

Eric R Kandel

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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	Recombinant BDNF rescues deficits in basal synaptic transmission and hippocampal LTP in BDNF knockout mice. <i>Neuron</i> , 1996 , 16, 1137-45	13.9	1070
202	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, 615-26	56.2	1023
201	Subregion- and cell type-restricted gene knockout in mouse brain. <i>Cell</i> , 1996 , 87, 1317-26	56.2	1018
200	Cognitive neuroscience and the study of memory. <i>Neuron</i> , 1998 , 20, 445-68	13.9	965
199	The long and the short of long-term memory--a molecular framework. <i>Nature</i> , 1986 , 322, 419-22	50.4	888
198	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, 17501-6	11.5	811
197	MORPHOLOGICAL AND FUNCTIONAL PROPERTIES OF IDENTIFIED NEURONS IN THE ABDOMINAL GANGLION OF APLYSIA CALIFORNICA. <i>Journal of Neurophysiology</i> , 1967 , 30, 1288-1351	3.2	768
196	Chromatin acetylation, memory, and LTP are impaired in CBP+/- mice: a model for the cognitive deficit in Rubinstein-Taybi syndrome and its amelioration. <i>Neuron</i> , 2004 , 42, 947-59	13.9	746
195	Tissue-plasminogen activator is induced as an immediate-early gene during seizure, kindling and long-term potentiation. <i>Nature</i> , 1993 , 361, 453-7	50.4	702
194	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, 927-38	56.2	636
193	Injection of the cAMP-responsive element into the nucleus of Aplysia sensory neurons blocks long-term facilitation. <i>Nature</i> , 1990 , 345, 718-21	50.4	608
192	Serotonin and cyclic AMP close single K ⁺ channels in Aplysia sensory neurones. <i>Nature</i> , 1982 , 299, 413-7	50.4	579
191	The molecular and systems biology of memory. <i>Cell</i> , 2014 , 157, 163-86	56.2	563
190	The molecular biology of memory: cAMP, PKA, CRE, CREB-1, CREB-2, and CPEB. <i>Molecular Brain</i> , 2012 , 5, 14	4.5	533
189	Long-term potentiation in the hippocampus is blocked by tyrosine kinase inhibitors. <i>Nature</i> , 1991 , 353, 558-60	50.4	525
188	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	13.9	484
187	Aplysia CREB2 represses long-term facilitation: relief of repression converts transient facilitation into long-term functional and structural change. <i>Cell</i> , 1995 , 83, 979-92	56.2	482

186	A neuronal isoform of the aplysia CPEB has prion-like properties. <i>Cell</i> , 2003 , 115, 879-91	56.2	470
185	C/EBP is an immediate-early gene required for the consolidation of long-term facilitation in Aplysia. <i>Cell</i> , 1994 , 76, 1099-114	56.2	468
184	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	56.2	451
183	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	56.2	441
182	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, 221-37	56.2	427
181	Learning to modulate transmitter release: themes and variations in synaptic plasticity. <i>Annual Review of Neuroscience</i> , 1993 , 16, 625-65	17	420
180	Integration of long-term-memory-related synaptic plasticity involves bidirectional regulation of gene expression and chromatin structure. <i>Cell</i> , 2002 , 111, 483-93	56.2	418
179	Inducible and reversible enhancement of learning, memory, and long-term potentiation by genetic inhibition of calcineurin. <i>Cell</i> , 2001 , 104, 675-86	56.2	408
178	Reversible inhibition of CREB/ATF transcription factors in region CA1 of the dorsal hippocampus disrupts hippocampus-dependent spatial memory. <i>Neuron</i> , 2002 , 34, 447-62	13.9	400
177	A role for neuronal piRNAs in the epigenetic control of memory-related synaptic plasticity. <i>Cell</i> , 2012 , 149, 693-707	56.2	399
176	Abolition of long-term stability of new hippocampal place cell maps by NMDA receptor blockade. <i>Science</i> , 1998 , 280, 2121-6	33.3	389
175	Activation of cAMP-responsive genes by stimuli that produce long-term facilitation in Aplysia sensory neurons. <i>Neuron</i> , 1993 , 10, 427-35	13.9	369
174	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	56.2	347
173	Nitric oxide acts directly in the presynaptic neuron to produce long-term potentiation in cultured hippocampal neurons. <i>Cell</i> , 1996 , 87, 1025-35	56.2	339
172	Ubiquitin C-terminal hydrolase is an immediate-early gene essential for long-term facilitation in Aplysia. <i>Cell</i> , 1997 , 89, 115-26	56.2	329
171	Characterization of small RNAs in Aplysia reveals a role for miR-124 in constraining synaptic plasticity through CREB. <i>Neuron</i> , 2009 , 63, 803-17	13.9	320
170	Genetic and pharmacological evidence for a novel, intermediate phase of long-term potentiation suppressed by calcineurin. <i>Cell</i> , 1998 , 92, 25-37	56.2	320
169	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	56.2	313

