

# Gary Lynch

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

1,958  
citations

331670

21  
h-index

454955

30  
g-index

32  
all docs

32  
docs citations

32  
times ranked

2464  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Different Rho GTPase-dependent signaling pathways initiate sequential steps in the consolidation of long-term potentiation. <i>Journal of Cell Biology</i> , 2009, 186, 85-97.                          | 5.2 | 255       |
| 2  | Role of N-methyl-D-aspartate receptors in the induction of synaptic potentiation by burst stimulation patterned after the hippocampal $\theta$ -rhythm. <i>Brain Research</i> , 1988, 441, 111-118.     | 2.2 | 237       |
| 3  | Hippocampal Focal Knockout of CBP Affects Specific Histone Modifications, Long-Term Potentiation, and Long-Term Memory. <i>Neuropsychopharmacology</i> , 2011, 36, 1545-1556.                           | 5.4 | 207       |
| 4  | Development of glutamate binding sites and their regulation by calcium in rat hippocampus. <i>Developmental Brain Research</i> , 1981, 1, 37-48.  | 1.7 | 173       |
| 5  | Reduced Cognition in Syngap1 Mutants Is Caused by Isolated Damage within Developing Forebrain Excitatory Neurons. <i>Neuron</i> , 2014, 82, 1317-1333.  | 8.1 | 118       |
| 6  | Developmental changes in synaptic properties in hippocampus of neonatal rats. <i>Developmental Brain Research</i> , 1989, 49, 105-114.  | 1.7 | 112       |
| 7  | Memory-Related Synaptic Plasticity Is Sexually Dimorphic in Rodent Hippocampus. <i>Journal of Neuroscience</i> , 2018, 38, 7935-7951.   | 3.6 | 86        |
| 8  | Integrin Dynamics Produce a Delayed Stage of Long-Term Potentiation and Memory Consolidation. <i>Journal of Neuroscience</i> , 2012, 32, 12854-12861.   | 3.6 | 80        |
| 9  | Evidence of Mitochondrial Dysfunction within the Complex Genetic Etiology of Schizophrenia. <i>Molecular Neuropsychiatry</i> , 2015, 1, 201-219.  | 2.9 | 74        |
| 10 | A Primary Cortical Input to Hippocampus Expresses a Pathway-Specific and Endocannabinoid-Dependent Form of Long-Term Potentiation. <i>ENeuro</i> , 2016, 3, ENEURO.0160-16.2016.                        | 1.9 | 65        |
| 11 | Long-Term Memory Deficits are Associated with Elevated Synaptic ERK1/2 Activation and Reversed by mGluR5 Antagonism in an Animal Model of Autism. <i>Neuropsychopharmacology</i> , 2014, 39, 1664-1673. | 5.4 | 61        |
| 12 | Chronic Ampakine Treatments Stimulate Dendritic Growth and Promote Learning in Middle-Aged Rats. <i>Journal of Neuroscience</i> , 2016, 36, 1636-1646.  | 3.6 | 52        |
| 13 | Atypical Endocannabinoid Signaling Initiates a New Form of Memory-Related Plasticity at a Cortical Input to Hippocampus. <i>Cerebral Cortex</i> , 2018, 28, 2253-2266.                                  | 2.9 | 50        |
| 14 | Spaced training rescues memory and ERK1/2 signaling in fragile X syndrome model mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16907-16912.  | 7.1 | 49        |
| 15 | Mechanisms of white matter change induced by meditation training. <i>Frontiers in Psychology</i> , 2014, 5, 1220.   | 2.1 | 45        |
| 16 | Synaptic Abnormalities in the Infralimbic Cortex of a Model of Congenital Depression. <i>Journal of Neuroscience</i> , 2013, 33, 13441-13448.   | 3.6 | 35        |
| 17 | Treating a novel plasticity defect rescues episodic memory in Fragile X model mice. <i>Molecular Psychiatry</i> , 2018, 23, 1798-1806.  | 7.9 | 32        |
| 18 | Medial habenula cholinergic signaling regulates cocaine-associated relapse-like behavior. <i>Addiction Biology</i> , 2019, 24, 403-413.   | 2.6 | 29        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Estrogen's Effects on Excitatory Synaptic Transmission Entail Integrin and TrkB Transactivation and Depend Upon $\beta$ 1-integrin function. <i>Neuropsychopharmacology</i> , 2016, 41, 2723-2732.      | 5.4  | 26        |
| 20 | Protein synthesis and consolidation of memory-related synaptic changes. <i>Brain Research</i> , 2015, 1621, 62-72.  | 2.2  | 25        |
| 21 | Pronounced differences in signal processing and synaptic plasticity between piriform's hippocampal network stages: a prominent role for adenosine. <i>Journal of Physiology</i> , 2015, 593, 2889-2907. | 2.9  | 24        |
| 22 | Prepubescent female rodents have enhanced hippocampal LTP and learning relative to males, reversing in adulthood as inhibition increases. <i>Nature Neuroscience</i> , 2022, 25, 180-190.               | 14.8 | 24        |
| 23 | Sex differences in synaptic plasticity underlying learning. <i>Journal of Neuroscience Research</i> , 2023, 101, 764-782.   | 2.9  | 22        |
| 24 | Acquisition of temporal order requires an intact CA3 commissural/associational (C/A) feedback system in mice. <i>Communications Biology</i> , 2019, 2, 251.   | 4.4  | 16        |
| 25 | A TrkB agonist and ampakine rescue synaptic plasticity and multiple forms of memory in a mouse model of intellectual disability. <i>Neurobiology of Disease</i> , 2020, 134, 104604.                    | 4.4  | 16        |
| 26 | Patch clamp-assisted single neuron lipidomics. <i>Scientific Reports</i> , 2017, 7, 5318.   | 3.3  | 13        |
| 27 | Epigenetic regulation of immediate-early gene Nr4a2/Nurr1 in the medial habenula during reinstatement of cocaine-associated behavior. <i>Neuropharmacology</i> , 2019, 153, 13-19.                      | 4.1  | 13        |
| 28 | Endogenous Syngap1 alpha splice forms promote cognitive function and seizure protection. <i>ELife</i> , 2022, 11, .   | 6.0  | 10        |
| 29 | Persistent sexually dimorphic effects of adolescent THC exposure on hippocampal synaptic plasticity and episodic memory in rodents. <i>Neurobiology of Disease</i> , 2022, 162, 105565.                 | 4.4  | 7         |
| 30 | Experiential learning in rodents: past experience enables rapid learning and localized encoding in hippocampus. <i>Learning and Memory</i> , 2017, 24, 569-579.   | 1.3  | 2         |