Ivan Izquierdo

List of Publications by Year
in descending order

286 papers	19,292 citations	10979 71 h-index	15716 125 g-index
288 all docs	288 docs citations	288 times ranked	13938 citing authors

#	Article	IF	Citations
1	Memory Formation: The Sequence of Biochemical Events in the Hippocampus and Its Connection to Activity in Other Brain Structures. Neurobiology of Learning and Memory, 1997, 68, 285-316.	1.0	814
2	BDNF is essential to promote persistence of long-term memory storage. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2711-2716.	3.3	559
3	Persistence of Long-Term Memory Storage Requires a Late Protein Synthesis- and BDNF- Dependent Phase in the Hippocampus. Neuron, 2007, 53, 261-277.	3.8	550
4	Physiology of the Prion Protein. Physiological Reviews, 2008, 88, 673-728.	13.1	523
5	Different molecular cascades in different sites of the brain control memory consolidation. Trends in Neurosciences, 2006, 29, 496-505.	4.2	404
6	Dopamine Controls Persistence of Long-Term Memory Storage. Science, 2009, 325, 1017-1020.	6.0	384
7	Neurotransmitter receptors involved in post-training memory processing by the amygdala, medial septum, and hippocampus of the rat. Behavioral and Neural Biology, 1992, 58, 16-26.	2.3	358
8	Fear Memory. Physiological Reviews, 2016, 96, 695-750.	13.1	331
9	BDNF-triggered events in the rat hippocampus are required for both short- and long-term memory formation. Hippocampus, 2002, 12, 551-560.	0.9	298
10	Two Time Periods of Hippocampal mRNA Synthesis Are Required for Memory Consolidation of Fear-Motivated Learning. Journal of Neuroscience, 2002, 22, 6781-6789.	1.7	292
11	Cellular prion protein binds laminin and mediates neuritogenesis. Molecular Brain Research, 2000, 76, 85-92.	2.5	279
12	Learning-associated activation of nuclear MAPK, CREB and Elk-1, along with Fos production, in the rat hippocampus after a one-trial avoidance learning: abolition by NMDA receptor blockade. Molecular Brain Research, 2000, 76, 36-46.	2.5	265
13	Reviews: BDNF and Memory Formation and Storage. Neuroscientist, 2008, 14, 147-156.	2.6	260
14	Effect of naloxone and morphine on various forms of memory in the rat: Possible role of endogenous opiate mechanisms in memory consolidation. Psychopharmacology, 1979, 66, 199-203.	1.5	251
15	Mechanisms for memory types differ. Nature, 1998, 393, 635-636.	13.7	243
16	Role of Hippocampal Signaling Pathways in Long-Term Memory Formation of a Nonassociative Learning Task in the Rat. Learning and Memory, 2000, 7, 333-340.	0.5	242
17	On the role of hippocampal protein synthesis in the consolidation and reconsolidation of object recognition memory. Learning and Memory, 2007, 14, 36-46.	0.5	235
18	BDNF Activates mTOR to Regulate GluR1 Expression Required for Memory Formation. PLoS ONE, 2009, 4, e6007.	1.1	230

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19	Separate mechanisms for short- and long-term memory. Behavioural Brain Research, 1999, 103, 1-11.	1.2	220
20	Plastic modifications induced by object recognition memory processing. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2652-2657.	3.3	220
21	Mice Deficient for the Vesicular Acetylcholine Transporter Are Myasthenic and Have Deficits in Object and Social Recognition. Neuron, 2006, 51, 601-612.	3.8	208
22	The role of NMDA glutamate receptors, PKA, MAPK, and CAMKII in the hippocampus in extinction of conditioned fear. Hippocampus, 2003, 13, 53-58.	0.9	206
23	The ubiquitin-proteasome cascade is required for mammalian long-term memory formation. European Journal of Neuroscience, 2001, 14, 1820-1826.	1.2	203
24	Molecular pharmacological dissection of short- and long-term memory. Cellular and Molecular Neurobiology, 2002, 22, 269-287.	1.7	176
25	Amnesia by post-training infusion of glutamate receptor antagonists into the amygdala, hippocampus, and entorhinal cortex. Behavioral and Neural Biology, 1992, 58, 76-80.	2.3	171
26	Increased Sensitivity to Seizures in Mice Lacking Cellular Prion Protein. Epilepsia, 1999, 40, 1679-1682.	2.6	170
27	mTOR signaling in the hippocampus is necessary for memory formation. Neurobiology of Learning and Memory, 2007, 87, 303-307.	1.0	163
