

Thomas J Mchugh

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

7,337
citations

117625

34
h-index

102487

66
g-index

84
all docs

84
docs citations

84
times ranked

9311
citing authors

#	ARTICLE	IF	CITATIONS
1	K ⁺ efflux through postsynaptic NMDA receptors suppresses local astrocytic glutamate uptake. <i>Glia</i> , 2022, 70, 961-974.	4.9	14
2	The impact of stress on the hippocampal spatial code. <i>Trends in Neurosciences</i> , 2022, 45, 120-132.	8.6	12
3	Amylin-Calcitonin receptor signaling in the medial preoptic area mediates affiliative social behaviors in female mice. <i>Nature Communications</i> , 2022, 13, 709.	12.8	19
4	Local circuit allowing hypothalamic control of hippocampal area CA2 activity and consequences for CA1. <i>ELife</i> , 2021, 10, .	6.0	22
5	Stress enhances hippocampal neuronal synchrony and alters ripple-spike interaction. <i>Neurobiology of Stress</i> , 2021, 14, 100327.	4.0	15
6	Brain-specific heterozygous loss-of-function of ATP2A2, endoplasmic reticulum Ca ²⁺ pump responsible for Darier's disease, causes behavioral abnormalities and a hyper-dopaminergic state. <i>Human Molecular Genetics</i> , 2021, 30, 1762-1772.	2.9	18
7	Calcitonin receptor signaling in the medial preoptic area enables risk-taking maternal care. <i>Cell Reports</i> , 2021, 35, 109204.	6.4	32
8	Differential Impact of Acute and Chronic Stress on CA1 Spatial Coding and Gamma Oscillations. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 710725.	2.0	11
9	CA2 inhibition reduces the precision of hippocampal assembly reactivation. <i>Neuron</i> , 2021, 109, 3674-3687.e7.	8.1	14
10	Lateralization of CA1 assemblies in the absence of CA3 input. <i>Nature Communications</i> , 2021, 12, 6114.	12.8	9
11	Stepwise synaptic plasticity events drive the early phase of memory consolidation. <i>Science</i> , 2021, 374, 857-863.	12.6	67
12	CA2: A Highly Connected Intrahippocampal Relay. <i>Annual Review of Neuroscience</i> , 2020, 43, 55-72.	10.7	33
13	A hypothalamic novelty signal modulates hippocampal memory. <i>Nature</i> , 2020, 586, 270-274.	27.8	121
14	An Integrated Index: Engrams, Place Cells, and Hippocampal Memory. <i>Neuron</i> , 2020, 107, 805-820.	8.1	86
15	Diffusible GRAPHIC to visualize morphology of cells after specific cell-cell contact. <i>Scientific Reports</i> , 2020, 10, 14437.	3.3	8
16	Further-reaching optogenetics. <i>Nature Biomedical Engineering</i> , 2020, 4, 1028-1029.	22.5	4
17	Two Functionally Distinct Serotonergic Projections into Hippocampus. <i>Journal of Neuroscience</i> , 2020, 40, 4936-4944.	3.6	29
18	Structure of cortical network activity across natural wake and sleep states in mice. <i>PLoS ONE</i> , 2020, 15, e0233561.	2.5	2

