Eric R Kandel

List of Publications by Year in Descending Order

203 papers	33,992 citations	92 h-index	184 g-index
210 ext. papers	37,228 ext. citations	18.3 avg, IF	7.2 L-index

#	Paper	IF	Citations
203	A direct lateral entorhinal cortex to hippocampal CA2 circuit conveys social information required for social memory.. *Neuron*, **2022**,	13.9	6
202	A fast, aqueous, reversible three-day tissue clearing method for adult and embryonic mouse brain and whole body.. *Cell Reports Methods*, **2021**, 1, 100090		1
201	Deep brain stimulation of the nucleus accumbens shell attenuates cocaine withdrawal but increases cocaine self-administration, cocaine-induced locomotor activity, and GluR1/GluA1 in the central nucleus of the amygdala in male cocaine-dependent rats. *Brain Stimulation*, **2021**, 15, 13-22	5.1	1
200	Enkephalin release from VIP interneurons in the hippocampal CA2/3a region mediates heterosynaptic plasticity and social memory. *Molecular Psychiatry*, **2021**,	15.1	3
199	Possible novel features of synaptic regulation during long-term facilitation in. *Learning and Memory* , **2021**, 28, 218-227	2.8	1
198	Loss of retinoid X receptor gamma subunit impairs group 1 mGluR mediated electrophysiological responses and group 1 mGluR dependent behaviors. *Scientific Reports*, **2021**, 11, 5552	4.9	2
197	3D neuronal mitochondrial morphology in axons, dendrites, and somata of the aging mouse hippocampus. *Cell Reports*, **2021**, 36, 109509	10.6	8
196	Ubiquitination and SUMOylation of Amyloid and Amyloid-like Proteins in Health and Disease. *Current Issues in Molecular Biology*, **2020**, 35, 195-230	2.9	1
195	Micellar TIA1 with folded RNA binding domains as a model for reversible stress granule formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 31832-31837	11.5	4
194	Cytoplasmic Polyadenylation Element Binding Proteins CPEB1 and CPEB3 Regulate the Translation of FosB and Are Required for Maintaining Addiction-Like Behaviors Induced by Cocaine. *Frontiers in Cellular Neuroscience*, **2020**, 14, 207	6.1	
193	An objective evaluation of the beholderR response to abstract and figurative art based on construal level theory. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 19809-19815	11.5	4
192	Single-nucleotide polymorphism in the human TIA1 gene interacts with stressful life events to predict the development of pathological anxiety symptoms in a Swedish population. *Journal of Affective Disorders*, **2020**, 260, 597-603	6.6	1
191	Cannabinoid exposure in rat adolescence reprograms the initial behavioral, molecular, and epigenetic response to cocaine. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 9991-10002	11.5	22
190	Comparison of the ionic currents modulated during activity-dependent and normal presynaptic facilitation. *Learning and Memory*, **2019**, 26, 449-454	2.8	
189	Serotonin Induces Structural Plasticity of Both Extrinsic Modulating and Intrinsic Mediating Circuits In Vitro in Aplysia Californica. *Cell Reports*, **2019**, 28, 2955-2965.e3	10.6	4
188	Sex Differences in Remote Contextual Fear Generalization in Mice. *Frontiers in Behavioral Neuroscience*, **2019**, 13, 56	3.5	11
187	Genetic Perturbation of TIA1 Reveals a Physiological Role in Fear Memory. *Cell Reports*, **2019**, 26, 2970-2983.e4	10.6	7

186	CPEB3 inhibits translation of mRNA targets by localizing them to P bodies. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 18078-18087	11.5	38
185	Molecular Mechanisms of the Memory Trace. *Trends in Neurosciences*, **2019**, 42, 14-22	13.3	74
184	TIA-1 Self-Multimerization, Phase Separation, and Recruitment into Stress Granules Are Dynamically Regulated by Zn. *Cell Reports*, **2018**, 22, 59-71	10.6	49
183	Cannabinoid Modulation of Eukaryotic Initiation Factors (eIF2 and eIF2B1) and Behavioral Cross-Sensitization to Cocaine in Adolescent Rats. *Cell Reports*, **2018**, 22, 2909-2923	10.6	12
182	Designing a norepinephrine optical tracer for imaging individual noradrenergic synapses and their activity in vivo. *Nature Communications*, **2018**, 9, 2838	17.4	26
