

Eric R Kandel

List of Publications by Year in descending order

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200
papers

39,885
citations

2427

97
h-index

2629

194
g-index

210
all docs

210
docs citations

210
times ranked

25651
citing authors

#	ARTICLE	IF	CITATIONS
1	Subregion- and Cell Type- Restricted Gene Knockout in Mouse Brain. <i>Cell</i> , 1996, 87, 1317-1326.	28.9	1,207
2	Recombinant BDNF Rescues Deficits in Basal Synaptic Transmission and Hippocampal LTP in BDNF Knockout Mice. <i>Neuron</i> , 1996, 16, 1137-1145.	8.1	1,144
3	Genetic Demonstration of a Role for PKA in the Late Phase of LTP and in Hippocampus-Based Long-Term Memory. <i>Cell</i> , 1997, 88, 615-626.	28.9	1,125
4	Cognitive Neuroscience and the Study of Memory. <i>Neuron</i> , 1998, 20, 445-468.	8.1	1,117
5	The long and the short of long-term memory—a molecular framework. <i>Nature</i> , 1986, 322, 419-422.	27.8	1,007
6	Ablation of hippocampal neurogenesis impairs contextual fear conditioning and synaptic plasticity in the dentate gyrus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 17501-17506.	7.1	915
7	Chromatin Acetylation, Memory, and LTP Are Impaired in CBP+/- Mice. <i>Neuron</i> , 2004, 42, 947-959.	8.1	839
8	MORPHOLOGICAL AND FUNCTIONAL PROPERTIES OF IDENTIFIED NEURONS IN THE ABDOMINAL GANGLION OF <i>APLYSIA CALIFORNICA</i> . <i>Journal of Neurophysiology</i> , 1967, 30, 1288-1351.	1.8	833
9	The Molecular and Systems Biology of Memory. <i>Cell</i> , 2014, 157, 163-186.	28.9	833
10	Tissue-plasminogen activator is induced as an immediate-early gene during seizure, kindling and long-term potentiation. <i>Nature</i> , 1993, 361, 453-457.	27.8	771
11	The molecular biology of memory: cAMP, PKA, CRE, CREB-1, CREB-2, and C/EBP. <i>Molecular Brain</i> , 2012, 5, 14.	2.6	708
12	Injection of the cAMP-responsive element into the nucleus of Aplysia sensory neurons blocks long-term facilitation. <i>Nature</i> , 1990, 345, 718-721.	27.8	698
13	Synapse-Specific, Long-Term Facilitation of Aplysia Sensory to Motor Synapses: A Function for Local Protein Synthesis in Memory Storage. <i>Cell</i> , 1997, 91, 927-938.	28.9	693
14	Serotonin and cyclic AMP close single K ⁺ channels in Aplysia sensory neurones. <i>Nature</i> , 1982, 299, 413-417.	27.8	649
15	Long-term potentiation in the hippocampus is blocked by tyrosine kinase inhibitors. <i>Nature</i> , 1991, 353, 558-560.	27.8	552
16	MAP Kinase Translocates into the Nucleus of the Presynaptic Cell and Is Required for Long-Term Facilitation in Aplysia. <i>Neuron</i> , 1997, 18, 899-912.	8.1	535
17	Aplysia CREB2 represses long-term facilitation: Relief of repression converts transient facilitation into long-term functional and structural change. <i>Cell</i> , 1995, 83, 979-992.	28.9	530
18	Expression of Constitutively Active CREB Protein Facilitates the Late Phase of Long-Term Potentiation by Enhancing Synaptic Capture. <i>Cell</i> , 2002, 108, 689-703.	28.9	530