28	Two Time Windows of Anisomycin-Induced Amnesia for Inhibitory Avoidance Training in Rats: Protection from Amnesia by Pretraining but not Pre-exposure to the Task Apparatus. Learning and Memory, 1999, 6, 600-607.	0.5	162
29	GABAA receptor modulation of memory: the role of endogenous benzodiazepines. Trends in Pharmacological Sciences, 1991, 12, 260-265.	4.0	160
30	Hippocampal cGMP and cAMP are differentially involved in memory processing of inhibitory avoidance learning. NeuroReport, 1996, 7, 585-588.	0.6	155
31	Different forms of post-training memory processing. Behavioral and Neural Biology, 1989, 51, 171-202.	2.3	142
32	Short- and Long-Term Memory Are Differentially Regulated by Monoaminergic Systems in the Rat Brain. Neurobiology of Learning and Memory, 1998, 69, 219-224.	1.0	139
33	The contribution of pharmacology to research on the mechanisms of memory formation. Trends in Pharmacological Sciences, 2000, 21, 208-210.	4.0	138
34	Different hippocampal molecular requirements for short- and long-term retrieval of one-trial avoidance learning. Behavioural Brain Research, 2000, 111, 93-98.	1.2	132
35	Behavioral and genoprotective effects of Vaccinium berries intake in mice. Pharmacology Biochemistry and Behavior, 2006, 84, 229-234.	1.3	131
36	Molecular signalling pathways in the cerebral cortex are required for retrieval of one-trial avoidance learning in rats. Behavioural Brain Research, 2000, 114, 183-192.	1.2	124

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37	Cellular prion protein: on the road for functions. FEBS Letters, 2002, 512, 25-28.	1.3	123
38	Learning-specific, time-dependent increases in hippocampal Ca2+/calmodulin-dependent protein kinase II activity and AMPA GluR1 subunit immunoreactivity. European Journal of Neuroscience, 1998, 10, 2669-2676.	1.2	121
39	Simultaneous modulation of retrieval by dopaminergic D1, Î²-noradrenergic, serotonergic-1A and cholinergic muscarinic receptors in cortical structures of the rat. Behavioural Brain Research, 2001, 124, 1-7.	1.2	115
40	Endogenous BDNF is required for long-term memory formation in the rat parietal cortex. Learning and Memory, 2005, 12, 504-510.	0.5	112
41	Effect of lyophilised berries on memory, anxiety and locomotion in adult rats. Pharmacological Research, 2005, 52, 457-462.	3.1	112
42	Modulation of the extinction of two different fear-motivated tasks in three distinct brain areas. Behavioural Brain Research, 2012, 232, 210-216.	1.2	111
43	Further evidence for the involvement of a hippocampal cGMP/cGMP-dependent protein kinase cascade in memory consolidation. NeuroReport, 1997, 8, 2221-2224.	0.6	109
44	The Nucleus of the Solitary Tractâ†'Nucleus Paragigantocellularisâ†'Locus Coeruleusâ†'CA1 region of dorsal hippocampus pathway is important for consolidation of object recognition memory. Neurobiology of Learning and Memory, 2013, 100, 56-63.	1.0	109
45	Phosphorylated cAMP Response Element-Binding Protein as a Molecular Marker of Memory Processing in Rat Hippocampus: Effect of Novelty. Journal of Neuroscience, 2000, 20, RC112-RC112.	1.7	106
46	The Vesicular Acetylcholine Transporter Is Required for Neuromuscular Development and Function. Molecular and Cellular Biology, 2009, 29, 5238-5250.	1.1	105
47	The learning of fear extinction. Neuroscience and Biobehavioral Reviews, 2014, 47, 670-683.	2.9	105
48	Retrieval Does Not Induce Reconsolidation of Inhibitory Avoidance Memory. Learning and Memory, 2004, 11, 572-578.	0.5	104
49	On the participation of mTOR in recognition memory. Neurobiology of Learning and Memory, 2008, 89, 338-351.	1.0	103
50	Signaling mechanisms mediating BDNF modulation of memory formation in vivo in the hippocampus. Cellular and Molecular Neurobiology, 2002, 22, 663-674.	1.7	98
51	Inhibition of hippocampal Jun N-terminal kinase enhances short-term memory but blocks long-term memory formation and retrieval of an inhibitory avoidance task. European Journal of Neuroscience, 2003, 17, 897-902.	1.2	98
52	Retrieval induces hippocampal-dependent reconsolidation of spatial memory. Learning and Memory, 2006, 13, 431-440.	0.5	98