181	Impaired recruitment of dopamine neurons during working memory in mice with striatal D2 receptor overexpression. *Nature Communications*, **2018**, 9, 2822	17.4	18
180	The Neurobiology of Fear Generalization. *Frontiers in Behavioral Neuroscience*, **2018**, 12, 329	3.5	50
179	Autocrine signaling by an neurotrophin forms a presynaptic positive feedback loop. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E11168-E11177	11.5	4
178	A circuit from hippocampal CA2 to lateral septum disinhibits social aggression. *Nature*, **2018**, 564, 213-218	50.4	82
177	RbAp48 Protein Is a Critical Component of GPR158/OCN Signaling and Ameliorates Age-Related Memory Loss. *Cell Reports*, **2018**, 25, 959-973.e6	10.6	27
176	Anterograde and retrograde signaling by an neurotrophin forms a transsynaptic functional unit. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E10951-E10960	11.5	6
175	Adolescent cannabinoid exposure induces irritability-like behavior and cocaine cross-sensitization without affecting the escalation of cocaine self-administration in adulthood. *Scientific Reports*, **2018**, 8, 13893	4.9	13
174	The Class II Histone Deacetylase Hypothesis of Addiction. *Biological Psychiatry*, **2018**, 84, 165-166	7.9	1
173	TIA-1 Is a Functional Prion-Like Protein. *Cold Spring Harbor Perspectives in Biology*, **2017**, 9,	10.2	9
172	Prior alcohol use enhances vulnerability to compulsive cocaine self-administration by promoting degradation of HDAC4 and HDAC5. *Science Advances*, **2017**, 3, e1701682	14.3	33
171	A Comparative Analysis of the Molecular Mechanisms Contributing to Implicit and Explicit Memory Storage in Aplysia and in the Hippocampus ? **2017**, 5-31		3
170	Gpr158 mediates osteocalcin's regulation of cognition. *Journal of Experimental Medicine*, **2017**, 214, 2859-2873	12.8	124
169	Functional Prions in the Brain. *Cold Spring Harbor Perspectives in Biology*, **2017**, 9,	10.2	18

168	Presynaptic Mechanisms of Plasticity and Memory in Aplysia and Other Learning-Related Experimental Systems **2017**, 435-452		
167	Roles for small noncoding RNAs in silencing of retrotransposons in the mammalian brain. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 12697-12702	11.5	52
166	ApCPEB4, a non-prion domain containing homolog of ApCPEB, is involved in the initiation of long-term facilitation. *Molecular Brain*, **2016**, 9, 91	4.5	3
165	PP2A methylation controls sensitivity and resistance to β-amyloid-induced cognitive and electrophysiological impairments. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 3347-52	11.5	34
164	Reductionism in Art and Brain Science **2016**,		23
163	Dopamine release from the locus coeruleus to the dorsal hippocampus promotes spatial learning and memory. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 14835-14840	11.5	265
162	The Role of Functional Prion-Like Proteins in the Persistence of Memory. *Cold Spring Harbor Perspectives in Biology*, **2016**, 8, a021774	10.2	64
161	Structural Components of Synaptic Plasticity and Memory Consolidation. *Cold Spring Harbor Perspectives in Biology*, **2015**, 7, a021758	10.2	202
160	The CPEB3 Protein Is a Functional Prion that Interacts with the Actin Cytoskeleton. *Cell Reports*, **2015**, 11, 1772-85	10.6	79
159	SUMOylation Is an Inhibitory Constraint that Regulates the Prion-like Aggregation and Activity of CPEB3. *Cell Reports*, **2015**, 11, 1694-702	10.6	72
158	The impact of motivation on cognitive performance in an animal model of the negative and cognitive symptoms of schizophrenia. *Behavioral Neuroscience*, **2015**, 129, 292-9	2.1	15
157	Dopamine Regulation of Amygdala Inhibitory Circuits for Expression of Learned Fear. *Neuron*, **2015**, 88, 378-89	13.9	31
156	MicroRNA-22 Gates Long-Term Heterosynaptic Plasticity in Aplysia through Presynaptic Regulation of CPEB and Downstream Targets. *Cell Reports*, **2015**, 11, 1866-75	10.6	49