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19	A Neuronal Isoform of the Aplysia CPEB Has Prion-Like Properties. <i>Cell</i> , 2003, 115, 879-891.	28.9	526
20	C/EBP is an immediate-early gene required for the consolidation of long-term facilitation in Aplysia. <i>Cell</i> , 1994, 76, 1099-1114.	28.9	514
21	cAMP contributes to mossy fiber LTP by initiating both a covalently mediated early phase and macromolecular synthesis-dependent late phase. <i>Cell</i> , 1994, 79, 69-79.	28.9	479
22	A Role for Neuronal piRNAs in the Epigenetic Control of Memory-Related Synaptic Plasticity. <i>Cell</i> , 2012, 149, 693-707.	28.9	474
23	A Transient, Neuron-Wide Form of CREB-Mediated Long-Term Facilitation Can Be Stabilized at Specific Synapses by Local Protein Synthesis. <i>Cell</i> , 1999, 99, 221-237.	28.9	471
24	Integration of Long-Term-Memory-Related Synaptic Plasticity Involves Bidirectional Regulation of Gene Expression and Chromatin Structure. <i>Cell</i> , 2002, 111, 483-493.	28.9	466
25	Abolition of Long-Term Stability of New Hippocampal Place Cell Maps by NMDA Receptor Blockade. <i>Science</i> , 1998, 280, 2121-2126.	12.6	458
26	Learning to Modulate Transmitter Release: Themes and Variations in Synaptic Plasticity. <i>Annual Review of Neuroscience</i> , 1993, 16, 625-665.	10.7	447
27	Inducible and Reversible Enhancement of Learning, Memory, and Long-Term Potentiation by Genetic Inhibition of Calcineurin. <i>Cell</i> , 2001, 104, 675-686.	28.9	440
28	Dopamine release from the locus coeruleus to the dorsal hippocampus promotes spatial learning and memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14835-14840.	7.1	438
29	Different Training Procedures Recruit Either One or Two Critical Periods for Contextual Memory Consolidation, Each of Which Requires Protein Synthesis and PKA. <i>Learning and Memory</i> , 1998, 5, 365-374.	1.3	429
30	Reversible Inhibition of CREB/ATF Transcription Factors in Region CA1 of the Dorsal Hippocampus Disrupts Hippocampus-Dependent Spatial Memory. <i>Neuron</i> , 2002, 34, 447-462.	8.1	425
31	Activation of cAMP-Responsive genes by stimuli that produce long-term facilitation in aplysia sensory neurons. <i>Neuron</i> , 1993, 10, 427-435.	8.1	393
32	A Neuronal Isoform of CPEB Regulates Local Protein Synthesis and Stabilizes Synapse-Specific Long-Term Facilitation in Aplysia. <i>Cell</i> , 2003, 115, 893-904.	28.9	390
33	Characterization of Small RNAs in Aplysia Reveals a Role for miR-124 in Constraining Synaptic Plasticity through CREB. <i>Neuron</i> , 2009, 63, 803-817.	8.1	374
34	Nitric Oxide Acts Directly in the Presynaptic Neuron to Produce Long-Term Potentiation in Cultured Hippocampal Neurons. <i>Cell</i> , 1996, 87, 1025-1035.	28.9	372
35	Is Heterosynaptic modulation essential for stabilizing hebbian plasticity and memory. <i>Nature Reviews Neuroscience</i> , 2000, 1, 11-20.	10.2	369
36	Synapses and Memory Storage. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a005751-a005751.	5.5	366

