Michela Gallagher

List of Publications by Year
in descending order

197 papers	25,063 citations	6254 80 h-index	7517 151 g-index
203 all docs	203 docs citations	203 times ranked	17627 citing authors

#	Article	IF	Citations
1	A specific amyloid-Î² protein assembly in the brain impairs memory. Nature, 2006, 440, 352-357.	27.8	2,662
2	Orbitofrontal cortex and basolateral amygdala encode expected outcomes during learning. Nature Neuroscience, 1998, 1, 155-159.	14.8	812
3	Severity of spatial learning impairment in aging: Development of a learning index for performance in the Morris water maze.. Behavioral Neuroscience, 1993, 107, 618-626.	1.2	745
4	Reduction of Hippocampal Hyperactivity Improves Cognition in Amnestic Mild Cognitive Impairment. Neuron, 2012, 74, 467-474.	8.1	736
5	Phosphorylation of the AMPA Receptor GluR1 Subunit Is Required for Synaptic Plasticity and Retention of Spatial Memory. Cell, 2003, 112, 631-643.	28.9	699
6	Orbitofrontal Cortex and Representation of Incentive Value in Associative Learning. Journal of Neuroscience, 1999, 19, 6610-6614.	3.6	579
7	Amygdala circuitry in attentional and representational processes. Trends in Cognitive Sciences, 1999, 3, 65-73.	7.8	571
8	Neurotoxic Lesions of Basolateral, But Not Central, Amygdala Interfere with Pavlovian Second-Order Conditioning and Reinforcer Devaluation Effects. Journal of Neuroscience, 1996, 16, 5256-5265.	3.6	545
9	Neural Encoding in Orbitofrontal Cortex and Basolateral Amygdala during Olfactory Discrimination Learning. Journal of Neuroscience, 1999, 19, 1876-1884.	3.6	539
10	Amygdala central nucleus lesions: Effect on heart rate conditioning in the rabbit. Physiology and Behavior, 1979, 23, 1109-1117.	2.1	527
11	Pattern separation deficits associated with increased hippocampal CA3 and dentate gyrus activity in nondemented older adults. Hippocampus, 2011, 21, 968-979.	1.9	444
12	High-resolution structural and functional MRI of hippocampal CA3 and dentate gyrus in patients with amnestic Mild Cognitive Impairment. NeuroImage, 2010, 51, 1242-1252.	4.2	436
13	Encoding Predicted Outcome and Acquired Value in Orbitofrontal Cortex during Cue Sampling Depends upon Input from Basolateral Amygdala. Neuron, 2003, 39, 855-867.	8.1	425
14	Different Roles for Orbitofrontal Cortex and Basolateral Amygdala in a Reinforcer Devaluation Task. Journal of Neuroscience, 2003, 23, 11078-11084.	3.6	417
15	Dominant-negative DISC1 transgenic mice display schizophrenia-associated phenotypes detected by measures translatable to humans. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14501-14506.	7.1	394
16	THE USE OF ANIMAL MODELS TO STUDY THE EFFECTS OF AGING ON COGNITION. Annual Review of Psychology, 1997, 48, 339-370.	17.7	379
17	Circuit-Specific Alterations in Hippocampal Synaptophysin Immunoreactivity Predict Spatial Learning Impairment in Aged Rats. Journal of Neuroscience, 2000, 20, 6587-6593.	3.6	360
18	Amygdalaâ€"frontal interactions and reward expectancy. Current Opinion in Neurobiology, 2004, 14, 148-155.	4.2	353

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19	The amygdala and emotion. Current Opinion in Neurobiology, 1996, 6, 221-227.	4.2	349
20	An evaluation of spatial information processing in aged rats.. Behavioral Neuroscience, 1987, 101, 3-12.	1.2	337
21	Severity of spatial learning impairment in aging: Development of a learning index for performance in the Morris water maze.. Behavioral Neuroscience, 2015, 129, 540-548.	1.2	309