155	Improving temporal cognition by enhancing motivation. *Behavioral Neuroscience*, **2015**, 129, 576-88	2.1	16
154	Orbitofrontal cortex mediates the differential impact of signaled-reward probability on discrimination accuracy. *Frontiers in Neuroscience*, **2015**, 9, 230	5.1	12
153	The Persistence of Hippocampal-Based Memory Requires Protein Synthesis Mediated by the Prion-like Protein CPEB3. *Neuron*, **2015**, 86, 1433-48	13.9	117
152	Increased dopamine D2 receptor activity in the striatum alters the firing pattern of dopamine neurons in the ventral tegmental area. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E1498-506	11.5	45
151	Persistence of Memory and Prion Mechanisms: A Perspective. *FASEB Journal*, **2015**, 29, 204.1	0.9	

150	The regulation of transcription in memory consolidation. *Cold Spring Harbor Perspectives in Biology*, **2014**, 7, a021741	10.2	162
149	Republication of The Journal of Physiology (2009) 587, 2733-2741: an introduction to the work of David Hubel and Torsten Wiesel. *Journal of Physiology*, **2014**, 592, 2-10	3.9	1
148	Shattuck Lecture. A molecular basis for nicotine as a gateway drug. *New England Journal of Medicine*, **2014**, 371, 932-43	59.2	229
147	Learning-induced and stathmin-dependent changes in microtubule stability are critical for memory and disrupted in ageing. *Nature Communications*, **2014**, 5, 4389	17.4	52
146	Functional role of Tia1/Pub1 and Sup35 prion domains: directing protein synthesis machinery to the tubulin cytoskeleton. *Molecular Cell*, **2014**, 55, 305-18	17.6	58
145	Selective overexpression of dopamine D3 receptors in the striatum disrupts motivation but not cognition. *Biological Psychiatry*, **2014**, 76, 823-31	7.9	37
144	Differential contribution of TRPM4 and TRPM5 nonselective cation channels to the slow afterdepolarization in mouse prefrontal cortex neurons. *Frontiers in Cellular Neuroscience*, **2014**, 8, 267	6.1	26
143	A place and a grid in the sun. *Cell*, **2014**, 159, 1239-42	56.2	4
142	The molecular and systems biology of memory. *Cell*, **2014**, 157, 163-86	56.2	563
141	Huntingtin is critical both pre- and postsynaptically for long-term learning-related synaptic plasticity in Aplysia. *PLoS ONE*, **2014**, 9, e103004	3.7	15
140	Neuroscience thinks big (and collaboratively). *Nature Reviews Neuroscience*, **2013**, 14, 659-64	13.5	153
139	A single Aplysia neurotrophin mediates synaptic facilitation via differentially processed isoforms. *Cell Reports*, **2013**, 3, 1213-27	10.6	39
138	The new science of mind and the future of knowledge. *Neuron*, **2013**, 80, 546-60	13.9	23
137	Molecular mechanism for age-related memory loss: the histone-binding protein RbAp48. *Science Translational Medicine*, **2013**, 5, 200ra115	17.5	80
136	Characterization of prion-like conformational changes of the neuronal isoform of Aplysia CPEB. *Nature Structural and Molecular Biology*, **2013**, 20, 495-501	17.6	53
135	New mechanisms in memory storage: piRNAs and epigenetics. *Trends in Neurosciences*, **2013**, 36, 535-42	13.3	72
134	A cellular model of memory reconsolidation involves reactivation-induced destabilization and restabilization at the sensorimotor synapse in Aplysia. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 14200-5	11.5	65
133	A role for neuronal piRNAs in the epigenetic control of memory-related synaptic plasticity. *Cell*, **2012**, 149, 693-707	56.2	399

132	Synapses and memory storage. *Cold Spring Harbor Perspectives in Biology*, **2012**, 4,	10.2	275
131	The molecular biology of memory: cAMP, PKA, CRE, CREB-1, CREB-2, and CPEB. *Molecular Brain*, **2012**, 5, 14	4.5	533
130	Spontaneous transmitter release is critical for the induction of long-term and intermediate-term facilitation in Aplysia. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 9131-6	11.5	26
129	Spontaneous transmitter release recruits postsynaptic mechanisms of long-term and intermediate-term facilitation in Aplysia. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 9137-42	11.5	34
