

Mark R Mayford

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

10,995
citations

87723

38
h-index

143772

57
g-index

99
all docs

99
docs citations

99
times ranked

11395
citing authors

#	ARTICLE	IF	CITATIONS
1	Compulsive Alcohol Seeking and Relapse: Central Role of Conditioning Factors Associated with Alleviation of Withdrawal States by Alcohol. <i>British Journal of Pharmacology</i> , 2022, , .	2.7	2
2	Optogenetic reactivation of memory ensembles in the retrosplenial cortex induces systems consolidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8576-8581.	3.3	105
3	Differential fear conditioning generates prefrontal neural ensembles of safety signals. <i>Behavioural Brain Research</i> , 2019, 360, 169-184.	1.2	26
4	A Functionally Defined <i>In Vivo</i> Astrocyte Population Identified by c-Fos Activation in a Mouse Model of Multiple Sclerosis Modulated by S1P Signaling: Immediate-Early Astrocytes (<i>ieAstrocytes</i>). <i>ENeuro</i> , 2018, 5, ENEURO.0239-18.2018.	0.9	46
5	A Comparative Analysis of the Molecular Mechanisms Contributing to Implicit and Explicit Memory Storage in <i>Aplysia</i> and in the Hippocampus \hat{t} . , 2017, , 5-31.		4
6	Distinct memory engrams in the infralimbic cortex of rats control opposing environmental actions on a learned behavior. <i>ELife</i> , 2016, 5, .	2.8	46
7	A shared neural ensemble links distinct contextual memories encoded close in time. <i>Nature</i> , 2016, 534, 115-118.	13.7	756
8	Chronic fluoxetine dissociates contextual from auditory fear memory. <i>Neuroscience Letters</i> , 2016, 632, 152-156.	1.0	8
9	Exploring Memory Representations with Activity-Based Genetics. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a021832.	2.3	34
10	Memory Retrieval in Mice and Men. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a021790.	2.3	36
11	A transgenic mouse line for collecting ribosome-bound mRNA using the tetracycline transactivator system. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 82.	1.4	14
12	The Molecular and Systems Biology of Memory. <i>Cell</i> , 2014, 157, 163-186.	13.5	833
13	The search for a hippocampal engram. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130161.	1.8	38
14	Direct Reactivation of a Coherent Neocortical Memory of Context. <i>Neuron</i> , 2014, 84, 432-441.	3.8	300
15	Transgenically Targeted Rabies Virus Demonstrates a Major Monosynaptic Projection from Hippocampal Area CA2 to Medial Entorhinal Layer II Neurons. <i>Journal of Neuroscience</i> , 2013, 33, 14889-14898.	1.7	89
16	Inducible control of gene expression with destabilized Cre. <i>Nature Methods</i> , 2013, 10, 1085-1088.	9.0	92
17	Empathic Fear Responses in Mice Are Triggered by Recognition of a Shared Experience. <i>PLoS ONE</i> , 2013, 8, e74609.	1.1	71
18	Selection of distinct populations of dentate granule cells in response to inputs as a mechanism for pattern separation in mice. <i>ELife</i> , 2013, 2, e00312.	2.8	140

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19	AMPA-Independent Effect of Striatal $\hat{\pm}$ CaMKII Promotes the Sensitization of Cocaine Reward. <i>Journal of Neuroscience</i> , 2012, 32, 6578-6586.	1.7	45
20	New approaches to neural circuits in behavior. <i>Learning and Memory</i> , 2012, 19, 385-390.	0.5	12
21	Elimination of Dendritic Spines with Long-Term Memory Is Specific to Active Circuits. <i>Journal of Neuroscience</i> , 2012, 32, 12570-12578.	1.7	86
22	Generation of a Synthetic Memory Trace. <i>Science</i> , 2012, 335, 1513-1516.	6.0	335
23	Synapses and Memory Storage. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a005751-a005751.	2.3	366
24	Locally Synchronized Synaptic Inputs. <i>Science</i> , 2012, 335, 353-356.	6.0	280
25	Navigating uncertain waters. <i>Nature Neuroscience</i> , 2012, 15, 1056-1057.	7.1	2
26	Characterization of NMDAR-Independent Learning in the Hippocampus. <i>Frontiers in Behavioral Neuroscience</i> , 2011, 5, 28.	1.0	55
27	Cognition Enhancement Strategies: Figure 1.. <i>Journal of Neuroscience</i> , 2010, 30, 14987-14992.	1.7	42
28	Genetic control of active neural circuits. <i>Frontiers in Molecular Neuroscience</i> , 2009, 2, 27.	1.4	39
29	Impaired maturation of dendritic spines without disorganization of cortical cell layers in mice lacking NRG1/ErbB signaling in the central nervous system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4507-4512.	3.3	178
30	Spine-Type-Specific Recruitment of Newly Synthesized AMPA Receptors with Learning. <i>Science</i> , 2008, 319, 1104-1107.	6.0	262
31	Quantitative Proteomics and Protein Network Analysis of Hippocampal Synapses of CaMKII $\hat{\pm}$ Mutant Mice. <i>Journal of Proteome Research</i> , 2007, 6, 3127-3133.	1.8	49
32	The influence of Pavlovian cues on instrumental performance is mediated by CaMKII activity in the striatum. <i>European Journal of Neuroscience</i> , 2007, 25, 2491-2497.	1.2	28
33	An RNAi-based genetic screen for oxidative stress resistance reveals retinol saturase as a mediator of stress resistance. <i>Free Radical Biology and Medicine</i> , 2007, 43, 781-788.	1.3	30
34	Protein kinase signaling in synaptic plasticity and memory. <i>Current Opinion in Neurobiology</i> , 2007, 17, 313-317.	2.0	29
35	Localization of a Stable Neural Correlate of Associative Memory. <i>Science</i> , 2007, 317, 1230-1233.	6.0	667
36	CaMKII Activation in the Entorhinal Cortex Disrupts Previously Encoded Spatial Memory. <i>Neuron</i> , 2006, 50, 309-318.	3.8	97