22	Neurocognitive aging: prior memories hinder new hippocampal encoding. Trends in Neurosciences, 2006, 29, 662-670.	8.6	286
23	Lesions of Orbitofrontal Cortex and Basolateral Amygdala Complex Disrupt Acquisition of Odor-Guided Discriminations and Reversals. Learning and Memory, 2003, 10, 129-140.	1.3	270
24	Age-Associated Alterations of Hippocampal Place Cells Are Subregion Specific. Journal of Neuroscience, 2005, 25, 6877-6886.	3.6	251
25	Spatial learning deficits in old rats: A model for memory decline in the aged. Neurobiology of Aging, 1988, 9, 549-556.	3.1	232
26	Response of the medial temporal lobe network in amnestic mild cognitive impairment to therapeutic intervention assessed by fMRI and memory task performance. NeuroImage: Clinical, 2015, 7, 688-698.	2.7	229
27	Changes in Functional Connectivity in Orbitofrontal Cortex and Basolateral Amygdala during Learning and Reversal Training. Journal of Neuroscience, 2000, 20, 5179-5189.	3.6	208
28	Ageing: the cholinergic hypothesis of cognitive decline. Current Opinion in Neurobiology, 1995, 5, 161-168.	4.2	204
29	Rapid Associative Encoding in Basolateral Amygdala Depends on Connections with Orbitofrontal Cortex. Neuron, 2005, 46, 321-331.	8.1	201
30	Preserved configural learning and spatial learning impairment in rats with hippocampal damage. Hippocampus, 1992, 2, 81-88.	1.9	199
31	Neural Encoding in Ventral Striatum during Olfactory Discrimination Learning. Neuron, 2003, 38, 625-636.	8.1	196
32	Double dissociation of the effects of lesions of basolateral and central amygdala on conditioned stimulus-potentiated feeding and Pavlovian-instrumental transfer. European Journal of Neuroscience, 2003, 17, 1680-1694.	2.6	194
33	Removal of Cholinergic Input to Rat Posterior Parietal Cortex Disrupts Incremental Processing of Conditioned Stimuli. Journal of Neuroscience, 1998, 18, 8038-8046.	3.6	192
34	Cardiovascular responses elicited by electrical stimulation of the amygdala central nucleus in the rabbit. Brain Research, 1982, 234, 251-262.	2.2	189
35	Reduction in Size of Perforated Postsynaptic Densities in Hippocampal Axospinous Synapses and Age-Related Spatial Learning Impairments. Journal of Neuroscience, 2004, 24, 7648-7653.	3.6	182
36	Amygdalo-Hypothalamic Circuit Allows Learned Cues to Override Satiety and Promote Eating. Journal of Neuroscience, 2002, 22, 8748-8753.	3.6	176

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37	Amygdalar and Prefrontal Pathways to the Lateral Hypothalamus Are Activated by a Learned Cue That Stimulates Eating. Journal of Neuroscience, 2005, 25, 8295-8302.	3.6	176
38	Animal models of normal aging: Relationship between cognitive decline and markers in hippocampal circuitry. Behavioural Brain Research, 1993, 57, 155-162.	2.2	171
39	Orbitofrontal Lesions Impair Use of Cue-Outcome Associations in a Devaluation Task.. Behavioral Neuroscience, 2005, 119, 317-322.	1.2	171
40	SGS742: the first GABAB receptor antagonist in clinical trials. Biochemical Pharmacology, 2004, 68, 1479-1487.	4.4	167
41	Amygdala central nucleus lesions disrupt increments, but not decrements, in conditioned stimulus processing.. Behavioral Neuroscience, 1993, 107, 246-253.	1.2	157
42	Brain Aging: Changes in the Nature of Information Coding by the Hippocampus. Journal of Neuroscience, 1997, 17, 5155-5166.	3.6	157
43	Markers for biogenic amines in the aged rat brain: Relationship to decline in spatial learning ability. Neurobiology of Aging, 1990, 11, 507-514.	3.1	150
44	Multiple unit activity recorded from amygdala central nucleus during Pavlovian heart rate conditioning in rabbit. Brain Research, 1982, 238, 457-462.	2.2	149