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37	Aplysia CPEB Can Form Prion-like Multimers in Sensory Neurons that Contribute to Long-Term Facilitation. <i>Cell</i> , 2010, 140, 421-435.	28.9	360
38	Ubiquitin C-Terminal Hydrolase Is an Immediate-Early Gene Essential for Long-Term Facilitation in Aplysia. <i>Cell</i> , 1997, 89, 115-126.	28.9	352
39	Genetic and Pharmacological Evidence for a Novel, Intermediate Phase of Long-Term Potentiation Suppressed by Calcineurin. <i>Cell</i> , 1998, 92, 25-37.	28.9	338
40	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.	28.9	336
41	CREB1 Encodes a Nuclear Activator, a Repressor, and a Cytoplasmic Modulator that Form a Regulatory Unit Critical for Long-Term Facilitation. <i>Cell</i> , 1998, 95, 211-223.	28.9	332
42	Postsynaptic Induction and PKA-Dependent Expression of LTP in the Lateral Amygdala. <i>Neuron</i> , 1998, 21, 169-178.	8.1	310
43	Neuronal Transcriptome of Aplysia: Neuronal Compartments and Circuitry. <i>Cell</i> , 2006, 127, 1453-1467.	28.9	310
44	ERK Plays a Regulatory Role in Induction of LTP by Theta Frequency Stimulation and Its Modulation by β -Adrenergic Receptors. <i>Neuron</i> , 1999, 24, 715-726.	8.1	300
45	Roles of PKA and PKC in facilitation of evoked and spontaneous transmitter release at depressed and nondepressed synapses in aplysia sensory neurons. <i>Neuron</i> , 1992, 9, 479-489.	8.1	296
46	A Molecular Basis for Nicotine as a Gateway Drug. <i>New England Journal of Medicine</i> , 2014, 371, 932-943.	27.0	293
47	Memory Suppressor Genes: Inhibitory Constraints on the Storage of Long-Term Memory. <i>Science</i> , 1998, 279, 338-341.	12.6	288
48	Presynaptic BDNF Required for a Presynaptic but Not Postsynaptic Component of LTP at Hippocampal CA1-CA3 Synapses. <i>Neuron</i> , 2003, 39, 975-990.	8.1	288
49	A genetic test of the effects of mutations in PKA on mossy fiber ltp and its relation to spatial and contextual learning. <i>Cell</i> , 1995, 83, 1211-1222.	28.9	285
50	Structural Components of Synaptic Plasticity and Memory Consolidation. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a021758.	5.5	279
51	NOBEL LECTURE: The Molecular Biology of Memory Storage: A Dialog Between Genes and Synapses. <i>Bioscience Reports</i> , 2001, 21, 565-611.	2.4	278
52	The Regulation of Transcription in Memory Consolidation. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a021741.	5.5	269
53	A Macromolecular Synthesis-Dependent Late Phase of Long-Term Potentiation Requiring cAMP in the Medial Perforant Pathway of Rat Hippocampal Slices. <i>Journal of Neuroscience</i> , 1996, 16, 3189-3198.	3.6	255
54	Positive and negative regulatory mechanisms that mediate long-term memory storage ¹ Published on the World Wide Web on 13 January 1998.1. <i>Brain Research Reviews</i> , 1998, 26, 360-378.	9.0	252