128	Learning-related synaptic growth mediated by internalization of Aplysia cell adhesion molecule is controlled by membrane phosphatidylinositol 4,5-bisphosphate synthetic pathway. *Journal of Neuroscience*, **2012**, 32, 16296-305	6.6	12
127	Neuralized1 activates CPEB3: a function for nonproteolytic ubiquitin in synaptic plasticity and memory storage. *Cell*, **2011**, 147, 1369-83	56.2	136
126	Molecular mechanism for a gateway drug: epigenetic changes initiated by nicotine prime gene expression by cocaine. *Science Translational Medicine*, **2011**, 3, 107ra109	17.5	187
125	Neurexin-neuroligin transsynaptic interaction mediates learning-related synaptic remodeling and long-term facilitation in aplysia. *Neuron*, **2011**, 70, 468-81	13.9	79
124	Whereas short-term facilitation is presynaptic, intermediate-term facilitation involves both presynaptic and postsynaptic protein kinases and protein synthesis. *Learning and Memory*, **2011**, 18, 96-102	2.8	39
123	An interview with Eric Kandel by Brian Robertson. *Journal of Physiology*, **2010**, 588, 743-5	3.9	
122	Presynaptic and postsynaptic mechanisms of synaptic plasticity and metaplasticity during intermediate-term memory formation in Aplysia. *Journal of Neuroscience*, **2010**, 30, 5781-91	6.6	48
121	Aplysia CPEB can form prion-like multimers in sensory neurons that contribute to long-term facilitation. *Cell*, **2010**, 140, 421-35	56.2	288
120	Essential role of coiled coils for aggregation and activity of Q/N-rich prions and PolyQ proteins. *Cell* , **2010**, 143, 1121-35	56.2	179
119	Identification of a serotonin receptor coupled to adenylyl cyclase involved in learning-related heterosynaptic facilitation in Aplysia. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 14634-9	11.5	42
118	Attention enhances the retrieval and stability of visuospatial and olfactory representations in the dorsal hippocampus. *PLoS Biology*, **2009**, 7, e1000140	9.7	98
117	An introduction to the work of David Hubel and Torsten Wiesel. *Journal of Physiology*, **2009**, 587, 2733-41	3.9	9
116	Characterization of small RNAs in Aplysia reveals a role for miR-124 in constraining synaptic plasticity through CREB. *Neuron*, **2009**, 63, 803-17	13.9	320
115	The biology of memory: a forty-year perspective. *Journal of Neuroscience*, **2009**, 29, 12748-56	6.6	141

114	Transcriptional regulation of long-term memory in the marine snail Aplysia. *Molecular Brain*, **2008**, 1, 3	4.5	62
113	Sustained CPEB-dependent local protein synthesis is required to stabilize synaptic growth for persistence of long-term facilitation in Aplysia. *Neuron*, **2008**, 59, 1024-36	13.9	117
112	A new component in synaptic plasticity: upregulation of kinesin in the neurons of the gill-withdrawal reflex. *Cell*, **2008**, 135, 960-73	56.2	69
111	Synaptic remodeling, synaptic growth and the storage of long-term memory in Aplysia. *Progress in Brain Research*, **2008**, 169, 179-98	2.9	92
110	Chronic nicotine exposure induces a long-lasting and pathway-specific facilitation of LTP in the amygdala. *Learning and Memory*, **2008**, 15, 603-10	2.8	34
109	Nuclear translocation of CAM-associated protein activates transcription for long-term facilitation in Aplysia. *Cell*, **2007**, 129, 801-12	56.2	44
108	PKA-activated ApAF-ApC/EBP heterodimer is a key downstream effector of ApCREB and is necessary and sufficient for the consolidation of long-term facilitation. *Journal of Cell Biology*, **2006** , 174, 827-38	7.3	21
107	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. *Journal of Neuroscience*, **2006**, 26, 256-64	6.6	61
106	Dishabituation in Aplysia can involve either reversal of habituation or superimposed sensitization. *Learning and Memory*, **2006**, 13, 397-403	2.8	23
105	Operant conditioning of gill withdrawal in Aplysia. *Journal of Neuroscience*, **2006**, 26, 2443-8	6.6	26
104	Ablation of hippocampal neurogenesis impairs contextual fear conditioning and synaptic plasticity in the dentate gyrus. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 17501-6	11.5	811