45	The Role of an Amygdalo-Nigrostriatal Pathway in Associative Learning. Journal of Neuroscience, 1997, 17, 3913-3919.	3.6	149
46	Disruption of Decrements in Conditioned Stimulus Processing by Selective Removal of Hippocampal Cholinergic Input. Journal of Neuroscience, 1997, 17, 5230-5236.	3.6	148
47	Treatment Strategies Targeting Excess Hippocampal Activity Benefit Aged Rats with Cognitive Impairment. Neuropsychopharmacology, 2010, 35, 1016-1025.	5.4	146
48	Scopolamine-disruption of radial arm maze performance: modification by noradrenergic depletion. Brain Research, 1987, 417, 59-69.	2.2	135
49	The Basolateral Amygdala Is Critical to the Expression of Pavlovian and Instrumental Outcome-Specific Reinforcer Devaluation Effects. Journal of Neuroscience, 2009, 29, 696-704.	3.6	125
50	Teaching old rats new tricks: age-related impairments in olfactory reversal learning. Neurobiology of Aging, 2002, 23, 555-564.	3.1	117
51	Episodic memory on the path to Alzheimer's disease. Current Opinion in Neurobiology, 2011, 21, 929-934.	4.2	114
52	Selective immunotoxic lesions of basal forebrain cholinergic cells: Effects on learning and memory in rats.. Behavioral Neuroscience, 2013, 127, 619-627.	1.2	113
53	Lesions of the Amygdala Central Nucleus Alter Performance on a Selective Attention Task. Journal of Neuroscience, 2000, 20, 6701-6706.	3.6	111
54	NMDA receptorâ€“independent long-term depression correlates with successful aging in rats. Nature Neuroscience, 2005, 8, 1657-1659.	14.8	111

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55	Entorhinal-perirhinal lesions impair performance of rats on two versions of place learning in the Morris water maze.. Behavioral Neuroscience, 1995, 109, 3-9.	1.2	110
56	Hilar interneuron vulnerability distinguishes aged rats with memory impairment. Journal of Comparative Neurology, 2013, 521, 3508-3523.	1.6	110
57	Intact spatial learning following lesions of basal forebrain cholinergic neurons. NeuroReport, 1996, 7, 1417-1420.	1.2	107
58	Selective GABAA Î±5 positive allosteric modulators improve cognitive function in aged rats with memory impairment. Neuropharmacology, 2013, 64, 145-152.	4.1	107
59	The basolateral complex of the amygdala is necessary for acquisition but not expression of CS motivational value in appetitive Pavlovian second-order conditioning. European Journal of Neuroscience, 2002, 15, 1841-1853.	2.6	106
60	The effects of amygdala lesions on conditioned stimulus-potentiated eating in rats. Physiology and Behavior, 2002, 76, 117-129.	2.1	105
61	Medial Prefrontal Cortex Is Necessary for an Appetitive Contextual Conditioned Stimulus to Promote Eating in Sated Rats. Journal of Neuroscience, 2007, 27, 6436-6441.	3.6	105
62	An age-related spatial learning deficit: Choline uptake distinguishes â€œimpairedâ€• and â€œunimpairedâ€• rats. Neurobiology of Aging, 1988, 9, 363-369.	3.1	104
63	Effects of amygdala central nucleus lesions on blocking and unblocking.. Behavioral Neuroscience, 1993, 107, 235-245.	1.2	104
64	Hippocampal dependent learning ability correlates with N-methyl-D-aspartate (NMDA) receptor levels in CA3 neurons of young and aged rats. Journal of Comparative Neurology, 2001, 432, 230-243.	1.6	104
65	Molecular Indices of Neuronal and Glial Plasticity in the Hippocampal Formation in a Rodent Model of Age-Induced Spatial Learning Impairment. Journal of Neuroscience, 1996, 16, 3427-3443.	3.6	102