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55	The Persistence of Long-Term Memory. <i>Neuron</i> , 2004, 44, 49-57.	8.1	250
56	Inducible Enhancement of Memory Storage and Synaptic Plasticity in Transgenic Mice Expressing an Inhibitor of ATF4 (CREB-2) and C/EBP Proteins. <i>Neuron</i> , 2003, 39, 655-669.	8.1	247
57	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.	28.9	243
58	Molecular Mechanism for a Gateway Drug: Epigenetic Changes Initiated by Nicotine Prime Gene Expression by Cocaine. <i>Science Translational Medicine</i> , 2011, 3, 107ra109.	12.4	243
59	Inducible and Reversible Gene Expression with the rtTA System for the Study of Memory. <i>Neuron</i> , 1998, 21, 257-265.	8.1	239
60	A novel intermediate stage in the transition between short- and long-term facilitation in the sensory to motor neuron synapse of aplysia. <i>Neuron</i> , 1995, 14, 413-420.	8.1	233
61	Local protein synthesis and its role in synapse-specific plasticity. <i>Current Opinion in Neurobiology</i> , 2000, 10, 587-592.	4.2	226
62	Essential Role of Coiled Coils for Aggregation and Activity of Q/N-Rich Prions and PolyQ Proteins. <i>Cell</i> , 2010, 143, 1121-1135.	28.9	223
63	Strain-dependent Differences in LTP and Hippocampus-dependent Memory in Inbred Mice. <i>Learning and Memory</i> , 2000, 7, 170-179.	1.3	215
64	Transient expansion of synaptically connected dendritic spines upon induction of hippocampal long-term potentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16665-16670.	7.1	213
65	Molecular Mechanisms of Memory Storage in <i>Aplysia</i> . <i>Biological Bulletin</i> , 2006, 210, 174-191.	1.8	209
66	Neuroscience thinks big (and collaboratively). <i>Nature Reviews Neuroscience</i> , 2013, 14, 659-664.	10.2	206
67	An Analysis of Dishabituation and Sensitization of The Gill-Withdrawal Reflex In <i>Aplysia</i> . <i>International Journal of Neuroscience</i> , 1971, 2, 79-98.	1.6	196
68	Recruitment of New Sites of Synaptic Transmission During the cAMP-Dependent Late Phase of LTP at CA3-CA1 Synapses in the Hippocampus. <i>Neuron</i> , 1997, 19, 635-651.	8.1	195
69	Cpr158 mediates osteocalcin's regulation of cognition. <i>Journal of Experimental Medicine</i> , 2017, 214, 2859-2873.	8.5	194
70	Presynaptic and Postsynaptic Roles of NO, cGK, and RhoA in Long-Lasting Potentiation and Aggregation of Synaptic Proteins. <i>Neuron</i> , 2005, 45, 389-403.	8.1	193
71	A circuit from hippocampal CA2 to lateral septum disinhibits social aggression. <i>Nature</i> , 2018, 564, 213-218.	27.8	184
72	Inhibitors of protein and RNA synthesis block structural changes that accompany long-term heterosynaptic plasticity in <i>Aplysia</i> . <i>Neuron</i> , 1992, 9, 749-758.	8.1	182

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73	Activity-Dependent Presynaptic Facilitation and Hebbian LTP Are Both Required and Interact during Classical Conditioning in <i>Aplysia</i> . <i>Neuron</i> , 2003, 37, 135-147.	8.1	181
74	The Persistence of Hippocampal-Based Memory Requires Protein Synthesis Mediated by the Prion-like Protein CPEB3. <i>Neuron</i> , 2015, 86, 1433-1448.	8.1	180
75	The Biology of Memory: A Forty-Year Perspective. <i>Journal of Neuroscience</i> , 2009, 29, 12748-12756.	3.6	179
76	Mechanisms for Generating the Autonomous cAMP-Dependent Protein Kinase Required for Long-Term Facilitation in <i>Aplysia</i> . <i>Neuron</i> , 1999, 22, 147-156.	8.1	173
77	Mutation in the Phosphorylation Sites of MAP Kinase Blocks Learning-Related Internalization of apCAM in <i>Aplysia</i> Sensory Neurons. <i>Neuron</i> , 1997, 18, 913-924.	8.1	172
78	CREB, memory enhancement and the treatment of memory disorders: promises, pitfalls and prospects. <i>Expert Opinion on Therapeutic Targets</i> , 2003, 7, 101-114.	3.4	172
79	Two previously undescribed members of the mouse CPEB family of genes and their inducible expression in the principal cell layers of the hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9602-9607.	7.1	171
80	Neuralized1 Activates CPEB3: A Function for Nonproteolytic Ubiquitin in Synaptic Plasticity and Memory Storage. <i>Cell</i> , 2011, 147, 1369-1383.	28.9	170
81	Parallel processing of short-term memory for sensitization in <i>Aplysia</i> . <i>Journal of Neurobiology</i> , 1988, 19, 297-334.	3.6	168
82	Cell Adhesion Molecules, CREB, and the Formation of New Synaptic Connections. <i>Neuron</i> , 1996, 17, 567-570.	8.1	162
83	The Molecular Biology of Memory Storage: A Dialog Between Genes and Synapses. <i>Bioscience Reports</i> , 2004, 24, 475-522.	2.4	160
84	Rapid Increase in Clusters of Presynaptic Proteins at Onset of Long-Lasting Potentiation. <i>Science</i> , 2001, 294, 1547-1550.	12.6	152
85	Molecular Mechanisms of the Memory Trace. <i>Trends in Neurosciences</i> , 2019, 42, 14-22.	8.6	148
86	Cyclic AMP induces functional presynaptic boutons in hippocampal CA3-CA1 neuronal cultures. <i>Nature Neuroscience</i> , 1999, 2, 24-30.	14.8	146
87	Selective Modulation of Some Forms of Schaffer Collateral-CA1 Synaptic Plasticity in Mice With a Disruption of the CPEB-1 Gene. <i>Learning and Memory</i> , 2004, 11, 318-327.	1.3	142
88	Involvement of Presynaptic and Postsynaptic Mechanisms in a Cellular Analog of Classical Conditioning at <i>Aplysia</i> Sensory-Motor Neuron Synapses in Isolated Cell Culture. <i>Journal of Neuroscience</i> , 1998, 18, 458-466.	3.6	140
89	The Emergence of Modern Neuroscience: Some Implications for Neurology and Psychiatry. <i>Annual Review of Neuroscience</i> , 2000, 23, 343-391.	10.7	140
90	Persistent and transcriptionally-dependent increase in protein phosphorylation in long-term facilitation of <i>Aplysia</i> sensory neurons. <i>Nature</i> , 1989, 339, 51-54.	27.8	135