53	Behavioral tagging of extinction learning. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1071-1076.	3.3	97
54	The Amygdala Is Involved in the Modulation of Long-Term Memory, but Not in Working or Short-Term Memory. Neurobiology of Learning and Memory, 1999, 71, 127-131.	1.0	95

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55	Time-Dependent Impairment of Inhibitory Avoidance Retention in Rats by Posttraining Infusion of a Mitogen-Activated Protein Kinase Kinase Inhibitor into Cortical and Limbic Structures. Neurobiology of Learning and Memory, 2000, 73, 11-20.	1.0	93
56	Chronically administered guanosine is anticonvulsant, amnesic and anxiolytic in mice. Brain Research, 2003, 977, 97-102.	1.1	93
57	Time-dependent behavioral recovery after sepsis in rats. Intensive Care Medicine, 2008, 34, 1724-1731.	3.9	93
58	Hippocampal molecular mechanisms involved in the enhancement of fear extinction caused by exposure to novelty. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4572-4577.	3.3	88
59	Normal inhibitory avoidance learning and anxiety, but increased locomotor activity in mice devoid of PrPC. Molecular Brain Research, 1999, 71, 349-353.	2.5	85
60	Role of hippocampal NO in the acquisition and consolidation of inhibitory avoidance learning. NeuroReport, 1995, 6, 1498-1500.	0.6	81
61	Posttraining activation of CB1 cannabinoid receptors in the CA1 region of the dorsal hippocampus impairs object recognition long-term memory. Neurobiology of Learning and Memory, 2008, 90, 374-381.	1.0	81
62	Inhibition of mRNA and Protein Synthesis in the CA1 Region of the Dorsal Hippocampus Blocks Reinstallment of an Extinguished Conditioned Fear Response. Journal of Neuroscience, 2003, 23, 737-741.	1.7	80
63	Angiotensin II blocks memory consolidation through an AT2 receptor-dependent mechanism. Psychopharmacology, 2005, 179, 529-535.	1.5	79
64	Preventing adolescent stress-induced cognitive and microbiome changes by diet. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9644-9651.	3.3	79
65	Retrograde memory enhancement by diazepam: its relation to anterograde amnesia, and some clinical implications. Psychopharmacology, 1986, 90, 554-6.	1.5	78
66	Memory extinction requires gene expression in rat hippocampus. Neurobiology of Learning and Memory, 2003, 79, 199-203.	1.0	78
67	Short-term memory formation and long-term memory consolidation are enhanced by cellular prion association to stress-inducible protein 1. Neurobiology of Disease, 2007, 26, 282-290.	2.1	77
68	Differential effects of emotional arousal in short- and long-term memory in healthy adults. Neurobiology of Learning and Memory, 2003, 79, 132-135.	1.0	76
69	Persistence of Long-Term Memory Storage: New Insights into its Molecular Signatures in the Hippocampus and Related Structures. Neurotoxicity Research, 2010, 18, 377-385.	1.3	76
70	Anxiolytic-, antidepressant- and anticonvulsant-like effects of the alkaloid montanine isolated from Hippeastrum vittatum. Pharmacology Biochemistry and Behavior, 2006, 85, 148-154.	1.3	74
71	Effect of various behavioral training and testing procedures on brain Î²-endorphin-like immunoreactivity and the possible role of Î²-endorphin in behavioral regulation. Psychoneuroendocrinology, 1984, 9, 381-389.	1.3	73
72	Angiotensin II disrupts inhibitory avoidance memory retrieval. Hormones and Behavior, 2006, 50, 308-313.	1.0	73

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73	Intrahippocampal or intraamygdala infusion of KN62, a specific inhibitor of calcium/calmodulin-dependent protein kinase II, causes retrograde amnesia in the rat. Behavioral and Neural Biology, 1994, 61, 203-205.	2.3	72
74	Environmental enrichment and exercise are better than social enrichment to reduce memory deficits in amyloid beta neurotoxicity. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2403-E2409.	3.3	72
75	Early postnatal maternal deprivation in rats induces memory deficits in adult life that can be reversed by donepezil and galantamine. International Journal of Developmental Neuroscience, 2009, 27, 59-64.	0.7	71