66	A re-examination of the role of basal forebrain cholinergic neurons in spatial working memory. Neuropharmacology, 1998, 37, 481-487.	4.1	99
67	Role of Amygdalo-Nigral Circuitry in Conditioning of a Visual Stimulus Paired with Food. Journal of Neuroscience, 2005, 25, 3881-3888.	3.6	99
68	Naloxone enhancement of memory processes: Effects of other opiate antagonists. Behavioral and Neural Biology, 1982, 35, 375-382.	2.2	98
69	Encoding Changes in Orbitofrontal Cortex in Reversal-Impaired Aged Rats. Journal of Neurophysiology, 2006, 95, 1509-1517.	1.8	98
70	Central, But Not Basolateral, Amygdala Is Critical for Control of Feeding by Aversive Learned Cues. Journal of Neuroscience, 2009, 29, 15205-15212.	3.6	96
71	Disconnection of the basolateral amygdala complex and nucleus accumbens impairs appetitive Pavlovian second-order conditioned responses.. Behavioral Neuroscience, 2002, 116, 267-275.	1.2	96
72	Effects of aging on the hippocampal formation in a naturally occurring animal model of mild cognitive impairment. Experimental Gerontology, 2003, 38, 71-77.	2.8	95

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73	Potential Adaptive Function for Altered Long-Term Potentiation Mechanisms in Aging Hippocampus. Journal of Neuroscience, 2008, 28, 8034-8039.	3.6	95
74	Hypothalamicâ€“pituitaryâ€“adrenal axis function and corticosterone receptor expression in behaviourally characterized young and aged Longâ€“Evans rats. European Journal of Neuroscience, 2001, 14, 1739-1751.	2.6	94
75	Different Roles for Amygdala Central Nucleus and Substantia Innominata in the Surprise-Induced Enhancement of Learning. Journal of Neuroscience, 2006, 26, 3791-3797.	3.6	93
76	Cognitive Aging and the Hippocampus: How Old Rats Represent New Environments. Journal of Neuroscience, 2004, 24, 3870-3878.	3.6	91
77	Cognitive Aging: A Common Decline of Episodic Recollection and Spatial Memory in Rats. Journal of Neuroscience, 2008, 28, 8945-8954.	3.6	90
78	Multiple Receptors Coupled to Phospholipase C Gate Long-Term Depression in Visual Cortex. Journal of Neuroscience, 2005, 25, 11433-11443.	3.6	88
79	Cognitive and motivational deficits together with prefrontal oxidative stress in a mouse model for neuropsychiatric illness. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12462-12467.	7.1	88
80	Hippocampal lesions interfere with Pavlovian negative occasion setting. , 1999, 9, 143-157.		87
81	Learned contextual cue potentiates eating in rats. Physiology and Behavior, 2007, 90, 362-367.	2.1	85
82	Cognitive Decline Is Associated with Reduced Reelin Expression in the Entorhinal Cortex of Aged Rats. Cerebral Cortex, 2011, 21, 392-400.	2.9	85
83	Metabotropic Glutamate Receptor-Mediated Hippocampal Phosphoinositide Turnover Is Blunted in Spatial Learning-Impaired Aged Rats. Journal of Neuroscience, 1999, 19, 9604-9610.	3.6	84
84	Morphometric studies of the aged hippocampus: I. Volumetric analysis in behaviorally characterized rats. Journal of Comparative Neurology, 1999, 403, 459-470.	1.6	84
85	Opiate effects in the amygdala central nucleus on heart rate conditioning in rabbits. Pharmacology Biochemistry and Behavior, 1981, 14, 497-505.	2.9	82
86	Cholinergic system regulation of spatial representation by the hippocampus. Hippocampus, 2002, 12, 386-397.	1.9	80
87	Prominent hippocampal CA3 gene expression profile in neurocognitive aging. Neurobiology of Aging, 2011, 32, 1678-1692.	3.1	78
88	Targeting Neural Hyperactivity as a Treatment to Stem Progression of Late-Onset Alzheimer's Disease. Neurotherapeutics, 2017, 14, 662-676.	4.4	77