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91	Sustained CPEB-Dependent Local Protein Synthesis Is Required to Stabilize Synaptic Growth for Persistence of Long-Term Facilitation in Aplysia. <i>Neuron</i> , 2008, 59, 1024-1036.	8.1	127
92	Presynaptic Activation of Silent Synapses and Growth of New Synapses Contribute to Intermediate and Long-Term Facilitation in Aplysia. <i>Neuron</i> , 2003, 40, 151-165.	8.1	125
93	Attention Enhances the Retrieval and Stability of Visuospatial and Olfactory Representations in the Dorsal Hippocampus. <i>PLoS Biology</i> , 2009, 7, e1000140.	5.6	122
94	Parallel Instabilities of Long-Term Potentiation, Place Cells, and Learning Caused by Decreased Protein Kinase A Activity. <i>Journal of Neuroscience</i> , 2000, 20, 8096-8102.	3.6	116
95	SUMOylation Is an Inhibitory Constraint that Regulates the Prion-like Aggregation and Activity of CPEB3. <i>Cell Reports</i> , 2015, 11, 1694-1702.	6.4	116
96	The Neurobiology of Fear Generalization. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 329.	2.0	116
97	Chapter 10 Synaptic remodeling, synaptic growth and the storage of long-term memory in Aplysia. <i>Progress in Brain Research</i> , 2008, 169, 179-198.	1.4	109
98	The CPEB3 Protein Is a Functional Prion that Interacts with the Actin Cytoskeleton. <i>Cell Reports</i> , 2015, 11, 1772-1785.	6.4	109
99	The past, the future and the biology of memory storage. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1999, 354, 2027-2052.	4.0	106
100	Involvement of Pre- and Postsynaptic Mechanisms in Posttetanic Potentiation at Aplysia Synapses. <i>Science</i> , 1997, 275, 969-973.	12.6	103
101	Transgenic approaches to cognition. <i>Current Opinion in Neurobiology</i> , 1995, 5, 141-148.	4.2	101
102	Molecular Mechanism for Age-Related Memory Loss: The Histone-Binding Protein RbAp48. <i>Science Translational Medicine</i> , 2013, 5, 200ra115.	12.4	99
103	Serotonin-Induced Regulation of the Actin Network for Learning-Related Synaptic Growth Requires Cdc42, N-WASP, and PAK in Aplysia Sensory Neurons. <i>Neuron</i> , 2005, 45, 887-901.	8.1	95
104	The Role of Functional Prion-Like Proteins in the Persistence of Memory. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a021774.	5.5	95
105	Cyclic Adenosine Monophosphate in the Nervous System of Aplysia californica. <i>Journal of General Physiology</i> , 1972, 60, 558-569.	1.9	94
106	A Simplified Preparation for Relating Cellular Events to Behavior: Mechanisms Contributing to Habituation, Dishabituation, and Sensitization of the Aplysia Gill-Withdrawal Reflex. <i>Journal of Neuroscience</i> , 1997, 17, 2886-2899.	3.6	90
107	The Contribution of Activity-Dependent Synaptic Plasticity to Classical Conditioning in <i>Aplysia</i> . <i>Journal of Neuroscience</i> , 2001, 21, 6413-6422.	3.6	86
108	Neurexin-Neuroigin Transsynaptic Interaction Mediates Learning-Related Synaptic Remodeling and Long-Term Facilitation in Aplysia. <i>Neuron</i> , 2011, 70, 468-481.	8.1	86

