

Matthew R Holahan

List of Publications by Year in descending order

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74
papers

2,409
citations

218677

26
h-index

214800

47
g-index

75
all docs

75
docs citations

75
times ranked

2917
citing authors

#	ARTICLE	IF	CITATIONS
1	Response-reinforcement learning is dependent on N-methyl-D-aspartate receptor activation in the nucleus accumbens core. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 12174-12179.	7.1	289
2	Injections of nociceptin into nucleus accumbens shell or ventromedial hypothalamic nucleus increase food intake. <i>NeuroReport</i> , 1997, 8, 423-426.	1.2	141
3	A Shift from a Pivotal to Supporting Role for the Growth-Associated Protein (GAP-43) in the Coordination of Axonal Structural and Functional Plasticity. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 266.	3.7	117
4	N-methyl-D-aspartate receptor-dependent plasticity within a distributed corticostriatal network mediates appetitive instrumental learning. <i>Behavioral Neuroscience</i> , 2000, 114, 84-98.	1.2	104
5	Understanding the neuroinflammatory response following concussion to develop treatment strategies. <i>Frontiers in Cellular Neuroscience</i> , 2012, 6, 58.	3.7	101
6	Appetitive Instrumental Learning Is Impaired by Inhibition of cAMP-Dependent Protein Kinase within the Nucleus Accumbens. <i>Neurobiology of Learning and Memory</i> , 2002, 77, 44-62.	1.9	86
7	Acute postnatal exposure to di(2-ethylhexyl) phthalate adversely impacts hippocampal development in the male rat. <i>Neuroscience</i> , 2011, 193, 100-108.	2.3	69
8	Spatial learning induces presynaptic structural remodeling in the hippocampal mossy fiber system of two rat strains. <i>Hippocampus</i> , 2006, 16, 560-570.	1.9	66
9	Social Memory and the Role of the Hippocampal CA2 Region. <i>Frontiers in Behavioral Neuroscience</i> , 2019, 13, 233.	2.0	65
10	N-methyl-D-aspartate receptor-dependent plasticity within a distributed corticostriatal network mediates appetitive instrumental learning. <i>Behavioral Neuroscience</i> , 2000, 114, 84-98.	1.2	63
11	NMDA-receptor blockade by CPP impairs post-training consolidation of a rapidly acquired spatial representation in rat hippocampus. <i>European Journal of Neuroscience</i> , 2005, 22, 1201-1213.	2.6	61
12	Phthalates and neurotoxic effects on hippocampal network plasticity. <i>NeuroToxicology</i> , 2015, 48, 21-34.	3.0	60
13	Aripiprazole, A Drug that Displays Partial Agonism and Functional Selectivity. <i>Current Neuropharmacology</i> , 2017, 15, 1192-1207.	2.9	60
14	Morphine-associated environmental cues elicit conditioned gene expression. <i>Synapse</i> , 2000, 37, 146-158.	1.2	59
15	Microinfusion of corticotropin-releasing factor into the nucleus accumbens shell results in increased behavioral arousal and oral motor activity. <i>Psychopharmacology</i> , 1997, 130, 189-196.	3.1	56
16	Aptamers as Promising Molecular Recognition Elements for Diagnostics and Therapeutics in the Central Nervous System. <i>Nucleic Acid Therapeutics</i> , 2014, 24, 388-404.	3.6	52
17	Reduced Hippocampal Dendritic Spine Density and BDNF Expression following Acute Postnatal Exposure to Di(2-Ethylhexyl) Phthalate in Male Long Evans Rats. <i>PLoS ONE</i> , 2014, 9, e109522.	2.5	51
18	GAP-43 gene expression regulates information storage. <i>Learning and Memory</i> , 2007, 14, 407-415.	1.3	48

