Jill L Silverman

List of Publications by Year
in descending order

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	Measuring Social Communication in Rodent Models of Neurodevelopmental Disorders. , 2022, , 70-84.		0
2	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
3	Reconsidering animal models used to study autism spectrum disorder: Current state and optimizing future. Genes, Brain and Behavior, 2022, 21, e12803.	2.2	55
4	Gait as a quantitative translational outcome measure in Angelman syndrome. Autism Research, 2022, 15, 821-833.	3.8	9
5	Early lysosome defects precede neurodegeneration with amyloid-Î² and tau aggregation in NHE6-null rat brain. Brain, 2022, 145, 3187-3202.	7.6	14
6	Touchscreen cognitive deficits, hyperexcitability and hyperactivity in males and females using two models ofCdkl5deficiency. Human Molecular Genetics, 2022, 31, 3032-3050.	2.9	8
7	Animal models of autism. , 2022, , 157-196.		1
8	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
9	Abnormal electrophysiological phenotypes and sleep deficits in a mouse model of Angelman Syndrome. Molecular Autism, 2021, 12, 9.	4.9	20
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	Emerging Gene and Small Molecule Therapies for the Neurodevelopmental Disorder Angelman Syndrome. Neurotherapeutics, 2021, 18, 1535-1547.	4.4	19
18	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

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19	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
20	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
21	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
22	Persistent behavior deficits, neuroinflammation, and oxidative stress in a rat model of acute organophosphate intoxication. Neurobiology of Disease, 2020, 133, 104431.	4.4	69
23	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
24	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
25	Regulation of autism-relevant behaviors by cerebellarâ€“prefrontal cortical circuits. Nature Neuroscience, 2020, 23, 1102-1110.	14.8	149
26	Developmental exposure to near roadway pollution produces behavioral phenotypes relevant to neurodevelopmental disorders in juvenile rats. Translational Psychiatry, 2020, 10, 289.	4.8	21
27	Translational outcomes relevant to neurodevelopmental disorders following early life exposure of rats to chlorpyrifos. Journal of Neurodevelopmental Disorders, 2020, 12, 40.	3.1	29
28	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
29	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
30	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
31	Generation of a Novel Rat Model of Angelman Syndrome with a Complete Ube3a Gene Deletion. Autism Research, 2020, 13, 397-409.	3.8	28
32	Cognitive deficits in the Snord116 deletion mouse model for Prader-Willi syndrome. Neurobiology of Learning and Memory, 2019, 165, 106874.	1.9	53
33	Pathogenic WDFY3 variants cause neurodevelopmental disorders and opposing effects on brain size. Brain, 2019, 142, 2617-2630.	7.6	31
34	Imprinting effects of UBE3A loss on synaptic gene networks and Wnt signaling pathways. Human Molecular Genetics, 2019, 28, 3842-3852.	2.9	9
35	Genetic backgrounds have unique seizure response profiles and behavioral outcomes following convulsant administration. Epilepsy and Behavior, 2019, 101, 106547.	1.7	25
36	Genetic mutations in Ca²⁺ signaling alter dendrite morphology and social approach in juvenile mice. Genes, Brain and Behavior, 2019, 18, e12526.	2.2	16

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37	Behavioral and neuroanatomical approaches in models of neurodevelopmental disorders: opportunities for translation. Current Opinion in Neurology, 2018, 31, 126-133.	3.6	27
38	SynDIG4/Prrt1 Is Required for Excitatory Synapse Development and Plasticity Underlying Cognitive Function. Cell Reports, 2018, 22, 2246-2253.	6.4	41
39	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
40	T49. Autism-Specific Maternal Autoantibodies Produce ASD Relevant Behaviors in a Mouse Model. Biological Psychiatry, 2018, 83, S147-S148.	1.3	3
41	Autistic traits in epilepsy models: Why, when and how?. Epilepsy Research, 2018, 144, 62-70.	1.6	13
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	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
45	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
46	Germline Chd8 haploinsufficiency alters brain development in mouse. Nature Neuroscience, 2017, 20, 1062-1073.	14.8	210
47	Replicable in vivo physiological and behavioral phenotypes of the Shank3B null mutant mouse model of autism. Molecular Autism, 2017, 8, 26.	4.9	135
48	Persistent neuroinflammation and cognitive impairment in a rat model of acute diisopropylfluorophosphate intoxication. Journal of Neuroinflammation, 2016, 13, 267.	7.2	71
49	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
50	Methodological Considerations for Optimizing and Validating Behavioral Assays. Current Protocols in Mouse Biology, 2016, 6, 364-379.	1.2	42
51	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
52	Translational Mouse Models of Autism: Advancing Toward Pharmacological Therapeutics. Current Topics in Behavioral Neurosciences, 2015, 28, 1-52.	1.7	100
53	Hippocampal Transcriptomic and Proteomic Alterations in the BTBR Mouse Model of Autism Spectrum Disorder. Frontiers in Physiology, 2015, 6, 324.	2.8	70
54	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

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55	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
56	Cognitive Abilities on Transitive Inference Using a Novel Touchscreen Technology for Mice. Cerebral Cortex, 2015, 25, 1133-1142.	2.9	39
57	Behavioral assessment of NIH Swiss mice acutely intoxicated with tetramethylenedisulfotetramine. Neurotoxicology and Teratology, 2015, 47, 36-45.	2.4	38
58	Long-term exposure to intranasal oxytocin in a mouse autism model. Translational Psychiatry, 2014, 4, e480-e480.	4.8	112
59	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
60	Modeling fragile X syndrome in the <i>Fmr1</i> knockout mouse. Intractable and Rare Diseases Research, 2014, 3, 118-133.	0.9	183
61	The promising trajectory of autism therapeutics discovery. Drug Discovery Today, 2014, 19, 838-844.	6.4	29
62	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
63	Influence of stimulant-induced hyperactivity on social approach in the BTBR mouse model of autism. Neuropharmacology, 2013, 68, 210-222.	4.1	35
64	AMPAKINE enhancement of social interaction in the BTBR mouse model of autism. Neuropharmacology, 2013, 64, 268-282.	4.1	98
65	Reduced Excitatory Neurotransmission and Mild Autism-Relevant Phenotypes in AdolescentShank3Null Mutant Mice. Journal of Neuroscience, 2012, 32, 6525-6541.	3.6	342
66	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
67	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
68	Low sociability in BTBR T+tf/J mice is independent of partner strain. Physiology and Behavior, 2012, 107, 649-662.	2.1	100
69	Autism-Relevant Social Abnormalities and Cognitive Deficits in Engrailed-2 Knockout Mice. PLoS ONE, 2012, 7, e40914.	2.5	143
70	Automated Threeâ€Chambered Social Approach Task for Mice. Current Protocols in Neuroscience, 2011, 56, Unit 8.26.	2.6	418
71	Sociability and motor functions in Shank1 mutant mice. Brain Research, 2011, 1380, 120-137.	2.2	206
72	Working memory deficits, increased anxiety-like traits, and seizure susceptibility in BDNF overexpressing mice. Learning and Memory, 2011, 18, 534-544.	1.3	108

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73	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
74	Behavioural phenotyping assays for mouse models of autism. Nature Reviews Neuroscience, 2010, 11, 490-502.	10.2	1,248
75	Low stress reactivity and neuroendocrine factors in the BTBR T+tf/J mouse model of autism. Neuroscience, 2010, 171, 1197-1208.	2.3	125
76	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
77	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