# 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 | Endogenous Syngap1 alpha splice forms promote cognitive function and seizure protection. ELife, 2022, 11, . | 6.0 | 10 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | MicroRNA regulation of persistent stress-enhanced memory. Molecular Psychiatry, 2020, 25, 965-976. | 7.9 | 27 |
| 6 | SYNGAP1Controls the Maturation of Dendrites, Synaptic Function, and Network Activity in Developing Human Neurons. Journal of Neuroscience, 2020, 40, 7980-7994. | 3.6 | 38 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | A simple and robust cell-based assay for the discovery of novel cytokinesis inhibitors. Journal of Biological Methods, 2020, 7, e136. | 0.6 | 4 |
| 11 | Social stressâ€potentiated methamphetamine seeking. Addiction Biology, 2019, 24, 958-968. | 2.6 | 7 |
| 12 | microRNA mir-598-3p mediates susceptibility to stress enhancement of remote fear memory. Learning and Memory, 2019, 26, 363-372. | 1.3 | 8 |
| 13 | A Semi-High-Throughput Adaptation of the NADH-Coupled ATPase Assay for Screening Small Molecule Inhibitors. Journal of Visualized Experiments, 2019, , . | 0.3 | 6 |
| 14 | A Simple Procedure for Creating Scalable Phenotypic Screening Assays in Human Neurons. Scientific Reports, 2019, 9, 9000. | 3.3 | 21 |
| 15 | Bioinformatic analysis of long-lasting transcriptional and translational changes in the basolateral amygdala following acute stress. PLoS ONE, 2019, 14, e0209846. | 2.5 | 18 |
| 16 | Re-expression of SynGAP protein in adulthood improves translatable measures of brain function and behavior. ELife, 2019, 8, . | 6.0 | 54 |
| 17 | Species-conserved SYNGAP1 phenotypes associated with neurodevelopmental disorders. Molecular and Cellular Neurosciences, 2018, 91, 140-150. | 2.2 | 70 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | An interactive framework for whole-brain maps at cellular resolution. Nature Neuroscience, 2018, 21, 139-149. | 14.8 | 204 |
| 20 | SYNGAP1 heterozygosity disrupts sensory processing by reducing touch-related activity within somatosensory cortex circuits. Nature Neuroscience, 2018, 21, 1-13. | 14.8 | 113 |
| 21 | 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 |
| 22 | The role of nonmuscle myosin II in polydrug memories and memory reconsolidation. Learning and Memory, 2018, 25, 391-398. | 1.3 | 11 |
| 23 | 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 |
| 24 | Nonmuscle myosin II inhibition disrupts methamphetamine-associated memory in females and adolescents. Neurobiology of Learning and Memory, 2017, 139, 109-116. | 1.9 | 16 |
| 25 | Susceptibility and Resilience to Posttraumatic Stress Disorderâ€“like Behaviors in Inbred Mice. Biological Psychiatry, 2017, 82, 924-933. | 1.3 | 75 |
| 26 | Improved Scalability of Neuron-Based Phenotypic Screening Assays for Therapeutic Discovery in Neuropsychiatric Disorders. Molecular Neuropsychiatry, 2017, 3, 141-150. | 2.9 | 16 |
| 27 | Prioritizing the development of mouse models for childhood brain disorders. Neuropharmacology, 2016, 100, 2-16. | 4.1 | 19 |
| 28 | Inputâ€specific regulation of hippocampal circuit maturation by nonâ€muscle myosin <scp>IIB</scp>. Journal of Neurochemistry, 2015, 134, 429-444. | 3.9 | 15 |
| 29 | 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 |
| 30 | Pharmacological Selectivity Within Class I Histone Deacetylases Predicts Effects on Synaptic Function and Memory Rescue. Neuropsychopharmacology, 2015, 40, 2307-2316. | 5.4 | 79 |
| 31 | 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 |
| 32 | Selective, Retrieval-Independent Disruption of Methamphetamine-Associated Memory by Actin Depolymerization. Biological Psychiatry, 2014, 75, 96-104. | 1.3 | 53 |
| 33 | Methamphetamine-Associated Memory Is Regulated by a Writer and an Eraser of Permissive Histone Methylation. Biological Psychiatry, 2014, 76, 57-65. | 1.3 | 76 |
| 34 | Reduced Cognition in Syngap1 Mutants Is Caused by Isolated Damage within Developing Forebrain Excitatory Neurons. Neuron, 2014, 82, 1317-1333. | 8.1 | 118 |
| 35 | 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 |
| 36 | Myosin II motor activity in the lateral amygdala is required for fear memory consolidation. Learning and Memory, 2012, 19, 9-14. | 1.3 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Pathogenic SYNGAP1 Mutations Impair Cognitive Development by Disrupting Maturation of Dendritic Spine Synapses. Cell, 2012, 151, 709-723. | 28.9 | 313 |
| 38 | Regulation of Synapse Structure and Function by Distinct Myosin II Motors. Journal of Neuroscience, 2011, 31, 1448-1460. | 3.6 | 62 |
| 39 | Myosin IIb Regulates Actin Dynamics during Synaptic Plasticity and Memory Formation. Neuron, 2010, 67, 603-617. | 8.1 | 192 |
| 40 | Epigenetic Changes in the Brain: Measuring Global Histone Modifications. Methods in Molecular Biology, 2010, 670, 263-274. | 0.9 | 41 |
| 41 | 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 |
| 42 | 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 |
| 43 | Synapses Fight Over Glutamate Receptor 1. Journal of Neuroscience, 2005, 25, 8347-8348. | 3.6 | 0 |
| 44 | 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 |
| 45 | Distinct Synaptic and Extrasynaptic NMDA Receptors in Developing Cerebellar Granule Neurons. Journal of Neuroscience, 1999, 19, 10603-10610. | 3.6 | 215 |