76	Differential effect of posttraining naloxone, Î²-endorphin, leu-enkephalin and electroconvulsive shock administration upon memory of an open-field habituation and of a water-finding task. Psychoneuroendocrinology, 1986, 11, 437-446.	1.3	70
77	Protein synthesis, PKA, and MAP kinase are differentially involved in short- and long-term memory in rats. Behavioural Brain Research, 2004, 154, 339-343.	1.2	69
78	Role of ?-Endorphin in Behavioral Regulation. Annals of the New York Academy of Sciences, 1985, 444, 162-177.	1.8	68
79	Post-training intrahippocampal infusion of protein kinase C inhibitors causes amnesia in rats. Behavioral and Neural Biology, 1994, 61, 107-109.	2.3	67
80	Major neurotransmitter systems in dorsal hippocampus and basolateral amygdala control social recognition memory. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4914-9.	3.3	67
81	The interaction between prion protein and laminin modulates memory consolidation. European Journal of Neuroscience, 2006, 24, 3255-3264.	1.2	66
82	Short- and Long-Term Memory Are Differentially Affected by Metabolic Inhibitors Given into Hippocampus and Entorhinal Cortex. Neurobiology of Learning and Memory, 2000, 73, 141-149.	1.0	64
83	Cellular prion protein ablation impairs behavior as a function of age. NeuroReport, 2003, 14, 1375-1379.	0.6	64
84	Physical exercise can reverse the deficit in fear memory induced by maternal deprivation. Neurobiology of Learning and Memory, 2009, 92, 364-369.	1.0	64
85	Facilitation of fear extinction by novelty depends on dopamine acting on D1-subtype dopamine receptors in hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1652-8.	3.3	63
86	Aversive Experiences Are Associated with a Rapid and Transient Activation of ERKs in the Rat Hippocampus.. Neurobiology of Learning and Memory, 2002, 77, 119-124.	1.0	62
87	Retrograde Amnesia Induced by Drugs Acting on Different Molecular Systems.. Behavioral Neuroscience, 2004, 118, 563-568.	0.6	61
88	Histamine enhances inhibitory avoidance memory consolidation through a H2 receptor-dependent mechanism. Neurobiology of Learning and Memory, 2006, 86, 100-106.	1.0	61
89	Retrograde amnesia caused by Met- Leu- and des-Tyr-Met-enkephalin in the rat and its reversal by naloxone. Neuroscience Letters, 1981, 22, 189-193.	1.0	60
90	The connection between the hippocampal and the striatal memory systems of the brain: A review of recent findings. Neurotoxicity Research, 2006, 10, 113-121.	1.3	60

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91	Memory expression is blocked by the infusion of CNQX into the hippocampus and/or the amygdala up to 20 days after training. Behavioral and Neural Biology, 1993, 59, 83-86.	2.3	59
92	Molecular mechanisms of memory retrieval. Neurochemical Research, 2002, 27, 1491-1498.	1.6	59
93	Bombesin/gastrin-releasing peptide receptors in the basolateral amygdala regulate memory consolidation. European Journal of Neuroscience, 2004, 19, 1041-1045.	1.2	59
94	Early Activation of Extracellular Signal-Regulated Kinase Signaling Pathway in the Hippocampus is Required for Short-Term Memory Formation of a Fear-Motivated Learning. Cellular and Molecular Neurobiology, 2006, 26, 81-6.	1.7	59
95	Î²â€Adrenergic receptors link NO/sGC/PKG signaling to BDNF expression during the consolidation of object recognition longâ€term memory. Hippocampus, 2010, 20, 672-683.	0.9	59
96	Activation of adenosine receptors in the posterior cingulate cortex impairs memory retrieval in the rat. Neurobiology of Learning and Memory, 2005, 83, 217-223.	1.0	58
97	Do memories consolidate to persist or do they persist to consolidate?. Behavioural Brain Research, 2008, 192, 61-69.	1.2	58
98	Neonatal iron exposure induces oxidative stress in adult Wistar rat. Developmental Brain Research, 2001, 130, 109-114.	2.1	57
99	Elimination of the vesicular acetylcholine transporter in the forebrain causes hyperactivity and deficits in spatial memory and long-term potentiation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17651-17656.	3.3	57