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109	p38 MAP Kinase Mediates Both Short-Term and Long-Term Synaptic Depression in <i>Aplysia</i> . <i>Journal of Neuroscience</i> , 2003, 23, 7317-7325.	3.6	84
110	A New Component in Synaptic Plasticity: Upregulation of Kinesin in the Neurons of the Gill-Withdrawal Reflex. <i>Cell</i> , 2008, 135, 960-973.	28.9	83
111	Learning-induced and stathmin-dependent changes in microtubule stability are critical for memory and disrupted in ageing. <i>Nature Communications</i> , 2014, 5, 4389.	12.8	81
112	A Molecular Switch for the Consolidation of Long-Term Memory: cAMP-Inducible Gene Expression. <i>Annals of the New York Academy of Sciences</i> , 1995, 758, 261-286.	3.8	80
113	TIA-1 Self-Multimerization, Phase Separation, and Recruitment into Stress Granules Are Dynamically Regulated by Zn ²⁺ . <i>Cell Reports</i> , 2018, 22, 59-71.	6.4	80
114	A Quantitative Study of the Ca ²⁺ /Calmodulin Sensitivity of Adenylyl Cyclase in <i>Aplysia</i> , <i>Drosophila</i> , and Rat. <i>Journal of Neurochemistry</i> , 1992, 59, 1736-1744.	3.9	79
115	New mechanisms in memory storage: piRNAs and epigenetics. <i>Trends in Neurosciences</i> , 2013, 36, 535-542.	8.6	78
116	Roles for small noncoding RNAs in silencing of retrotransposons in the mammalian brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12697-12702.	7.1	77
117	A cellular model of memory reconsolidation involves reactivation-induced destabilization and restabilization at the sensorimotor synapse in <i>Aplysia</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14200-14205.	7.1	76
118	Characterization of prion-like conformational changes of the neuronal isoform of <i>Aplysia</i> CPEB. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 495-501.	8.2	73
119	Transcriptional regulation of long-term memory in the marine snail <i>Aplysia</i> . <i>Molecular Brain</i> , 2008, 1, 3.	2.6	72
120	Functional Role of Tia1/Pub1 and Sup35 Prion Domains: Directing Protein Synthesis Machinery to the Tubulin Cytoskeleton. <i>Molecular Cell</i> , 2014, 55, 305-318.	9.7	71
121	Genes, synapses, and long-term memory. <i>Journal of Cellular Physiology</i> , 1997, 173, 124-125.	4.1	70
122	MicroRNA-22 Gates Long-Term Heterosynaptic Plasticity in <i>Aplysia</i> through Presynaptic Regulation of CPEB and Downstream Targets. <i>Cell Reports</i> , 2015, 11, 1866-1875.	6.4	69
123	CPEB3 inhibits translation of mRNA targets by localizing them to P bodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18078-18087.	7.1	69
124	Enhancement of Memory-Related Long-Term Facilitation by ApAF, a Novel Transcription Factor that Acts Downstream from Both CREB1 and CREB2. <i>Cell</i> , 2000, 103, 595-608.	28.9	64
125	Capture of the Late Phase of Long-Term Potentiation within and across the Apical and Basilar Dendritic Compartments of CA1 Pyramidal Neurons: Synaptic Tagging Is Compartment Restricted. <i>Journal of Neuroscience</i> , 2006, 26, 256-264.	3.6	64
126	The Contribution of Facilitation of Monosynaptic PSPs to Dishabituation and Sensitization of the <i>Aplysia</i> Siphon Withdrawal Reflex. <i>Journal of Neuroscience</i> , 1999, 19, 10438-10450.	3.6	63