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19	Sparse Activity of Hippocampal Adult-Born Neurons during REM Sleep Is Necessary for Memory Consolidation. <i>Neuron</i> , 2020, 107, 552-565.e10.	8.1	73
20	Technologies advancing neuroscience. <i>Neuroscience Research</i> , 2020, 152, 1-2.	1.9	1
21	Distinct temporal integration of noradrenaline signaling by astrocytic second messengers during vigilance. <i>Nature Communications</i> , 2020, 11, 471.	12.8	102
22	The hippocampus encodes delay and value information during delay-discounting decision making. <i>ELife</i> , 2020, 9, .	6.0	18
23	Genetically Encoded Fluorescent Indicator GRAPHIC Delineates Intercellular Connections. <i>IScience</i> , 2019, 15, 28-38.	4.1	21
24	Gamma Entrainment Binds Higher-Order Brain Regions and Offers Neuroprotection. <i>Neuron</i> , 2019, 102, 929-943.e8.	8.1	252
25	Visualization of Intra-neuronal Motor Protein Transport through Upconversion Microscopy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9262-9268.	13.8	52
26	Visualization of Intra-neuronal Motor Protein Transport through Upconversion Microscopy. <i>Angewandte Chemie</i> , 2019, 131, 9363-9369.	2.0	34
27	Memory: Sequences Take Time. <i>Current Biology</i> , 2019, 29, R158-R160.	3.9	0
28	Routing Hippocampal Information Flow through Parvalbumin Interneuron Plasticity in Area CA2. <i>Cell Reports</i> , 2019, 27, 86-98.e3.	6.4	34
29	Physiological Signature of Memory Age in the Prefrontal-Hippocampal Circuit. <i>Cell Reports</i> , 2019, 29, 3835-3846.e5.	6.4	30
30	Near-infrared deep brain stimulation via upconversion nanoparticle-mediated optogenetics. , 2019, , .		0
31	Single-cell bioluminescence imaging of deep tissue in freely moving animals. <i>Science</i> , 2018, 359, 935-939.	12.6	319
32	A role for CA3 in social recognition memory. <i>Behavioural Brain Research</i> , 2018, 354, 22-30.	2.2	78
33	Near-infrared deep brain stimulation via upconversion nanoparticle-mediated optogenetics. <i>Science</i> , 2018, 359, 679-684.	12.6	856
34	The Hippocampal Engram as a Memory Index. <i>Journal of Experimental Neuroscience</i> , 2018, 12, 117906951881594.	2.3	30
35	A dopaminergic switch for fear to safety transitions. <i>Nature Communications</i> , 2018, 9, 2483.	12.8	128
36	Alterations of in vivo CA1 network activity in Dp(16)1Yey Down syndrome model mice. <i>ELife</i> , 2018, 7, .	6.0	21

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37	The hippocampal engram maps experience but not place. <i>Science</i> , 2018, 361, 392-397.	12.6	158
38	Inducible Knockout of the Cyclin-Dependent Kinase 5 Activator p35 Alters Hippocampal Spatial Coding and Neuronal Excitability. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 138.	3.7	4
39	Altered hippocampal replay is associated with memory impairment in mice heterozygous for the Scn2a gene. <i>Nature Neuroscience</i> , 2018, 21, 996-1003.	14.8	60
40	Schizophrenia-like phenotypes in mice with NMDA receptor ablation in intralaminar thalamic nucleus cells and gene therapy-based reversal in adults. <i>Translational Psychiatry</i> , 2017, 7, e1047-e1047.	4.8	21
41	Chronic Loss of CA2 Transmission Leads to Hippocampal Hyperexcitability. <i>Neuron</i> , 2017, 94, 642-655.e9.	8.1	92
42	Noradrenergic modulation of evoked dopamine release and pH shift in the mouse dorsal hippocampus and ventral striatum. <i>Brain Research</i> , 2017, 1657, 74-86.	2.2	7
43	Orexin modulates behavioral fear expression through the locus coeruleus. <i>Nature Communications</i> , 2017, 8, 1606.	12.8	89
44	Top-down cortical input during NREM sleep consolidates perceptual memory. <i>Science</i> , 2016, 352, 1315-1318.	12.6	120
45	Silencing CA3 disrupts temporal coding in the CA1 ensemble. <i>Nature Neuroscience</i> , 2016, 19, 945-951.	14.8	101
46	CA3 Synaptic Silencing Attenuates Kainic Acid-Induced Seizures and Hippocampal Network Oscillations. <i>ENeuro</i> , 2016, 3, ENEURO.0003-16.2016.	1.9	27
47	Distinct preopticâ€‹scp>BST</scp> nuclei dissociate paternal and infanticidal behavior in mice. <i>EMBO Journal</i> , 2015, 34, 2652-2670.	7.8	101
48	A video based feedback system for control of an active commutator during behavioral physiology. <i>Molecular Brain</i> , 2015, 8, 61.	2.6	1
49	The dynamic impact of repeated stress on the hippocampal spatial map. <i>Hippocampus</i> , 2015, 25, 38-50.	1.9	32
50	Inhibiting the Activity of CA1 Hippocampal Neurons Prevents the Recall of Contextual Fear Memory in Inducible ArchT Transgenic Mice. <i>PLoS ONE</i> , 2015, 10, e0130163.	2.5	11
51	The Hippocampal CA2 Ensemble Is Sensitive to Contextual Change. <i>Journal of Neuroscience</i> , 2014, 34, 3056-3066.	3.6	77
52	Differential Contribution of Hippocampal Subfields to Components of Associative Taste Learning. <i>Journal of Neuroscience</i> , 2014, 34, 11007-11015.	3.6	30
53	Retrograde Synaptic Signaling Mediated by K+ Efflux through Postsynaptic NMDA Receptors. <i>Cell Reports</i> , 2013, 5, 941-951.	6.4	68
54	The Synchronous Activity of Lateral Habenular Neurons Is Essential for Regulating Hippocampal Theta Oscillation. <i>Journal of Neuroscience</i> , 2013, 33, 8909-8921.	3.6	69