100	B-50/GAP-43 phosphorylation and PKC activity are increased in rat hippocampal synaptosomal membranes after an inhibitory avoidance training. Neurochemical Research, 1997, 22, 499-505.	1.6	56
101	Participation of CaMKII in neuronal plasticity and memory formation. Cellular and Molecular Neurobiology, 2002, 22, 259-267.	1.7	56
102	Effects of acute and chronic physical exercise and stress on different types of memory in rats. Anais Da Academia Brasileira De Ciencias, 2008, 80, 301-309.	0.3	56
103	Hippocampal noradrenergic activation is necessary for object recognition memory consolidation and can promote BDNF increase and memory persistence. Neurobiology of Learning and Memory, 2016, 127, 84-92.	1.0	56
104	Inhibitory Avoidance Training Induces Rapid and Selective Changes in3[H]AMPA Receptor Binding in the Rat Hippocampal Formation. Neurobiology of Learning and Memory, 1995, 64, 257-264.	1.0	54
105	Role of the Hippocampus and Amygdala in the Extinction of Fear- Motivated Learning. Current Neurovascular Research, 2004, 1, 55-60.	0.4	54
106	Both the dorsal hippocampus and the dorsolateral striatum are needed for rat navigation in the Morris water maze. Behavioural Brain Research, 2012, 226, 171-178.	1.2	54
107	Effect of a novel experience prior to training or testing on retention of an inhibitory avoidance response in mice: Involvement of an opioid system. Behavioral and Neural Biology, 1985, 44, 228-238.	2.3	53
108	Retrieval and the Extinction of Memory. Cellular and Molecular Neurobiology, 2005, 25, 465-474.	1.7	53

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109	Memory deficits and oxidative stress in cerebral ischemiaâ€"reperfusion: Neuroprotective role of physical exercise and green tea supplementation. Neurobiology of Learning and Memory, 2014, 114, 242-250.	1.0	53
110	Dose-dependent impairment of inhibitory avoidance retention in rats by immediate post-training infusion of a mitogen-activated protein kinase kinase inhibitor into cortical structures. Behavioural Brain Research, 1999, 105, 219-223.	1.2	52
111	Rapid and transient learning-associated increase in NMDA NR1 subunit in the rat hippocampus. Neurochemical Research, 2000, 25, 567-572.	1.6	52
112	Effects of chronic administered guanosine on behavioral parameters and brain glutamate uptake in rats. Journal of Neuroscience Research, 2005, 79, 248-253.	1.3	52
113	Duration of environmental enrichment influences the magnitude and persistence of its behavioral effects on mice. Physiology and Behavior, 2008, 93, 388-394.	1.0	52
114	One-trial aversive learning induces late changes in hippocampal CaMKIIÎ±, Homer 1a, Syntaxin 1a and ERK2 protein levels. Molecular Brain Research, 2004, 132, 1-12.	2.5	51
115	Inhibition of mRNA synthesis in the hippocampus impairs consolidation and reconsolidation of spatial memory. Hippocampus, 2008, 18, 29-39.	0.9	50
116	Memory as a state dependent phenomenon: Role of ACTH and epinephrine. Behavioral and Neural Biology, 1983, 38, 144-149.	2.3	49
117	Involvement of hippocampal PKCÎ²I isoform in the early phase of memory formation of an inhibitory avoidance learning. Brain Research, 2000, 855, 199-205.	1.1	49
118	Modulation of working, short- and long-term memory by nicotinic receptors in the basolateral amygdala in rats. Neurobiology of Learning and Memory, 2005, 83, 113-118.	1.0	49
119	On how passive is inhibitory avoidance. Behavioral and Neural Biology, 1985, 43, 327-330.	2.3	48
120	The effect of cannabidiol on maximal electroshock seizures in rats. Journal of Pharmacy and Pharmacology, 2011, 25, 916-917.	1.2	48
121	Memory reconsolidation and its maintenance depend on L-voltage-dependent calcium channels and CaMKII functions regulating protein turnover in the hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6566-6570.	3.3	48
122	Learning-specific, time-dependent increase in [3H]phorbol dibutyrate binding to protein kinase C in selected regions of the rat brain. Brain Research, 1995, 685, 163-168.	1.1	47
123	NEUROSCIENCE: Zif and the Survival of Memory. Science, 2004, 304, 829-830.	6.0	47
124	Parallel memory processing by the CA1 region of the dorsal hippocampus and the basolateral amygdala. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10279-10284.	3.3	47