89	Neurobiological substrates of behavioral decline: Models and data analytic strategies for individual differences in aging. Neurobiology of Aging, 1996, 17, 491-495.	3.1	76
90	Amygdala Subsystems and Control of Feeding Behavior by Learned Cues. Annals of the New York Academy of Sciences, 2003, 985, 251-262.	3.8	76

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91	Role of Substantia Nigra-Amygdala Connections in Surprise-Induced Enhancement of Attention. Journal of Neuroscience, 2006, 26, 6077-6081.	3.6	75
92	Assessment of cognition in early dementia. Alzheimer's and Dementia, 2011, 7, e60-e76.	0.8	75
93	Lesions of Orbitofrontal Cortex Impair Rats' Differential Outcome Expectancy Learning But Not Conditioned Stimulus-Potentiated Feeding. Journal of Neuroscience, 2005, 25, 4626-4632.	3.6	74
94	Control of food consumption by learned cues: A forebrainâ€“hypothalamic network. Physiology and Behavior, 2007, 91, 397-403.	2.1	74
95	Selective removal of cholinergic neurons in the basal forebrain alters cued target detection. NeuroReport, 1999, 10, 3119-3123.	1.2	71
96	Age-Related Memory Impairment Is Associated with Disrupted Multivariate Epigenetic Coordination in the Hippocampus. PLoS ONE, 2012, 7, e33249.	2.5	70
97	Heightened cortical excitability in aged rodents with memory impairment. Neurobiology of Aging, 2017, 54, 144-151.	3.1	70
98	Effects of opiate antagonists on spatial memory in young and aged rats. Behavioral and Neural Biology, 1985, 44, 374-385.	2.2	64
99	Î²-adrenergic manipulation in amygdala central n. alters rabbit heart rate conditioning. Pharmacology Biochemistry and Behavior, 1980, 12, 419-426.	2.9	62
100	Functions of the Amygdala and Related Forebrain Areas in Attention and Cognition. Annals of the New York Academy of Sciences, 1999, 877, 397-411.	3.8	62
101	Metabotropic Glutamate Receptors Induce a Form of LTP Controlled by Translation and Arc Signaling in the Hippocampus. Journal of Neuroscience, 2016, 36, 1723-1729.	3.6	62
102	Expression of insulin-like growth factor binding protein-4 and -5 mRNAs in adult rat forebrain. Journal of Comparative Neurology, 1994, 339, 91-105.	1.6	58
103	Individual differences in spatial memory among aged rats are related to hippocampal PKC? immunoreactivity. Hippocampus, 2002, 12, 285-289.	1.9	57
104	The central amygdala projection to the substantia nigra reflects prediction error information in appetitive conditioning. Learning and Memory, 2010, 17, 531-538.	1.3	55
105	Rat Orbitofrontal Cortex Separately Encodes Response and Outcome Information during Performance of Goal-Directed Behavior. Journal of Neuroscience, 2008, 28, 5127-5138.	3.6	54
106	Associatively Learned Representations of Taste Outcomes Activate Taste-Encoding Neural Ensembles in Gustatory Cortex. Journal of Neuroscience, 2009, 29, 15386-15396.	3.6	52
107	Aging reduces total neuron number in the dorsal component of the rodent prefrontal cortex. Journal of Comparative Neurology, 2012, 520, 1318-1326.	1.6	52
108	Decreased glutamate release correlates with elevated dynorphin content in the hippocampus of aged rats with spatial learning deficits. Hippocampus, 1991, 1, 391-397.	1.9	50

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109	Individual Differences in Spatial Memory and Striatal ChAT Activity among Young and Aged Rats. Neurobiology of Learning and Memory, 1998, 70, 314-327.	1.9	50
110	Effect of phentolamine administration into the amygdala complex of rats on time-dependent memory processes. Behavioral and Neural Biology, 1981, 31, 90-95.	2.2	49