168	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, 211-23	56.2	305
167	Is heterosynaptic modulation essential for stabilizing Hebbian plasticity and memory?. <i>Nature Reviews Neuroscience</i> , 2000 , 1, 11-20	13.5	299
166	Postsynaptic induction and PKA-dependent expression of LTP in the lateral amygdala. <i>Neuron</i> , 1998 , 21, 169-78	13.9	293
165	Aplysia CPEB can form prion-like multimers in sensory neurons that contribute to long-term facilitation. <i>Cell</i> , 2010 , 140, 421-35	56.2	288
164	ERK plays a regulatory role in induction of LTP by theta frequency stimulation and its modulation by beta-adrenergic receptors. <i>Neuron</i> , 1999 , 24, 715-26	13.9	279
163	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, 479-89	13.9	278
162	Synapses and memory storage. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012 , 4,	10.2	275
161	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	2.8	272
160	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	11.5	265
159	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, 1211-22	56.2	263
158	Presynaptic BDNF required for a presynaptic but not postsynaptic component of LTP at hippocampal CA1-CA3 synapses. <i>Neuron</i> , 2003 , 39, 975-90	13.9	258
157	Neuronal transcriptome of Aplysia: neuronal compartments and circuitry. <i>Cell</i> , 2006 , 127, 1453-67	56.2	251
156	The molecular biology of memory storage: a dialog between genes and synapses. <i>Bioscience Reports</i> , 2001 , 21, 565-611	4.1	250
155	Memory suppressor genes: inhibitory constraints on the storage of long-term memory. <i>Science</i> , 1998 , 279, 338-41	33.3	241
154	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, 3189-98	6.6	241
153	Shattuck Lecture. A molecular basis for nicotine as a gateway drug. <i>New England Journal of Medicine</i> , 2014 , 371, 932-43	59.2	229
152	Positive and negative regulatory mechanisms that mediate long-term memory storage. <i>Brain Research Reviews</i> , 1998 , 26, 360-78		228
151	The persistence of long-term memory: a molecular approach to self-sustaining changes in learning-induced synaptic growth. <i>Neuron</i> , 2004 , 44, 49-57	13.9	228

150	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, 655-69	13.9	227
149	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, 413-20	13.9	226
148	Inducible and reversible gene expression with the rtTA system for the study of memory. <i>Neuron</i> , 1998 , 21, 257-65	13.9	222
147	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, 1351-61	56.2	218
146	Local protein synthesis and its role in synapse-specific plasticity. <i>Current Opinion in Neurobiology</i> , 2000 , 10, 587-92	7.6	212
145	Structural Components of Synaptic Plasticity and Memory Consolidation. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015 , 7, a021758	10.2	202
144	Molecular mechanism for a gateway drug: epigenetic changes initiated by nicotine prime gene expression by cocaine. <i>Science Translational Medicine</i> , 2011 , 3, 107ra109	17.5	187
143	Strain-dependent differences in LTP and hippocampus-dependent memory in inbred mice. <i>Learning and Memory</i> , 2000 , 7, 170-9	2.8	186
142	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, 16665-70	11.5	183
141	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, 635-51	13.9	182
140	Essential role of coiled coils for aggregation and activity of Q/N-rich prions and PolyQ proteins. <i>Cell</i> , 2010 , 143, 1121-35	56.2	179
139	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	13.9	179
138	Molecular mechanisms of memory storage in Aplysia. <i>Biological Bulletin</i> , 2006 , 210, 174-91	1.5	179
137	Inhibitors of protein and RNA synthesis block structural changes that accompany long-term heterosynaptic plasticity in Aplysia. <i>Neuron</i> , 1992 , 9, 749-58	13.9	174
136	Activity-dependent presynaptic facilitation and hebbian LTP are both required and interact during classical conditioning in Aplysia. <i>Neuron</i> , 2003 , 37, 135-47	13.9	172
135	Mutation in the phosphorylation sites of MAP kinase blocks learning-related internalization of apCAM in Aplysia sensory neurons. <i>Neuron</i> , 1997 , 18, 913-24	13.9	166
134	An analysis of dishabituation and sensitization of the gill-withdrawal reflex in Aplysia. <i>International Journal of Neuroscience</i> , 1971 , 2, 79-98	2	164
133	Mechanisms for generating the autonomous cAMP-dependent protein kinase required for long-term facilitation in Aplysia. <i>Neuron</i> , 1999 , 22, 147-56	13.9	163

