juvenile Sprague-Dawley rats. Translational Psychiatry, 2020, 10, 166.	4.8	41
38	Cognitive Abilities on Transitive Inference Using a Novel Touchscreen Technology for Mice. Cerebral Cortex, 2015, 25, 1133-1142.	2.9	39
39	Behavioral assessment of NIH Swiss mice acutely intoxicated with tetramethylenedisulfotetramine. Neurotoxicology and Teratology, 2015, 47, 36-45.	2.4	38
40	Influence of stimulant-induced hyperactivity on social approach in the BTBR mouse model of autism. Neuropharmacology, 2013, 68, 210-222.	4.1	35
41	The Effects of Chronic Exposure to Ambient Traffic-Related Air Pollution on Alzheimerâ€™s Disease Phenotypes in Wildtype and Genetically Predisposed Male and Female Rats. Environmental Health Perspectives, 2021, 129, 57005.	6.0	35
42	Sex Differences in the Effects of a Kappa Opioid Receptor Antagonist in the Forced Swim Test. Frontiers in Pharmacology, 2018, 9, 93.	3.5	32
43	mGluR5 Modulation of Behavioral and Epileptic Phenotypes in a Mouse Model of Tuberous Sclerosis Complex. Neuropsychopharmacology, 2018, 43, 1457-1465.	5.4	32
44	Pathogenic WDFY3 variants cause neurodevelopmental disorders and opposing effects on brain size. Brain, 2019, 142, 2617-2630.	7.6	31
45	The promising trajectory of autism therapeutics discovery. Drug Discovery Today, 2014, 19, 838-844.	6.4	29
46	Translational outcomes relevant to neurodevelopmental disorders following early life exposure of rats to chlorpyrifos. Journal of Neurodevelopmental Disorders, 2020, 12, 40.	3.1	29
47	Generation of a Novel Rat Model of Angelman Syndrome with a Complete Ube3a Gene Deletion. Autism Research, 2020, 13, 397-409.	3.8	28
48	Behavioral and neuroanatomical approaches in models of neurodevelopmental disorders: opportunities for translation. Current Opinion in Neurology, 2018, 31, 126-133.	3.6	27
49	Lost in translation: At the crossroads of face validity and translational utility of behavioral assays in animal models for the development of therapeutics. Neuroscience and Biobehavioral Reviews, 2020, 116, 452-453.	6.1	26
50	Genetic backgrounds have unique seizure response profiles and behavioral outcomes following convulsant administration. Epilepsy and Behavior, 2019, 101, 106547.	1.7	25
51	Functional rescue in an Angelman syndrome model following treatment with lentivector transduced hematopoietic stem cells. Human Molecular Genetics, 2021, 30, 1067-1083.	2.9	25
52	Chronic desipramine treatment rescues depressionâ€related, social and cognitive deficits in Engrailedâ€2 knockout mice. Genes, Brain and Behavior, 2014, 13, 286-298.	2.2	24
53	Normal Performance of Fmr1 Mice on a Touchscreen Delayed Nonmatching to Position Working Memory Task. ENeuro, 2016, 3, ENEURO.0143-15.2016.	1.9	21
54	Developmental exposure to near roadway pollution produces behavioral phenotypes relevant to neurodevelopmental disorders in juvenile rats. Translational Psychiatry, 2020, 10, 289.	4.8	21

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55	Neuroanatomy and behavior in mice with a haploinsufficiency of AT-rich interactive domain 1B (ARID1B) throughout development. Molecular Autism, 2021, 12, 25.	4.9	21
56	Abnormal electrophysiological phenotypes and sleep deficits in a mouse model of Angelman Syndrome. Molecular Autism, 2021, 12, 9.	4.9	20
57	Early Developmental EEG and Seizure Phenotypes in a Full Gene Deletion of Ubiquitin Protein Ligase E3A Rat Model of Angelman Syndrome. ENeuro, 2021, 8, ENEURO.0345-20.2020.	1.9	20
58	Emerging Gene and Small Molecule Therapies for the Neurodevelopmental Disorder Angelman Syndrome. Neurotherapeutics, 2021, 18, 1535-1547.	4.4	19
59	Developmental Exposure to a Human-Relevant Polychlorinated Biphenyl Mixture Causes Behavioral Phenotypes That Vary by Sex and Genotype in Juvenile Mice Expressing Human Mutations That Modulate Neuronal Calcium. Frontiers in Neuroscience, 2021, 15, 766826.	2.8	17
60	Genetic mutations in Ca²⁺ signaling alter dendrite morphology and social approach in juvenile mice. Genes, Brain and Behavior, 2019, 18, e12526.	2.2	16
61	Deletion of a non-canonical regulatory sequence causes loss of Scn1a expression and epileptic phenotypes in mice. Genome Medicine, 2021, 13, 69.	8.2	15
62	Early lysosome defects precede neurodegeneration with amyloid-Î² and tau aggregation in NHE6-null rat brain. Brain, 2022, 145, 3187-3202.	7.6	14
63	Autistic traits in epilepsy models: Why, when and how?. Epilepsy Research, 2018, 144, 62-70.	1.6	13
64	Excessive Laughter-like Vocalizations, Microcephaly, and Translational Outcomes in theUbe3aDeletion Rat Model of Angelman Syndrome. Journal of Neuroscience, 2021, 41, 8801-8814.	3.6	13
65	Sexually dimorphic neuroanatomical differences relate to ASD-relevant behavioral outcomes in a maternal autoantibody mouse model. Molecular Psychiatry, 2021, 26, 7530-7537.	7.9	12
66	Insulin-like growth factor-2 does not improve behavioral deficits in mouse and rat models of Angelman Syndrome. Molecular Autism, 2021, 12, 59.	4.9	10
67	Imprinting effects of UBE3A loss on synaptic gene networks and Wnt signaling pathways. Human Molecular Genetics, 2019, 28, 3842-3852.	2.9	9
68	Gait as a quantitative translational outcome measure in Angelman syndrome. Autism Research, 2022, 15, 821-833.	3.8	9
69	Persistent neuropathology and behavioral deficits in a mouse model of status epilepticus induced by acute intoxication with diisopropylfluorophosphate. NeuroToxicology, 2021, 87, 106-119.	3.0	8
70	Touchscreen cognitive deficits, hyperexcitability and hyperactivity in males and females using two models ofCdkl5deficiency. Human Molecular Genetics, 2022, 31, 3032-3050.	2.9	8
71	Sex-specific acute and chronic neurotoxicity of acute diisopropylfluorophosphate (DFP)-intoxication in juvenile Sprague-Dawley rats. Current Research in Toxicology, 2021, 2, 341-356.	2.7	7
72	Cyclin D2-knock-out mice with attenuated dentate gyrus neurogenesis have robust deficits in long-term memory formation. Scientific Reports, 2020, 10, 8204.	3.3	6

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73	T49. Autism-Specific Maternal Autoantibodies Produce ASD Relevant Behaviors in a Mouse Model. Biological Psychiatry, 2018, 83, S147-S148.	1.3	3
74	Emulating Near-Roadway Exposure to Traffic-Related Air Pollution via Real-Time Emissions from a Major Freeway Tunnel System. Environmental Science & Technology, 2022, 56, 7083-7095.	10.0	3
75	An in vivo Cell-Based Delivery Platform for Zinc Finger Artificial Transcription Factors in Pre-clinical Animal Models. Frontiers in Molecular Neuroscience, 2021, 14, 789913.	2.9	2
76	Animal models of autism. , 2022, , 157-196.		1
77	Measuring Social Communication in Rodent Models of Neurodevelopmental Disorders. , 2022, , 70-84.		0