103	Molecular mechanisms of memory storage in Aplysia. *Biological Bulletin*, **2006**, 210, 174-91	1.5	179
102	Neuronal transcriptome of Aplysia: neuronal compartments and circuitry. *Cell*, **2006**, 127, 1453-67	56.2	251
101	The Role of CREB and CBP in Brain Function **2006**, 206-241		5
100	Neuroscience. *Annals of the New York Academy of Sciences*, **2006**, 935, 118-135	6.5	2
99	Presynaptic and postsynaptic roles of NO, cGK, and RhoA in long-lasting potentiation and aggregation of synaptic proteins. *Neuron*, **2005**, 45, 389-403	13.9	179
98	Serotonin-induced regulation of the actin network for learning-related synaptic growth requires Cdc42, N-WASP, and PAK in Aplysia sensory neurons. *Neuron*, **2005**, 45, 887-901	13.9	90
97	Transient expansion of synaptically connected dendritic spines upon induction of hippocampal long-term potentiation. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 16665-70	11.5	183

96	Selective modulation of some forms of schaffer collateral-CA1 synaptic plasticity in mice with a disruption of the CPEB-1 gene. *Learning and Memory*, **2004**, 11, 318-27	2.8	131
95	Role of Aplysia cell adhesion molecules during 5-HT-induced long-term functional and structural changes. *Learning and Memory*, **2004**, 11, 421-35	2.8	23
94	The molecular biology of memory storage: a dialog between genes and synapses. *Bioscience Reports*, **2004**, 24, 475-522	4.1	72
93	Chromatin acetylation, memory, and LTP are impaired in CBP+/- mice: a model for the cognitive deficit in Rubinstein-Taybi syndrome and its amelioration. *Neuron*, **2004**, 42, 947-59	13.9	746
92	The persistence of long-term memory: a molecular approach to self-sustaining changes in learning-induced synaptic growth. *Neuron*, **2004**, 44, 49-57	13.9	228
91	p38 MAP kinase mediates both short-term and long-term synaptic depression in aplysia. *Journal of Neuroscience*, **2003**, 23, 7317-25	6.6	79
90	A parallel between radical reductionism in science and in art. *Annals of the New York Academy of Sciences*, **2003**, 1001, 272-94	6.5	10
89	A neuronal isoform of the aplysia CPEB has prion-like properties. *Cell*, **2003**, 115, 879-91	56.2	470
88	A neuronal isoform of CPEB regulates local protein synthesis and stabilizes synapse-specific long-term facilitation in aplysia. *Cell*, **2003**, 115, 893-904	56.2	347
87	Activity-dependent presynaptic facilitation and hebbian LTP are both required and interact during classical conditioning in Aplysia. *Neuron*, **2003**, 37, 135-47	13.9	172
86	Inducible enhancement of memory storage and synaptic plasticity in transgenic mice expressing an inhibitor of ATF4 (CREB-2) and C/EBP proteins. *Neuron*, **2003**, 39, 655-69	13.9	227
85	Presynaptic BDNF required for a presynaptic but not postsynaptic component of LTP at hippocampal CA1-CA3 synapses. *Neuron*, **2003**, 39, 975-90	13.9	258
84	Presynaptic activation of silent synapses and growth of new synapses contribute to intermediate and long-term facilitation in Aplysia. *Neuron*, **2003**, 40, 151-65	13.9	113
83	CREB, memory enhancement and the treatment of memory disorders: promises, pitfalls and prospects. *Expert Opinion on Therapeutic Targets*, **2003**, 7, 101-14	6.4	146
82	Two previously undescribed members of the mouse CPEB family of genes and their inducible expression in the principal cell layers of the hippocampus. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 9602-7	11.5	152
81	Expression of constitutively active CREB protein facilitates the late phase of long-term potentiation by enhancing synaptic capture. *Cell*, **2002**, 108, 689-703	56.2	451
80	Integration of long-term-memory-related synaptic plasticity involves bidirectional regulation of gene expression and chromatin structure. *Cell*, **2002**, 111, 483-93	56.2	418
79	Reversible inhibition of CREB/ATF transcription factors in region CA1 of the dorsal hippocampus disrupts hippocampus-dependent spatial memory. *Neuron*, **2002**, 34, 447-62	13.9	400

