Gavin Rumbaugh

List of Publications by Year
in descending order

45 papers	2,868 citations	236925 25 h-index	233421 45 g-index
57 all docs	57 docs citations	57 times ranked	3782 citing authors

#	Article	IF	Citations
1	Pathogenic SYNGAP1 Mutations Impair Cognitive Development by Disrupting Maturation of Dendritic Spine Synapses. Cell, 2012, 151, 709-723.	28.9	313
2	SynGAP regulates synaptic strength and mitogen-activated protein kinases in cultured neurons. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4344-4351.	7.1	228
3	Distinct Synaptic and Extrasynaptic NMDA Receptors in Developing Cerebellar Granule Neurons. Journal of Neuroscience, 1999, 19, 10603-10610.	3.6	215
4	An interactive framework for whole-brain maps at cellular resolution. Nature Neuroscience, 2018, 21, 139-149.	14.8	204
5	Myosin IIb Regulates Actin Dynamics during Synaptic Plasticity and Memory Formation. Neuron, 2010, 67, 603-617.	8.1	192
6	Synapse-Associated Protein-97 Isoform-Specific Regulation of Surface AMPA Receptors and Synaptic Function in Cultured Neurons. Journal of Neuroscience, 2003, 23, 4567-4576.	3.6	162
7	Reduced Cognition in Syngap1 Mutants Is Caused by Isolated Damage within Developing Forebrain Excitatory Neurons. Neuron, 2014, 82, 1317-1333.	8.1	118
8	SYNGAP1 heterozygosity disrupts sensory processing by reducing touch-related activity within somatosensory cortex circuits. Nature Neuroscience, 2018, 21, 1-13.	14.8	113
9	Reduced Expression of the NMDA Receptor-Interacting Protein SynGAP Causes Behavioral Abnormalities that Model Symptoms of Schizophrenia. Neuropsychopharmacology, 2009, 34, 1659-1672.	5.4	106
10	Syngap1 Haploinsufficiency Damages a Postnatal Critical Period of Pyramidal Cell Structural Maturation Linked to Cortical Circuit Assembly. Biological Psychiatry, 2015, 77, 805-815.	1.3	102
11	SYNGAP1 Links the Maturation Rate of Excitatory Synapses to the Duration of Critical-Period Synaptic Plasticity. Journal of Neuroscience, 2013, 33, 10447-10452.	3.6	85
12	Pharmacological Selectivity Within Class I Histone Deacetylases Predicts Effects on Synaptic Function and Memory Rescue. Neuropsychopharmacology, 2015, 40, 2307-2316.	5.4	79
13	Methamphetamine-Associated Memory Is Regulated by a Writer and an Eraser of Permissive Histone Methylation. Biological Psychiatry, 2014, 76, 57-65.	1.3	76
14	Susceptibility and Resilience to Posttraumatic Stress Disorderâ€“like Behaviors in Inbred Mice. Biological Psychiatry, 2017, 82, 924-933.	1.3	75
15	Species-conserved SYNGAP1 phenotypes associated with neurodevelopmental disorders. Molecular and Cellular Neurosciences, 2018, 91, 140-150.	2.2	70
16	Neuronal death induced by misfolded prion protein is due to NAD+ depletion and can be relieved in vitro and in vivo by NAD+ replenishment. Brain, 2015, 138, 992-1008.	7.6	67
17	Regulation of Synapse Structure and Function by Distinct Myosin II Motors. Journal of Neuroscience, 2011, 31, 1448-1460.	3.6	62
18	Re-expression of SynGAP protein in adulthood improves translatable measures of brain function and behavior. ELife, 2019, 8, .	6.0	54