111	Opiate antagonist facilitation of time-dependent memory processes: Dependence upon intact norepinephrine function. Brain Research, 1985, 347, 284-290.	2.2	49
112	Individual differences in neurocognitive aging of the medial temporal lobe. Age, 2006, 28, 221-233.	3.0	49
113	Characterization of CpG island DNA methylation of impairment-related genes in a rat model of cognitive aging. Epigenetics, 2012, 7, 1008-1019.	2.7	48
114	Amygdala central nucleus function is necessary for learning but not expression of conditioned visual orienting. European Journal of Neuroscience, 2004, 20, 240-248.	2.6	46
115	Mindspan: Lessons from Rat Models of Neurocognitive Aging. ILAR Journal, 2011, 52, 32-40.	1.8	46
116	Cortical thickness atrophy in the transentorhinal cortex in mild cognitive impairment. NeuroImage: Clinical, 2019, 21, 101617.	2.7	46
117	Hippocampal muscarinic receptor function in spatial learning-impaired aged rats. Neurobiology of Aging, 1995, 16, 955-963.	3.1	43
118	Genetic background differences and nonassociative effects in mouse trace fear conditioning. Learning and Memory, 2007, 14, 597-605.	1.3	43
119	An analysis of licking microstructure in three strains of mice. Appetite, 2010, 54, 320-330.	3.7	43
120	Increased hippocampal activation in ApoE-4 carriers and non-carriers with amnestic mild cognitive impairment. NeuroImage: Clinical, 2017, 13, 237-245.	2.7	41
121	A necessary role for GluR1 serine 831 phosphorylation in appetitive incentive learning. Behavioural Brain Research, 2008, 191, 178-183.	2.2	40
122	Greater effort boosts the affective taste properties of food. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 1450-1456.	2.6	39
123	Learning strategy selection in the water maze and hippocampal CREB phosphorylation differ in two inbred strains of mice. Learning and Memory, 2008, 15, 183-188.	1.3	38
124	A fine balance: Regulation of hippocampal Arc/Arg3.1 transcription, translation and degradation in a rat model of normal cognitive aging. Neurobiology of Learning and Memory, 2014, 115, 58-67.	1.9	38
125	A longitudinal study of reaction time performance in long-evans rats. Neurobiology of Aging, 1993, 14, 57-64.	3.1	37
126	Lesions of basolateral amygdala impair extinction of CS motivational value, but not of explicit conditioned responses, in Pavlovian appetitive second-order conditioning. European Journal of Neuroscience, 2003, 17, 160-166.	2.6	37

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127	Aging causes partial loss of basal forebrain but no loss of pontine reticular cholinergic neurons. NeuroReport, 2006, 17, 1819-1823.	1.2	37
128	Hippocampal lesions enhance configural learning by reducing proactive interference. , 1998, 8, 138-146.		36
129	Head west or left, east or right: interactions between memory systems in neurocognitive aging. Neurobiology of Aging, 2015, 36, 3067-3078.	3.1	36
130	Enkephalin analogue effects in the amygdala central nucleus on conditioned heart rate. Pharmacology Biochemistry and Behavior, 1982, 17, 217-222.	2.9	34
131	Spatial memory in middle-aged female rats: Assessment of estrogen replacement after ovariectomy. Brain Research, 2005, 1052, 163-173.	2.2	34
132	Behaviorally Activated mRNA Expression Profiles Produce Signatures of Learning and Enhanced Inhibition in Aged Rats with Preserved Memory. PLoS ONE, 2013, 8, e83674.	2.5	34
133	Thalamic and basal forebrain cholinergic connections of the rat posterior parietal cortex. NeuroReport, 1999, 10, 941-945.	1.2	33