78	Progress in the neural sciences in the the century after Cajal (and the mysteries that remain). *Annals of the New York Academy of Sciences*, **2001**, 929, 11-40	6.5	9
77	The molecular biology of memory storage: a dialog between genes and synapses. *Bioscience Reports*, **2001**, 21, 565-611	4.1	250
76	Rapid increase in clusters of presynaptic proteins at onset of long-lasting potentiation. *Science*, **2001**, 294, 1547-50	33.3	147
75	Inducible and reversible enhancement of learning, memory, and long-term potentiation by genetic inhibition of calcineurin. *Cell*, **2001**, 104, 675-86	56.2	408
74	The contribution of activity-dependent synaptic plasticity to classical conditioning in Aplysia. *Journal of Neuroscience*, **2001**, 21, 6413-22	6.6	84
73	Is heterosynaptic modulation essential for stabilizing Hebbian plasticity and memory?. *Nature Reviews Neuroscience*, **2000**, 1, 11-20	13.5	299
72	Local protein synthesis and its role in synapse-specific plasticity. *Current Opinion in Neurobiology*, **2000**, 10, 587-92	7.6	212
71	Cognitive neuroscience. *Current Opinion in Neurobiology*, **2000**, 10, 612-24	7.6	42
70	Parallel instabilities of long-term potentiation, place cells, and learning caused by decreased protein kinase A activity. *Journal of Neuroscience*, **2000**, 20, 8096-102	6.6	106
69	Enhancement of memory-related long-term facilitation by ApAF, a novel transcription factor that acts downstream from both CREB1 and CREB2. *Cell*, **2000**, 103, 595-608	56.2	57
68	Strain-dependent differences in LTP and hippocampus-dependent memory in inbred mice. *Learning and Memory*, **2000**, 7, 170-9	2.8	186
67	The emergence of modern neuroscience: some implications for neurology and psychiatry. *Annual Review of Neuroscience*, **2000**, 23, 343-91	17	84
66	The contribution of facilitation of monosynaptic PSPs to dishabituation and sensitization of the Aplysia siphon withdrawal reflex. *Journal of Neuroscience*, **1999**, 19, 10438-50	6.6	59
65	Cyclic AMP induces functional presynaptic boutons in hippocampal CA3-CA1 neuronal cultures. *Nature Neuroscience*, **1999**, 2, 24-30	25.5	142
64	Mechanisms for generating the autonomous cAMP-dependent protein kinase required for long-term facilitation in Aplysia. *Neuron*, **1999**, 22, 147-56	13.9	163
63	ERK plays a regulatory role in induction of LTP by theta frequency stimulation and its modulation by beta-adrenergic receptors. *Neuron*, **1999**, 24, 715-26	13.9	279
62	A transient, neuron-wide form of CREB-mediated long-term facilitation can be stabilized at specific synapses by local protein synthesis. *Cell*, **1999**, 99, 221-37	56.2	427
61	The past, the future and the biology of memory storage. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **1999**, 354, 2027-52	5.8	84

60	Positive and negative regulatory mechanisms that mediate long-term memory storage. *Brain Research Reviews*, **1998**, 26, 360-78		228
59	Postsynaptic induction and PKA-dependent expression of LTP in the lateral amygdala. *Neuron*, **1998**, 21, 169-78	13.9	293
58	Inducible and reversible gene expression with the rtTA system for the study of memory. *Neuron*, **1998**, 21, 257-65	13.9	222
57	Cognitive neuroscience and the study of memory. *Neuron*, **1998**, 20, 445-68	13.9	965
56	A genetic switch for long-term memory. *Comptes Rendus De L'Acadmie Des Sciences Srie 3, Sciences De La Vie*, **1998**, 321, 91-6		56
55	Genetic and pharmacological evidence for a novel, intermediate phase of long-term potentiation suppressed by calcineurin. *Cell*, **1998**, 92, 25-37	56.2	320
54	Restricted and regulated overexpression reveals calcineurin as a key component in the transition from short-term to long-term memory. *Cell*, **1998**, 92, 39-49	56.2	313
53	CREB1 encodes a nuclear activator, a repressor, and a cytoplasmic modulator that form a regulatory unit critical for long-term facilitation. *Cell*, **1998**, 95, 211-23	56.2	305