132	The regulation of transcription in memory consolidation. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014 , 7, a021741	10.2	162
131	Parallel processing of short-term memory for sensitization in Aplysia. <i>Journal of Neurobiology</i> , 1988 , 19, 297-334		156
130	Cell adhesion molecules, CREB, and the formation of new synaptic connections. <i>Neuron</i> , 1996 , 17, 567-70	3.9	155
129	Neuroscience thinks big (and collaboratively). <i>Nature Reviews Neuroscience</i> , 2013 , 14, 659-64	13.5	153
128	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, 9602-7	11.5	152
127	Rapid increase in clusters of presynaptic proteins at onset of long-lasting potentiation. <i>Science</i> , 2001 , 294, 1547-50	33.3	147
126	CREB, memory enhancement and the treatment of memory disorders: promises, pitfalls and prospects. <i>Expert Opinion on Therapeutic Targets</i> , 2003 , 7, 101-14	6.4	146
125	Cyclic AMP induces functional presynaptic boutons in hippocampal CA3-CA1 neuronal cultures. <i>Nature Neuroscience</i> , 1999 , 2, 24-30	25.5	142
124	The biology of memory: a forty-year perspective. <i>Journal of Neuroscience</i> , 2009 , 29, 12748-56	6.6	141
123	Neuralized1 activates CPEB3: a function for nonproteolytic ubiquitin in synaptic plasticity and memory storage. <i>Cell</i> , 2011 , 147, 1369-83	56.2	136
122	Involvement of presynaptic and postsynaptic mechanisms in a cellular analog of classical conditioning at Aplysia sensory-motor neuron synapses in isolated cell culture. <i>Journal of Neuroscience</i> , 1998 , 18, 458-66	6.6	135
121	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, 318-27	2.8	131
120	Gpr158 mediates osteocalcin β regulation of cognition. <i>Journal of Experimental Medicine</i> , 2017 , 214, 2859-2873	12.73	124
119	Persistent and transcriptionally-dependent increase in protein phosphorylation in long-term facilitation of Aplysia sensory neurons. <i>Nature</i> , 1989 , 339, 51-4	50.4	118
118	The Persistence of Hippocampal-Based Memory Requires Protein Synthesis Mediated by the Prion-like Protein CPEB3. <i>Neuron</i> , 2015 , 86, 1433-48	13.9	117
117	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, 1024-36	13.9	117
116	Presynaptic activation of silent synapses and growth of new synapses contribute to intermediate and long-term facilitation in Aplysia. <i>Neuron</i> , 2003 , 40, 151-65	13.9	113
115	Parallel instabilities of long-term potentiation, place cells, and learning caused by decreased protein kinase A activity. <i>Journal of Neuroscience</i> , 2000 , 20, 8096-102	6.6	106