134	Amygdala Central Nucleus Function Is Necessary for Learning, but Not Expression, of Conditioned Auditory Orienting.. Behavioral Neuroscience, 2005, 119, 202-212.	1.2	33
135	Inositol polyphosphate multikinase is a transcriptional coactivator required for immediate early gene induction. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16181-16186.	7.1	33
136	Ageâ€associated changes in hippocampalâ€dependent cognition in <scp>D</scp>iversity <scp>O</scp>utbred mice. Hippocampus, 2014, 24, 1300-1307.	1.9	33
137	Decreased glucocorticoid receptor mRNA and dysfunction of HPA axis in rats after removal of the cholinergic innervation to hippocampus.. European Journal of Neuroscience, 2002, 16, 1399-1404.	2.6	32
138	Painful stimuli evoke potentials recorded from the medial temporal lobe in humans. Neuroscience, 2010, 165, 1402-1411.	2.3	32
139	Muscarinic receptor-mediated GTPâ€“Eu binding in the hippocampus and prefrontal cortex is correlated with spatial memory impairment in aged rats. Neurobiology of Aging, 2007, 28, 619-626.	3.1	31
140	Interference with reelin signaling in the lateral entorhinal cortex impairs spatial memory. Neurobiology of Learning and Memory, 2011, 96, 150-155.	1.9	31
141	Integrity of mGluR-LTD in the Associative/Commissural Inputs to CA3 Correlates with Successful Aging in Rats. Journal of Neuroscience, 2013, 33, 12670-12678.	3.6	29
142	Spatial learning in male and female Long-Evans rats.. Behavioral Neuroscience, 2021, 135, 4-7.	1.2	29
143	Neural Encoding in the Orbitofrontal Cortex Related to Goalâ€Directed Behavior. Annals of the New York Academy of Sciences, 2007, 1121, 193-215.	3.8	28
144	A role for alphaâ€aminoâ€3â€hydroxyâ€5â€methylisoxazoleâ€4â€propionic acid GluR1 phosphorylation in the modulatory effects of appetitive reward cues on goalâ€directed behavior. European Journal of Neuroscience, 2008, 27, 3284-3291.	2.6	28

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145	More Is Less: Neurogenesis and Age-Related Cognitive Decline in Long-Evans Rats. Science of Aging Knowledge Environment: SAGE KE, 2005, 2005, re2-re2.	0.8	28
146	Mesostriatal dopamine markers in aged Long-Evans rats with sensorimotor impairment. Neurobiology of Aging, 1995, 16, 175-186.	3.1	27
147	Systemic and intraventricular naloxone administration: Effects on food and water intake. Behavioral and Neural Biology, 1981, 32, 334-342.	2.2	26
148	Bridging Neurocognitive Aging and Disease Modification: Targeting Functional Mechanisms of Memory Impairment. Current Alzheimer Research, 2010, 7, 197-199.	1.4	26
149	Alterations in [3H]-kainate receptor binding in the hippocampal formation of aged long-evans rats. Hippocampus, 1993, 3, 269-277.	1.9	25
150	Proactive and reactive inhibitory control in rats. Frontiers in Neuroscience, 2014, 8, 104.	2.8	25
151	Entorhinal and transentorhinal atrophy in mild cognitive impairment using longitudinal diffeomorphometry. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2017, 9, 41-50.	2.4	24
152	Opiates and memory. Trends in Neurosciences, 1979, 2, 177-180.	8.6	23
153	Treatment with levetiracetam improves cognition in a ketamine rat model of schizophrenia. Schizophrenia Research, 2018, 193, 119-125.	2.0	23
154	Enhanced postsynaptic inhibitory strength in hippocampal principal cells in high-performing aged rats. Neurobiology of Aging, 2018, 70, 92-101.	3.1	22
155	Retrograde amnesia and hippocampal stimulation: Dependence upon the nature of associations formed during conditioning. Behavioral Biology, 1978, 24, 1-23.	2.2	21