52	Memory suppressor genes: inhibitory constraints on the storage of long-term memory. *Science*, **1998**, 279, 338-41	33.3	241
51	Abolition of long-term stability of new hippocampal place cell maps by NMDA receptor blockade. *Science*, **1998**, 280, 2121-6	33.3	389
50	Relationship between dishabituation, sensitization, and inhibition of the gill- and siphon-withdrawal reflex in Aplysia californica: Effects of response measure, test time, and training stimulus.. *Behavioral Neuroscience*, **1998**, 112, 24-38	2.1	30
49	Classical conditioning, differential conditioning, and second-order conditioning of the Aplysia gill-withdrawal reflex in a simplified mantle organ preparation.. *Behavioral Neuroscience*, **1998**, 112, 636-645	2.1	34
48	Involvement of presynaptic and postsynaptic mechanisms in a cellular analog of classical conditioning at Aplysia sensory-motor neuron synapses in isolated cell culture. *Journal of Neuroscience*, **1998**, 18, 458-66	6.6	135
47	Different Training Procedures Recruit Either One or Two Critical Periods for Contextual Memory Consolidation, Each of Which Requires Protein Synthesis and PKA. *Learning and Memory*, **1998**, 5, 365-374	2.8	272
46	Involvement of pre- and postsynaptic mechanisms in posttetanic potentiation at Aplysia synapses. *Science*, **1997**, 275, 969-73	33.3	97
45	MAP kinase translocates into the nucleus of the presynaptic cell and is required for long-term facilitation in Aplysia. *Neuron*, **1997**, 18, 899-912	13.9	484
44	Mutation in the phosphorylation sites of MAP kinase blocks learning-related internalization of apCAM in Aplysia sensory neurons. *Neuron*, **1997**, 18, 913-24	13.9	166
43	Recruitment of new sites of synaptic transmission during the cAMP-dependent late phase of LTP at CA3-CA1 synapses in the hippocampus. *Neuron*, **1997**, 19, 635-51	13.9	182

42	Ubiquitin C-terminal hydrolase is an immediate-early gene essential for long-term facilitation in Aplysia. *Cell*, **1997**, 89, 115-26	56.2	329
41	Synapse-specific, long-term facilitation of aplysia sensory to motor synapses: a function for local protein synthesis in memory storage. *Cell*, **1997**, 91, 927-38	56.2	636
40	Genetic demonstration of a role for PKA in the late phase of LTP and in hippocampus-based long-term memory. *Cell*, **1997**, 88, 615-26	56.2	1023
39	A simplified preparation for relating cellular events to behavior: contribution of LE and unidentified siphon sensory neurons to mediation and habituation of the Aplysia gill- and siphon-withdrawal reflex. *Journal of Neuroscience*, **1997**, 17, 2900-13	6.6	46
38	A simplified preparation for relating cellular events to behavior: mechanisms contributing to habituation, dishabituation, and sensitization of the Aplysia gill-withdrawal reflex. *Journal of Neuroscience*, **1997**, 17, 2886-99	6.6	83
37	Memory and behavior: a second generation of genetically modified mice. *Current Biology*, **1997**, 7, R580-8	8.3	52
36	Genes, synapses, and long-term memory. *Journal of Cellular Physiology*, **1997**, 173, 124-5	7	62
35	Nitric oxide acts directly in the presynaptic neuron to produce long-term potentiation in cultured hippocampal neurons. *Cell*, **1996**, 87, 1025-35	56.2	339
34	Subregion- and cell type-restricted gene knockout in mouse brain. *Cell*, **1996**, 87, 1317-26	56.2	1018
33	Mice expressing activated CaMKII lack low frequency LTP and do not form stable place cells in the CA1 region of the hippocampus. *Cell*, **1996**, 87, 1351-61	56.2	218
32	Recombinant BDNF rescues deficits in basal synaptic transmission and hippocampal LTP in BDNF knockout mice. *Neuron*, **1996**, 16, 1137-45	13.9	1070
31	Cell adhesion molecules, CREB, and the formation of new synaptic connections. *Neuron*, **1996**, 17, 567-70	13.9	155
30	A macromolecular synthesis-dependent late phase of long-term potentiation requiring cAMP in the medial perforant pathway of rat hippocampal slices. *Journal of Neuroscience*, **1996**, 16, 3189-98	6.6	241
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