#	Article	IF	Citations
19	Selective, Retrieval-Independent Disruption of Methamphetamine-Associated Memory by Actin Depolymerization. Biological Psychiatry, 2014, 75, 96-104.	1.3	53
20	Atypical Endocannabinoid Signaling Initiates a New Form of Memory-Related Plasticity at a Cortical Input to Hippocampus. Cerebral Cortex, 2018, 28, 2253-2266.	2.9	50
21	Epigenetic Changes in the Brain: Measuring Global Histone Modifications. Methods in Molecular Biology, 2010, 670, 263-274.	0.9	41
22	Design, Optimization, and Study of Small Molecules That Target Tau Pre-mRNA and Affect Splicing. Journal of the American Chemical Society, 2020, 142, 8706-8727.	13.7	39
23	SYNGAP1Controls the Maturation of Dendrites, Synaptic Function, and Network Activity in Developing Human Neurons. Journal of Neuroscience, 2020, 40, 7980-7994.	3.6	38
24	The first international conference on SYNGAP1-related brain disorders: a stakeholder meeting of families, researchers, clinicians, and regulators. Journal of Neurodevelopmental Disorders, 2018, 10, 6.	3.1	36
25	Myosin II motor activity in the lateral amygdala is required for fear memory consolidation. Learning and Memory, 2012, 19, 9-14.	1.3	35
26	MicroRNA regulation of persistent stress-enhanced memory. Molecular Psychiatry, 2020, 25, 965-976.	7.9	27
27	SynGAP splice variants display heterogeneous spatioâ€temporal expression and subcellular distribution in the developing mammalian brain. Journal of Neurochemistry, 2020, 154, 618-634.	3.9	26
28	A Simple Procedure for Creating Scalable Phenotypic Screening Assays in Human Neurons. Scientific Reports, 2019, 9, 9000.	3.3	21
29	Prioritizing the development of mouse models for childhood brain disorders. Neuropharmacology, 2016, 100, 2-16.	4.1	19
30	Bioinformatic analysis of long-lasting transcriptional and translational changes in the basolateral amygdala following acute stress. PLoS ONE, 2019, 14, e0209846.	2.5	18
31	Nonmuscle myosin II inhibition disrupts methamphetamine-associated memory in females and adolescents. Neurobiology of Learning and Memory, 2017, 139, 109-116.	1.9	16
32	Improved Scalability of Neuron-Based Phenotypic Screening Assays for Therapeutic Discovery in Neuropsychiatric Disorders. Molecular Neuropsychiatry, 2017, 3, 141-150.	2.9	16
33	Inputâ€specific regulation of hippocampal circuit maturation by nonâ€muscle myosin <scp>IIB</scp>. Journal of Neurochemistry, 2015, 134, 429-444.	3.9	15
34	Memory disrupting effects of nonmuscle myosin II inhibition depend on the class of abused drug and brain region. Learning and Memory, 2017, 24, 70-75.	1.3	15
35	The role of nonmuscle myosin II in polydrug memories and memory reconsolidation. Learning and Memory, 2018, 25, 391-398.	1.3	11
36	Endogenous Syngap1 alpha splice forms promote cognitive function and seizure protection. ELife, 2022, 11, .	6.0	10

#	Article	IF	Citations
37	Syngap1 regulates experience-dependent cortical ensemble plasticity by promoting in vivo excitatory synapse strengthening. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	9
38	microRNA mir-598-3p mediates susceptibility to stress enhancement of remote fear memory. Learning and Memory, 2019, 26, 363-372.	1.3	8
39	Social stressâ€potentiated methamphetamine seeking. Addiction Biology, 2019, 24, 958-968.	2.6	7
40	Methamphetamine Learning Induces Persistent and Selective Nonmuscle Myosin II-Dependent Spine Motility in the Basolateral Amygdala. Journal of Neuroscience, 2020, 40, 2695-2707.	3.6	7
41	SynGAP is expressed in the murine suprachiasmatic nucleus and regulates circadianâ€gated locomotor activity and lightâ€entrainment capacity. European Journal of Neuroscience, 2021, 53, 732-749.	2.6	7
42	A Semi-High-Throughput Adaptation of the NADH-Coupled ATPase Assay for Screening Small Molecule Inhibitors. Journal of Visualized Experiments, 2019, , .	0.3	6
43	A simple and robust cell-based assay for the discovery of novel cytokinesis inhibitors. Journal of Biological Methods, 2020, 7, e136.	0.6	4
44	Discovery of Selective Inhibitors for In Vitro and In Vivo Interrogation of Skeletal Myosin II. ACS Chemical Biology, 2021, 16, 2164-2173.	3.4	2
45	Synapses Fight Over Glutamate Receptor 1. Journal of Neuroscience, 2005, 25, 8347-8348.	3.6	0