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19	A Pharmacological Analysis of the Substrates Underlying Conditioned Feeding Induced by Repeated Opioid Stimulation of the Nucleus Accumbens. <i>Neuropsychopharmacology</i> , 2000, 23, 455-467.	5.4	47
20	Conditioned Memory Modulation, Freezing, and Avoidance as Measures of Amygdala-Mediated Conditioned Fear. <i>Neurobiology of Learning and Memory</i> , 2002, 77, 250-275.	1.9	47
21	The Use of Pigs as a Translational Model for Studying Neurodegenerative Diseases. <i>Frontiers in Physiology</i> , 2019, 10, 838.	2.8	42
22	Expansion and retraction of hippocampal mossy fibers during postweaning development: Strain-specific effects of NMDA receptor blockade. <i>Hippocampus</i> , 2007, 17, 58-67.	1.9	35
23	Amygdala c-Fos induction corresponds to unconditioned and conditioned aversive stimuli but not to freezing. <i>Behavioural Brain Research</i> , 2003, 152, 109-20.	2.2	34
24	The protein kinase C phosphorylation site on GAP43 differentially regulates information storage. <i>Hippocampus</i> , 2008, 18, 1099-1102.	1.9	34
25	Enhanced reward-related responding following cholera toxin infusion into the nucleus accumbens. <i>Synapse</i> , 1997, 26, 46-54.	1.2	30
26	Post-translational synaptic protein modification as substrate for long-lasting, remote memory: An initial test. <i>Hippocampus</i> , 2007, 17, 93-97.	1.9	30
27	Lidocaine injections targeting CA3 hippocampus impair long-term spatial memory and prevent learning-induced mossy fiber remodeling. <i>Hippocampus</i> , 2011, 21, 532-540.	1.9	25
28	Amygdala Inactivation Blocks Expression of Conditioned Memory Modulation and the Promotion of Avoidance and Freezing. <i>Behavioral Neuroscience</i> , 2004, 118, 24-35.	1.2	25
29	An examination of early neural and cognitive alterations in hippocampal-spatial function of ghrelin receptor-deficient rats. <i>Behavioural Brain Research</i> , 2014, 264, 105-115.	2.2	23
30	Preadolescent Phthalate (DEHP) Exposure Is Associated With Elevated Locomotor Activity and Reward-Related Behavior and a Reduced Number of Tyrosine Hydroxylase Positive Neurons in Post-Adolescent Male and Female Rats. <i>Toxicological Sciences</i> , 2018, 165, 512-530.	3.1	23
31	Intra-Amygdala Muscimol Injections Impair Freezing and Place Avoidance in Aversive Contextual Conditioning. <i>Learning and Memory</i> , 2004, 11, 436-446.	1.3	22
32	Effect of juvenile pretraining on adolescent structural hippocampal attributes as a substrate for enhanced spatial performance. <i>Learning and Memory</i> , 2010, 17, 344-354.	1.3	22
33	The roles of hippocampal microRNAs in response to acute postnatal exposure to di(2-ethylhexyl) phthalate in female and male rats. <i>NeuroToxicology</i> , 2017, 59, 98-104.	3.0	22
34	In Vivo Use of a Multi-DNA Aptamer-Based Payload/Targeting System To Study Dopamine Dysregulation in the Central Nervous System. <i>ACS Chemical Neuroscience</i> , 2019, 10, 371-383.	3.5	21
35	Impairment in long-term retention but not short-term performance on a water maze reversal task following hippocampal or mediodorsal striatal n-methyl-d-aspartate receptor blockade. <i>Behavioral Neuroscience</i> , 2005, 119, 1563-1571.	1.2	20
36	Circannual changes in stress and feeding hormones and their effect on food-seeking behaviors. <i>Frontiers in Neuroscience</i> , 2013, 7, 140.	2.8	20