114	Attention enhances the retrieval and stability of visuospatial and olfactory representations in the dorsal hippocampus. <i>PLoS Biology</i> , 2009 , 7, e1000140	9.7	98
113	Involvement of pre- and postsynaptic mechanisms in posttetanic potentiation at Aplysia synapses. <i>Science</i> , 1997 , 275, 969-73	33.3	97
112	Synaptic remodeling, synaptic growth and the storage of long-term memory in Aplysia. <i>Progress in Brain Research</i> , 2008 , 169, 179-98	2.9	92
111	Transgenic approaches to cognition. <i>Current Opinion in Neurobiology</i> , 1995 , 5, 141-8	7.6	91
110	Cyclic adenosine monophosphate in the nervous system of Aplysia californica. I. Increased synthesis in response to synaptic stimulation. <i>Journal of General Physiology</i> , 1972 , 60, 558-69	3.4	91
109	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	13.9	90
108	The emergence of modern neuroscience: some implications for neurology and psychiatry. <i>Annual Review of Neuroscience</i> , 2000 , 23, 343-91	17	84
107	The contribution of activity-dependent synaptic plasticity to classical conditioning in Aplysia. <i>Journal of Neuroscience</i> , 2001 , 21, 6413-22	6.6	84
106	The past, the future and the biology of memory storage. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1999 , 354, 2027-52	5.8	84
105	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, 2886-99	6.6	83
104	A circuit from hippocampal CA2 to lateral septum disinhibits social aggression. <i>Nature</i> , 2018 , 564, 213-218	18.4	82
103	Molecular mechanism for age-related memory loss: the histone-binding protein RbAp48. <i>Science Translational Medicine</i> , 2013 , 5, 200ra115	17.5	80
102	The CPEB3 Protein Is a Functional Prion that Interacts with the Actin Cytoskeleton. <i>Cell Reports</i> , 2015 , 11, 1772-85	10.6	79
101	Neurexin-neuroligin transsynaptic interaction mediates learning-related synaptic remodeling and long-term facilitation in aplysia. <i>Neuron</i> , 2011 , 70, 468-81	13.9	79
100	p38 MAP kinase mediates both short-term and long-term synaptic depression in aplysia. <i>Journal of Neuroscience</i> , 2003 , 23, 7317-25	6.6	79
99	A quantitative study of the Ca ²⁺ /calmodulin sensitivity of adenylyl cyclase in Aplysia, Drosophila, and rat. <i>Journal of Neurochemistry</i> , 1992 , 59, 1736-44	6	75
98	Molecular Mechanisms of the Memory Trace. <i>Trends in Neurosciences</i> , 2019 , 42, 14-22	13.3	74
97	SUMOylation Is an Inhibitory Constraint that Regulates the Prion-like Aggregation and Activity of CPEB3. <i>Cell Reports</i> , 2015 , 11, 1694-702	10.6	72

96	New mechanisms in memory storage: piRNAs and epigenetics. <i>Trends in Neurosciences</i> , 2013 , 36, 535-42	13.3	72
95	The molecular biology of memory storage: a dialog between genes and synapses. <i>Bioscience Reports</i> , 2004 , 24, 475-522	4.1	72
94	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, 261-86	6.5	72
93	A new component in synaptic plasticity: upregulation of kinesin in the neurons of the gill-withdrawal reflex. <i>Cell</i> , 2008 , 135, 960-73	56.2	69
92	A cellular model of memory reconsolidation involves reactivation-induced destabilization and restabilization at the sensorimotor synapse in Aplysia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 14200-5	11.5	65
91	The Role of Functional Prion-Like Proteins in the Persistence of Memory. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016 , 8, a021774	10.2	64
90	Genes, synapses, and long-term memory. <i>Journal of Cellular Physiology</i> , 1997 , 173, 124-5	7	62
89	Transcriptional regulation of long-term memory in the marine snail Aplysia. <i>Molecular Brain</i> , 2008 , 1, 3	4.5	62
88	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, 256-64	6.6	61
87	The contribution of facilitation of monosynaptic PSPs to dishabituation and sensitization of the Aplysia siphon withdrawal reflex. <i>Journal of Neuroscience</i> , 1999 , 19, 10438-50	6.6	59
86	Functional role of Tia1/Pub1 and Sup35 prion domains: directing protein synthesis machinery to the tubulin cytoskeleton. <i>Molecular Cell</i> , 2014 , 55, 305-18	17.6	58
85	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	56.2	57
84	A genetic switch for long-term memory. <i>Comptes Rendus De L'Académie Des Sciences Série 3, Sciences De La Vie</i> , 1998 , 321, 91-6		56
83	Characterization of prion-like conformational changes of the neuronal isoform of Aplysia CPEB. <i>Nature Structural and Molecular Biology</i> , 2013 , 20, 495-501	17.6	53
82	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	11.5	52
81	Learning-induced and stathmin-dependent changes in microtubule stability are critical for memory and disrupted in ageing. <i>Nature Communications</i> , 2014 , 5, 4389	17.4	52
80	Memory and behavior: a second generation of genetically modified mice. <i>Current Biology</i> , 1997 , 7, R580-8	0.3	52
79	FMRFamide reverses protein phosphorylation produced by 5-HT and cAMP in Aplysia sensory neurons. <i>Nature</i> , 1989 , 342, 275-8	50.4	51