125	The role of histamine receptors in the consolidation of object recognition memory. Neurobiology of Learning and Memory, 2013, 103, 64-71.	1.0	47
126	Differential role of hippocampal cAMP-dependent protein kinase in short- and long-term memory. Neurochemical Research, 2000, 25, 621-626.	1.6	46

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127	Different time course for the memory facilitating effect of bicuculline in hippocampus, entorhinal cortex, and posterior parietal cortex of rats. Neurobiology of Learning and Memory, 2004, 82, 52-56.	1.0	46
128	A link between role of two prefrontal areas in immediate memory and in long-term memory consolidation. Neurobiology of Learning and Memory, 2007, 88, 160-166.	1.0	46
129	Altered behavioural response to acute stress in mice lacking cellular prion protein. Behavioural Brain Research, 2005, 162, 173-181.	1.2	43
130	The entorhinal cortex plays a role in extinction. Neurobiology of Learning and Memory, 2006, 85, 192-197.	1.0	43
131	Pharmacological Findings on the Biochemical Bases of Memory Processes: A General View. Neural Plasticity, 2004, 11, 159-189.	1.0	42
132	Retinol induces the ERK1/2-dependent phosphorylation of CREB through a pathway involving the generation of reactive oxygen species in cultured Sertoli cells. Cellular Signalling, 2006, 18, 1685-1694.	1.7	42
133	Relationship between short- and long-term memory and short- and long-term extinction. Neurobiology of Learning and Memory, 2005, 84, 25-32.	1.0	41
134	Histamine facilitates consolidation of fear extinction. International Journal of Neuropsychopharmacology, 2011, 14, 1209-1217.	1.0	41
135	Histamine in the basolateral amygdala promotes inhibitory avoidance learning independently of hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2536-42.	3.3	41
136	Blockade of adenosine A1 receptors in the posterior cingulate cortex facilitates memory in rats. European Journal of Pharmacology, 2002, 437, 151-154.	1.7	40
137	Effects of Gabapentin on Anxiety Induced by Simulated Public Speaking. Journal of Psychopharmacology, 2003, 17, 184-188.	2.0	40
138	Different Brain Areas Are Involved in Memory Expression at Different Times from Training. Neurobiology of Learning and Memory, 1996, 66, 97-101.	1.0	39
139	Temporary inactivation of the dorsal hippocampus induces a transient impairment in retrieval of aversive memory. Behavioural Brain Research, 2007, 180, 113-118.	1.2	39
140	Infusion of protein synthesis inhibitors in the entorhinal cortex blocks consolidation but not reconsolidation of object recognition memory. Neurobiology of Learning and Memory, 2009, 91, 466-472.	1.0	39
141	Cellular prion protein ablation impairs behavior as a function of age. NeuroReport, 2003, 14, 1375-1379.	0.6	38
142	Extinction learning, which consists of the inhibition of retrieval, can be learned without retrieval. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E230-3.	3.3	38
143	Interaction between consecutive learnings: inhibitory avoidance and habituation. Behavioral and Neural Biology, 1985, 44, 515-520.	2.3	37
144	Reversible Changes in Hippocampal3H-AMPA Binding Following Inhibitory Avoidance Training in the Rat. Neurobiology of Learning and Memory, 1996, 66, 85-88.	1.0	37

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145	Modulation of the extinction of fear learning. Brain Research Bulletin, 2014, 105, 61-69.	1.4	37
146	Effect of novel experiences on retention of inhibitory avoidance behavior in mice: The influence of previous exposure to the same or another experience. Behavioral and Neural Biology, 1987, 47, 109-115.	2.3	36
147	Guanosine impairs inhibitory avoidance performance in rats. NeuroReport, 2000, 11, 2537-2540.	0.6	36
148	Role of cellular prion protein on LTP expression in aged mice. Brain Research, 2006, 1097, 11-18.	1.1	36
149	Retrieval induces reconsolidation of fear extinction memory. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21801-21805.	3.3	36
150	Brain histamine modulates recognition memory: possible implications in major cognitive disorders. British Journal of Pharmacology, 2020, 177, 539-556.	2.7	36