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37	A mutant mouse with a highly specific contextual fear-conditioning deficit found in an N-ethyl-N-nitrosourea (ENU) mutagenesis screen. <i>Learning and Memory</i> , 2006, 13, 143-149.	0.5	33
38	Epigenetic Mechanisms and Gene Networks in the Nervous System. <i>Journal of Neuroscience</i> , 2005, 25, 10379-10389.	1.7	128
39	Nuclear Calcium/Calmodulin Regulates Memory Consolidation. <i>Journal of Neuroscience</i> , 2004, 24, 10858-10867.	1.7	110
40	CBP Histone Acetyltransferase Activity Is a Critical Component of Memory Consolidation. <i>Neuron</i> , 2004, 42, 961-972.	3.8	764
41	Disruption of Dendritic Translation of CaMKII β Impairs Stabilization of Synaptic Plasticity and Memory Consolidation. <i>Neuron</i> , 2002, 36, 507-519.	3.8	482
42	Transgenic Calmodulin-Dependent Protein Kinase II Activation: Dose-Dependent Effects on Synaptic Plasticity, Learning, and Memory. <i>Journal of Neuroscience</i> , 2002, 22, 5719-5726.	1.7	92
43	The effect of autonomous alpha-CaMKII expression on sensory responses and experience-dependent plasticity in mouse barrel cortex. <i>Neuropharmacology</i> , 2001, 41, 771-778.	2.0	20
44	Olfactory based spatial learning in neonatal mice and its dependence on CaMKII. <i>NeuroReport</i> , 2000, 11, 1051-1055.	0.6	19
45	Genetic approaches to memory storage. <i>Trends in Genetics</i> , 1999, 15, 463-470.	2.9	248
46	Cellular and molecular mechanisms of memory: the LTP connection. <i>Current Opinion in Genetics and Development</i> , 1999, 9, 333-337.	1.5	38
47	Chapter 3.1.4 Regulated temporal and spatial expression of mutants of CaMKII and calcineurin with the tetracycline-controlled transactivator (tTA) and reverse tTA (rtTA) systems. <i>Handbook of Behavioral Neuroscience</i> , 1999, 13, 291-304.	0.0	1
48	Inducible and Reversible Gene Expression with the rtTA System for the Study of Memory. <i>Neuron</i> , 1998, 21, 257-265.	3.8	239
49	Restricted and Regulated Overexpression Reveals Calcineurin as a Key Component in the Transition from Short-Term to Long-Term Memory. <i>Cell</i> , 1998, 92, 39-49.	13.5	336
50	Memory and behavior: a second generation of genetically modified mice. <i>Current Biology</i> , 1997, 7, R580-R589.	1.8	55
51	Subregion- and Cell Type-Restricted Gene Knockout in Mouse Brain. <i>Cell</i> , 1996, 87, 1317-1326.	13.5	1,207
52	Mice Expressing Activated CaMKII Lack Low Frequency LTP and Do Not Form Stable Place Cells in the CA1 Region of the Hippocampus. <i>Cell</i> , 1996, 87, 1351-1361.	13.5	243
53	Transgenic approaches to cognition. <i>Current Opinion in Neurobiology</i> , 1995, 5, 141-148.	2.0	101
54	CaMKII regulates the frequency-response function of hippocampal synapses for the production of both LTD and LTP. <i>Cell</i> , 1995, 81, 891-904.	13.5	572

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55	Impairment of spatial but not contextual memory in CaMKII mutant mice with a selective loss of hippocampal ltp in the range of the θ frequency. <i>Cell</i> , 1995, 81, 905-915.	13.5	470
56	ermC leader peptide. <i>Journal of Molecular Biology</i> , 1989, 206, 69-79.	2.0	75
57	Messenger RNA from <i>Staphylococcus aureus</i> that specifies macrolide-lincosamide-streptogramin resistance demonstration of its conformations and of the leader peptide it encodes. <i>Journal of Molecular Biology</i> , 1985, 185, 769-780.	2.0	38
58	Ca ²⁺ /calmodulin-dependent protein kinase and neuronal function. , 0, , 149-177.		0