156	Animal models of memory impairment. Philosophical Transactions of the Royal Society B: Biological Sciences, 1997, 352, 1711-1717.	4.0	21
157	Rapid encoding of new information alters the profile of plasticity-related mRNA transcripts in the hippocampal CA3 region. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10601-10606.	7.1	21
158	Aged rats with preserved memory dynamically recruit hippocampal inhibition in a local/global cue mismatch environment. Neurobiology of Aging, 2019, 76, 151-161.	3.1	21
159	Effects of aging on the diurnal pattern of water intake in rats. Behavioral and Neural Biology, 1992, 58, 196-203.	2.2	20
160	The effects of aging on diurnal water intake and melatonin binding in the suprachiasmatic nucleus. Neuroscience Letters, 1993, 154, 149-152.	2.1	20
161	Visualization of muscarinic receptor-mediated phosphoinositide turnover in the hippocampus of young and aged, learning-impaired Long Evans rats. Hippocampus, 2001, 11, 741-746.	1.9	20
162	The brainâ€derived neurotrophic factor receptor TrkB is critical for the acquisition but not expression of conditioned incentive value. European Journal of Neuroscience, 2008, 28, 997-1002.	2.6	20

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163	Basal forebrain neuronal inhibition enables rapid behavioral stopping. Nature Neuroscience, 2015, 18, 1501-1508.	14.8	20
164	What are the threats to successful brain and cognitive aging?. Neurobiology of Aging, 2019, 83, 130-134.	3.1	20
165	Reduced cognitive performance in aged rats correlates with increased excitation/inhibition ratio in the dentate gyrus in response to lateral entorhinal input. Neurobiology of Aging, 2019, 82, 120-127.	3.1	20
166	Transcriptional mechanisms of hippocampal aging. Experimental Gerontology, 2004, 39, 1613-1622.	2.8	19
167	Hippocampal lesions interfere with long-trace taste aversion conditioning. Physiology and Behavior, 2009, 98, 103-107.	2.1	19
168	Heterogeneity of Age-Related Neural Hyperactivity along the CA3 Transverse Axis. Journal of Neuroscience, 2021, 41, 663-673.	3.6	18
169	Age-related spatial learning impairment is unrelated to spinophilin immunoreactive spine number and protein levels in rat hippocampus. Neurobiology of Aging, 2008, 29, 1256-1264.	3.1	17
170	Neuroanatomical and behavioral deficits in mice haploinsufficient for Pericentriolar material 1 (Pcm1). Neuroscience Research, 2015, 98, 45-49.	1.9	17
171	Issues in the development of models for cognitive aging across primate and nonprimate species. Neurobiology of Aging, 1993, 14, 631-633.	3.1	16
172	Alterations in opiate receptor binding in the hippocampus of aged Long-Evans rats. Brain Research, 1996, 707, 22-30.	2.2	16
173	Place cells of aged rats in two visually identical compartments. Neurobiology of Aging, 2005, 26, 1099-1106.	3.1	16
174	Assessing the role of the growth hormone secretagogue receptor in motivational learning and food intake.. Behavioral Neuroscience, 2009, 123, 1058-1065.	1.2	16
175	Significance of inhibitory recruitment in aging with preserved cognition: limiting gamma-aminobutyric acid type A Î±5 function produces memory impairment. Neurobiology of Aging, 2020, 91, 1-4.	3.1	16
176	Cognition and Hippocampal Systems in Aging:Animal Models. , 1995, , 103-126.		14
177	Lateral entorhinal cortex dysfunction in amnestic mild cognitive impairment. Neurobiology of Aging, 2022, 112, 151-160.	3.1	13
178	The development of neurobiological models for cognitive decline in aging. Seminars in Neuroscience, 1994, 6, 351-358.	2.2	12
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