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37	Intra-Accumbens Injection of a Dopamine Aptamer Abates MK-801-Induced Cognitive Dysfunction in a Model of Schizophrenia. <i>PLoS ONE</i> , 2011, 6, e22239.	2.5	19
38	GAP-43 in synaptic plasticity: molecular perspectives. <i>Research and Reports in Biochemistry</i> , 0, , 137.	1.6	19
39	The impact of multiple memory formation on dendritic complexity in the hippocampus and anterior cingulate cortex assessed at recent and remote time points. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 128.	2.0	18
40	Self-Reported Mild Traumatic Brain Injuries in Relation to Rumination and Depressive Symptoms. <i>Clinical Journal of Sport Medicine</i> , 2017, Publish Ahead of Print, 494-499.	1.8	17
41	Involuntary, unreinforced (pure) spatial learning is impaired by fimbria-fornix but not by dorsal hippocampus lesions. <i>Hippocampus</i> , 2003, 13, 324-333.	1.9	16
42	Dopamine-mediated MK-801-induced elevation in food-based extinction responding in rats and associated changes in region-specific phosphorylated ERK. <i>Psychopharmacology</i> , 2010, 212, 393-403.	3.1	16
43	The use of sequential hippocampal-dependent and -non-dependent tasks to study the activation profile of the anterior cingulate cortex during recent and remote memory tests. <i>Neurobiology of Learning and Memory</i> , 2013, 106, 334-342.	1.9	16
44	Altered Hippocampal Lipid Profile Following Acute Postnatal Exposure to Di(2-Ethylhexyl) Phthalate in Rats. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 13542-13559.	2.6	15
45	Attenuation of MK-801-induced behavioral perseveration by typical and atypical antipsychotic pretreatment in rats.. <i>Behavioral Neuroscience</i> , 2015, 129, 399-411.	1.2	14
46	Ectopic growth of hippocampal mossy fibers in a mutated GAP43 transgenic mouse with impaired spatial memory retention. <i>Hippocampus</i> , 2010, 20, 58-64.	1.9	13
47	Complementary roles for the amygdala and hippocampus during different phases of appetitive information processing. <i>Neurobiology of Learning and Memory</i> , 2005, 84, 124-131.	1.9	12
48	Comparison of the MK-801-induced appetitive extinction deficit with pressing for reward and associated pERK1/2 staining in prefrontal cortex and nucleus accumbens. <i>Behavioural Brain Research</i> , 2012, 228, 194-202.	2.2	10
49	Enhanced adolescent learning and hippocampal axonal projections following preadolescent spatial exposure to a water or dry maze. <i>Brain Research</i> , 2012, 1475, 37-48.	2.2	10
50	Inactivation of the Anterior Cingulate Reveals Enhanced Reliance on Cortical Networks for Remote Spatial Memory Retrieval after Sequential Memory Processing. <i>PLoS ONE</i> , 2014, 9, e108711.	2.5	10
51	Emergence of spatial behavioral function and associated mossy fiber connectivity and c-Fos labeling patterns in the hippocampus of rats. <i>F1000Research</i> , 2015, 4, 396.	1.6	10
52	Estradiol treatment in preadolescent females enhances adolescent spatial memory and differentially modulates hippocampal region-specific phosphorylated ERK labeling. <i>Neuroscience Letters</i> , 2012, 528, 114-119.	2.1	9
53	Comparison of the MK-801-induced increase in non-rewarded appetitive responding with dopamine agonists and locomotor activity in rats. <i>Journal of Psychopharmacology</i> , 2013, 27, 854-864.	4.0	9
54	Utility of the Hebb-Williams Maze Paradigm for Translational Research in Fragile X Syndrome: A Direct Comparison of Mice and Humans. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 99.	2.9	9