151	Effect of the intraperitoneal and intracerebroventricular administration of ACTH, epinephrine, or Î2-endorphin on retrieval of an inhibitory avoidance task in rats. Behavioral and Neural Biology, 1984, 40, 119-122.	2.3	35
152	On brain lesions, the milkman and Sigmunda. Trends in Neurosciences, 1998, 21, 423-426.	4.2	35
153	Stimulators of the cAMP Cascade Reverse Amnesia Induced by Intra-amygdala but Not Intrahippocampal KN-62 Administration. Neurobiology of Learning and Memory, 1999, 71, 94-103.	1.0	35
154	ERK1/2 and CaMKII-mediated events in memory formation: Is 5HT regulation involved?. Behavioural Brain Research, 2008, 195, 120-128.	1.2	35
155	Pharmacological Findings Contribute to the Understanding of the Main Physiological Mechanisms of Memory Retrieval. CNS and Neurological Disorders, 2003, 2, 81-94.	4.3	35
156	The inhibition of acquired fear. Neurotoxicity Research, 2004, 6, 175-188.	1.3	34
157	Gene expression during memory formation. Neurotoxicity Research, 2004, 6, 189-203.	1.3	34
158	Oral administration of guanosine impairs inhibitory avoidance performance in rats and mice. Neurobiology of Learning and Memory, 2004, 81, 137-143.	1.0	34
159	Extinction and reacquisition of a fear-motivated memory require activity of the Src family of tyrosine kinases in the CA1 region of the hippocampus. Pharmacology Biochemistry and Behavior, 2005, 81, 139-145.	1.3	34
160	The molecular cascades of long-term potentiation underlie memory consolidation of one-trial avoidance in the CA1 region of the dorsal hippocampus, but not in the basolateral amygdala or the neocortex. Neurotoxicity Research, 2008, 14, 273-294.	1.3	34
161	Memory retrieval of inhibitory avoidance requires histamine H ₁ receptor activation in the hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2714-20.	3.3	34
162	Short- and long-term memory: differential involvement of neurotransmitter systems and signal transduction cascades. Anais Da Academia Brasileira De Ciencias, 2000, 72, 353-364.	0.3	33

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163	Novelty enhances retrieval of one-trial avoidance learning in rats 1 or 31 days after training unless the hippocampus is inactivated by different receptor antagonists and enzyme inhibitors. Behavioural Brain Research, 2000, 117, 215-220.	1.2	33
164	No evidence for oxidative damage in the hippocampus after acute and chronic electroshock in rats. Brain Research, 2004, 1014, 177-183.	1.1	33
165	The evidence for hippocampal long-term potentiation as a basis of memory for simple tasks. Anais Da Academia Brasileira De Ciencias, 2008, 80, 115-127.	0.3	33
166	Modulation of the storage of social recognition memory by neurotransmitter systems in the insular cortex. Behavioural Brain Research, 2017, 334, 129-134.	1.2	33
167	The role of carbonic anhydrases in extinction of contextual fear memory. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16000-16008.	3.3	33
168	Effects of cannabidiol and of diphenylhydantoin on the hippocampus and on learning. Psychopharmacology, 1973, 31, 167-175.	1.5	32
169	Behavioural effects of acute tryptophan depletion in healthy male volunteers. Journal of Psychopharmacology, 2000, 14, 157-163.	2.0	32
170	Exposure to novelty enhances retrieval of very remote memory in rats. Neurobiology of Learning and Memory, 2003, 79, 51-56.	1.0	32
171	Three main factors in rat shuttle behavior: Their pharmacology and sequential entry in operation during a two-way avoidance session. Psychopharmacology, 1976, 49, 145-157.	1.5	31
172	Experience-dependent increase in cAMP-responsive element binding protein in synaptic and nonsynaptic mitochondria of the rat hippocampus. European Journal of Neuroscience, 1999, 11, 3753-3756.	1.2	31
173	Learning-specific decrease in synaptosomal ATP diphosphohydrolase activity from hippocampus and entorhinal cortex of adult rats. Brain Research, 2000, 854, 253-256.	1.1	31
174	Memory formation requires p38MAPK activity in the rat hippocampus. NeuroReport, 2003, 14, 1989-1992.	0.6	30
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