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55	Backpropagating Action Potentials Enable Detection of Extrasynaptic Glutamate by NMDA Receptors. Cell Reports, 2012, 1, 495-505.	6.4	54
56	Young Dentate Granule Cells Mediate Pattern Separation, whereas Old Granule Cells Facilitate Pattern Completion. Cell, 2012, 149, 188-201.	28.9	710
57	NMDA signaling in CA1 mediates selectively the spatial component of episodic memory. Learning and Memory, 2012, 19, 164-169.	1.3	41
58	Memory Circuits in the Hippocampus. , 2012, , 307-342.		0
59	Phasic reward responses in the monkey striatum as detected by voltammetry with diamond microelectrodes. Neuroscience Research, 2011, 71, 49-62.	1.9	48
60	Updating hippocampal representations: CA2 joins the circuit. Trends in Neurosciences, 2011, 34, 526-535.	8.6	112
61	Presynaptic m1 muscarinic receptors are necessary for mGluR long-term depression in the hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1618-1623.	7.1	52
62	CA3 NMDA receptors are required for the rapid formation of a salient contextual representation. Hippocampus, 2009, 19, 1153-1158.	1.9	54
63	Hippocampal CA3 Output Is Crucial for Ripple-Associated Reactivation and Consolidation of Memory. Neuron, 2009, 62, 781-787.	8.1	239
64	The Ins and Outs of Hippocampal Circuits. Neuron, 2008, 57, 175-177.	8.1	7
65	Transgenic Inhibition of Synaptic Transmission Reveals Role of CA3 Output in Hippocampal Learning. Science, 2008, 319, 1260-1264.	12.6	414
66	Molecular and Circuit Mechanisms for Hippocampal Learning. , 2008, , 13-19.		1
67	Spatial exploration is required for the formation of contextual fear memory.. Behavioral Neuroscience, 2007, 121, 335-339.	1.2	32
68	Dentate Gyrus NMDA Receptors Mediate Rapid Pattern Separation in the Hippocampal Network. Science, 2007, 317, 94-99.	12.6	841
69	NMDA receptors, place cells and hippocampal spatial memory. Nature Reviews Neuroscience, 2004, 5, 361-372.	10.2	519
70	Impaired Hippocampal Representation of Space in CA1-Specific NMDAR1 Knockout Mice. Cell, 1996, 87, 1339-1349.	28.9	561
71	Differential Contributions of Hippocampus and mPFC to Cost-Benefit Valuation. SSRN Electronic Journal, 0, , .	0.4	0
72	Physiological Signature of Memory Age in the Prefrontal-Hippocampal Circuit. SSRN Electronic Journal, 0, , .	0.4	0