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127	A genetic switch for long-term memory. <i>Comptes Rendus De L'Académie Des Sciences Série 3, Sciences De La Vie</i> , 1998, 321, 91-96.	0.8	61
128	Increased dopamine D2 receptor activity in the striatum alters the firing pattern of dopamine neurons in the ventral tegmental area. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1498-506.	7.1	56
129	RbAp48 Protein Is a Critical Component of GPR158/OCN Signaling and Ameliorates Age-Related Memory Loss. <i>Cell Reports</i> , 2018, 25, 959-973.e6.	6.4	56
130	Memory and behavior: a second generation of genetically modified mice. <i>Current Biology</i> , 1997, 7, R580-R589.	3.9	55
131	FMRamide reverses protein phosphorylation produced by 5-HT and cAMP in <i>Aplysia</i> sensory neurons. <i>Nature</i> , 1989, 342, 275-278.	27.8	53
132	Presynaptic and Postsynaptic Mechanisms of Synaptic Plasticity and Metaplasticity during Intermediate-Term Memory Formation in <i>Aplysia</i> . <i>Journal of Neuroscience</i> , 2010, 30, 5781-5791.	3.6	53
133	3D neuronal mitochondrial morphology in axons, dendrites, and somata of the aging mouse hippocampus. <i>Cell Reports</i> , 2021, 36, 109509.	6.4	52
134	A Simplified Preparation for Relating Cellular Events to Behavior: Contribution of LE and Unidentified Siphon Sensory Neurons to Mediation and Habituation of the <i>Aplysia</i> Gill- and Siphon-Withdrawal Reflex. <i>Journal of Neuroscience</i> , 1997, 17, 2900-2913.	3.6	50
135	Cognitive neuroscience. <i>Current Opinion in Neurobiology</i> , 2000, 10, 612-624.	4.2	50
136	Nuclear Translocation of CAM-Associated Protein Activates Transcription for Long-Term Facilitation in <i>Aplysia</i> . <i>Cell</i> , 2007, 129, 801-812.	28.9	50
137	Dopamine Regulation of Amygdala Inhibitory Circuits for Expression of Learned Fear. <i>Neuron</i> , 2015, 88, 378-389.	8.1	49
138	Identification of a serotonin receptor coupled to adenylyl cyclase involved in learning-related heterosynaptic facilitation in <i>Aplysia</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14634-14639.	7.1	48
139	PP2A methylation controls sensitivity and resistance to β -amyloid-induced cognitive and electrophysiological impairments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3347-3352.	7.1	48
140	Reductionism in Art and Brain Science. , 2016, , .		48
141	A direct lateral entorhinal cortex to hippocampal CA2 circuit conveys social information required for social memory. <i>Neuron</i> , 2022, 110, 1559-1572.e4.	8.1	48
142	Selective Overexpression of Dopamine D3 Receptors in the Striatum Disrupts Motivation but not Cognition. <i>Biological Psychiatry</i> , 2014, 76, 823-831.	1.3	45
143	Prior alcohol use enhances vulnerability to compulsive cocaine self-administration by promoting degradation of HDAC4 and HDAC5. <i>Science Advances</i> , 2017, 3, e1701682.	10.3	45
144	A Single <i>Aplysia</i> Neurotrophin Mediates Synaptic Facilitation via Differentially Processed Isoforms. <i>Cell Reports</i> , 2013, 3, 1213-1227.	6.4	44

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