78	The Neurobiology of Fear Generalization. <i>Frontiers in Behavioral Neuroscience</i> , 2018 , 12, 329	3.5	50
77	MicroRNA-22 Gates Long-Term Heterosynaptic Plasticity in Aplysia through Presynaptic Regulation of CPEB and Downstream Targets. <i>Cell Reports</i> , 2015 , 11, 1866-75	10.6	49
76	TIA-1 Self-Multimerization, Phase Separation, and Recruitment into Stress Granules Are Dynamically Regulated by Zn. <i>Cell Reports</i> , 2018 , 22, 59-71	10.6	49
75	Presynaptic and postsynaptic mechanisms of synaptic plasticity and metaplasticity during intermediate-term memory formation in Aplysia. <i>Journal of Neuroscience</i> , 2010 , 30, 5781-91	6.6	48
74	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. <i>Journal of Neuroscience</i> , 1997 , 17, 2900-13	6.6	46
73	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	11.5	45
72	Nuclear translocation of CAM-associated protein activates transcription for long-term facilitation in Aplysia. <i>Cell</i> , 2007 , 129, 801-12	56.2	44
71	Identification of a serotonin receptor coupled to adenylyl cyclase involved in learning-related heterosynaptic facilitation in Aplysia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 14634-9	11.5	42
70	Cognitive neuroscience. <i>Current Opinion in Neurobiology</i> , 2000 , 10, 612-24	7.6	42
69	A single Aplysia neurotrophin mediates synaptic facilitation via differentially processed isoforms. <i>Cell Reports</i> , 2013 , 3, 1213-27	10.6	39
68	Whereas short-term facilitation is presynaptic, intermediate-term facilitation involves both presynaptic and postsynaptic protein kinases and protein synthesis. <i>Learning and Memory</i> , 2011 , 18, 96-102	2.8	39
67	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	11.5	38
66	Selective overexpression of dopamine D3 receptors in the striatum disrupts motivation but not cognition. <i>Biological Psychiatry</i> , 2014 , 76, 823-31	7.9	37
65	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, 3347-52	11.5	34
64	Spontaneous transmitter release recruits postsynaptic mechanisms of long-term and intermediate-term facilitation in Aplysia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 9137-42	11.5	34
63	Chronic nicotine exposure induces a long-lasting and pathway-specific facilitation of LTP in the amygdala. <i>Learning and Memory</i> , 2008 , 15, 603-10	2.8	34
62	Classical conditioning, differential conditioning, and second-order conditioning of the Aplysia gill-withdrawal reflex in a simplified mantle organ preparation.. <i>Behavioral Neuroscience</i> , 1998 , 112, 636-645	2.4	34
61	Prior alcohol use enhances vulnerability to compulsive cocaine self-administration by promoting degradation of HDAC4 and HDAC5. <i>Science Advances</i> , 2017 , 3, e1701682	14.3	33

60	Dopamine Regulation of Amygdala Inhibitory Circuits for Expression of Learned Fear. <i>Neuron</i> , 2015 , 88, 378-89	13.9	31
59	Relationship between dishabituation, sensitization, and inhibition of the gill- and siphon-withdrawal reflex in <i>Aplysia californica</i> : Effects of response measure, test time, and training stimulus.. <i>Behavioral Neuroscience</i> , 1998 , 112, 24-38	2.1	30
58	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	10.6	27
57	Designing a norepinephrine optical tracer for imaging individual noradrenergic synapses and their activity in vivo. <i>Nature Communications</i> , 2018 , 9, 2838	17.4	26
56	Differential contribution of TRPM4 and TRPM5 nonselective cation channels to the slow afterdepolarization in mouse prefrontal cortex neurons. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 267	6.1	26
55	Spontaneous transmitter release is critical for the induction of long-term and intermediate-term facilitation in <i>Aplysia</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 9131-6	11.5	26
54	Operant conditioning of gill withdrawal in <i>Aplysia</i> . <i>Journal of Neuroscience</i> , 2006 , 26, 2443-8	6.6	26
53	The new science of mind and the future of knowledge. <i>Neuron</i> , 2013 , 80, 546-60	13.9	23
52	Dishabituation in <i>Aplysia</i> can involve either reversal of habituation or superimposed sensitization. <i>Learning and Memory</i> , 2006 , 13, 397-403	2.8	23
51	Role of <i>Aplysia</i> cell adhesion molecules during 5-HT-induced long-term functional and structural changes. <i>Learning and Memory</i> , 2004 , 11, 421-35	2.8	23
50	Reductionism in Art and Brain Science 2016 ,		23
49	Cannabinoid exposure in rat adolescence reprograms the initial behavioral, molecular, and epigenetic response to cocaine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 9991-10002	11.5	22
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