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55	Investigation of GluA1 and GluA2 AMPA receptor subtype distribution in the hippocampus and anterior cingulate cortex of Long Evans rats during development. <i>IBRO Reports</i> , 2020, 8, 91-100.	0.3	8
56	The effects of morphine withdrawal and conditioned withdrawal on memory consolidation and c-Fos expression in the central amygdala. <i>Addiction Biology</i> , 2021, 26, e12909.	2.6	8
57	Hyperacute Excitotoxic Mechanisms and Synaptic Dysfunction Involved in Traumatic Brain Injury. <i>Frontiers in Molecular Neuroscience</i> , 2022, 15, 831825.	2.9	8
58	Differential patterns of extracellular signal-regulated kinase-1 and -2 phosphorylation in rat limbic brain regions after short-term and long-term inhibitory avoidance learning. <i>Neuroscience</i> , 2006, 137, 1321-1330.	2.3	7
59	Developmental Aspects of Glucose and Calcium Availability on the Persistence of Memory Function Over the Lifespan. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 253.	3.4	7
60	A systematic review of aerobic and resistance exercise and inflammatory markers in people with multiple sclerosis. <i>Behavioural Pharmacology</i> , 2019, 30, 652-659.	1.7	7
61	Exploring time-dependent changes in conditioned place preference for food reward and associated changes in the nucleus accumbens. <i>Behavioural Brain Research</i> , 2019, 361, 14-25.	2.2	7
62	Post-training intra-amygdala amphetamine injections given during acquisition of a stimulus-response (S-R) habit task enhance the expression of stimulus-reward learning: Further evidence for incidental amygdala learning. <i>Brain Research Bulletin</i> , 2005, 66, 222-228.	3.0	6
63	Comparison of the Time-Dependent Changes in Immediate Early Gene Labeling and Spine Density Following Abstinence From Contingent or Non-contingent Chocolate Pellet Delivery. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 144.	2.0	6
64	Spatial information processing consequences of DAMGO injections into the dorsal striatum. <i>Neurobiology of Learning and Memory</i> , 2008, 90, 434-442.	1.9	5
65	Hippocampal and anterior cingulate cortex contribution to the processing of recently-acquired and remotely stored spatial memories in rats trained during preadolescence. <i>Neurobiology of Learning and Memory</i> , 2020, 173, 107271.	1.9	5
66	Interaction between Age, Sex, and Mental Health Status as Precipitating Factors for Symptom Presentation in Concussed Individuals. <i>Hindawi Publishing Corporation</i> , 2019, 2019, 1-10.	1.1	4
67	Relating strain fields with microtubule changes in porcine cortical sulci following drop impact. <i>Journal of Biomechanics</i> , 2021, 128, 110708.	2.1	4
68	The effect of AMPA receptor blockade on spatial information acquisition, consolidation and expression in juvenile rats. <i>Neurobiology of Learning and Memory</i> , 2016, 133, 145-156.	1.9	3
69	Memory enhancement produced by post-training exposure to sucrose-conditioned cues. <i>F1000Research</i> , 2013, 2, 22.	1.6	3
70	Predictors of Concussion Outcomes in Individuals With ADHD. <i>Journal of Head Trauma Rehabilitation</i> , 2021, 36, 120-127.	1.7	3
71	Effect of Muscimol Inactivation of the Basolateral or Central Amygdala on Shock-Conditioned Responses. <i>Annals of the New York Academy of Sciences</i> , 2003, 985, 525-527.	3.8	2
72	Different periods of forced abstinence after instrumental learning for food reward of different macronutrient value on responding for conditioned cues and AMPAR subunit levels. <i>Behavioural Brain Research</i> , 2019, 375, 112141.	2.2	2

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73	Effect of stimulus pre-exposure on inhibitory avoidance retrieval-associated changes in the phosphorylated form of the extracellular signal-regulated kinase-1 and -2 (pERK1/2). <i>Neurobiology of Learning and Memory</i> , 2010, 93, 66-76.	1.9	1
74	Preadolescent dopamine receptor antagonism increases postadolescent reward-related operant behaviors that may depend on dopamine receptor hypersensitivity. <i>Neuroscience Letters</i> , 2020, 725, 134917.	2.1	1