

J David Sweatt

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

209 papers	30,481 citations	93 h-index	174 g-index
216 ext. papers	32,953 ext. citations	9.1 avg, IF	7.5 L-index

#	Paper	IF	Citations
209	Isoforms Differentially Regulate Gene Expression, Synaptic Transmission, and Memory in the Mammalian Brain. <i>Journal of Neuroscience</i> , 2021 , 41, 578-593	6.6	6
208	Synthetic female gonadal hormones alter neurodevelopmental programming and behavior in F offspring. <i>Hormones and Behavior</i> , 2020 , 126, 104848	3.7	1
207	An Antisense Oligonucleotide Leads to Suppressed Transcription of Hdac2 and Long-Term Memory Enhancement. <i>Molecular Therapy - Nucleic Acids</i> , 2020 , 19, 1399-1412	10.7	12
206	A myelin-related transcriptomic profile is shared by Pitt-Hopkins syndrome models and human autism spectrum disorder. <i>Nature Neuroscience</i> , 2020 , 23, 375-385	25.5	34
205	Broad domains of histone 3 lysine 4 trimethylation are associated with transcriptional activation in CA1 neurons of the hippocampus during memory formation. <i>Neurobiology of Learning and Memory</i> , 2019 , 161, 149-157	3.1	16
204	Cognition-Enhancing Vagus Nerve Stimulation Alters the Epigenetic Landscape. <i>Journal of Neuroscience</i> , 2019 , 39, 3454-3469	6.6	10
203	The Epigenetic Basis of Individuality. <i>Current Opinion in Behavioral Sciences</i> , 2019 , 25, 51-56	4	8
202	Locus-Specific DNA Methylation Assays to Study Glutamate Receptor Regulation. <i>Methods in Molecular Biology</i> , 2019 , 1941, 167-188	1.4	1
201	Histone H3 lysine K4 methylation and its role in learning and memory. <i>Epigenetics and Chromatin</i> , 2019 , 12, 7	5.8	52
200	APOE genotype modifies the association between central arterial stiffening and cognition in older adults. <i>Neurobiology of Aging</i> , 2018 , 67, 120-127	5.6	12
199	Autosomal dominant retinitis pigmentosa rhodopsin mutant Q344X drives specific alterations in chromatin complex gene transcription. <i>Molecular Vision</i> , 2018 , 24, 153-164	2.3	4
198	Experience-dependent epigenomic reorganization in the hippocampus. <i>Learning and Memory</i> , 2017 , 24, 278-288	2.8	39
197	Epigenetics of Memory Processes 2017 , 347-358		
196	Tcf4 Regulates Synaptic Plasticity, DNA Methylation, and Memory Function. <i>Cell Reports</i> , 2016 , 16, 2666-2685	26.85	74
195	GENE EXPRESSION. Chromatin controls behavior. <i>Science</i> , 2016 , 353, 218-9	33.3	3
194	Dynamic DNA methylation regulates neuronal intrinsic membrane excitability. <i>Science Signaling</i> , 2016 , 9, ra83	8.8	40
193	Obesity Weighs down Memory through a Mechanism Involving the Neuroepigenetic Dysregulation of Sirt1. <i>Journal of Neuroscience</i> , 2016 , 36, 1324-35	6.6	55

192	Drugging the methylome: DNA methylation and memory. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2016 , 51, 185-94	8.7	14
191	An epigenomics approach to individual differences and its translation to neuropsychiatric conditions. <i>Dialogues in Clinical Neuroscience</i> , 2016 , 18, 289-298	5.7	12
190	Extra-coding RNAs regulate neuronal DNA methylation dynamics. <i>Nature Communications</i> , 2016 , 7, 12091	7.4	41
189	Dynamic DNA methylation controls glutamate receptor trafficking and synaptic scaling. <i>Journal of Neurochemistry</i> , 2016 , 137, 312-30	6	40
188	Neural plasticity and behavior - sixty years of conceptual advances. <i>Journal of Neurochemistry</i> , 2016 , 139 Suppl 2, 179-199	6	332
187	Memory-Associated Dynamic Regulation of the "Stable" Core of the Chromatin Particle. <i>Neuron</i> , 2015 , 87, 1-4	13.9	32
186	DNA methylation regulates neuronal glutamatergic synaptic scaling. <i>Science Signaling</i> , 2015 , 8, ra61	8.8	80
185	DNA methylation regulates neurophysiological spatial representation in memory formation. <i>Neuroepigenetics</i> , 2015 , 2, 1-8		30
184	Pharmacological Selectivity Within Class I Histone Deacetylases Predicts Effects on Synaptic Function and Memory Rescue. <i>Neuropsychopharmacology</i> , 2015 , 40, 2307-16	8.7	57
183	DNA Methylation in Memory Formation: Emerging Insights. <i>Neuroscientist</i> , 2015 , 21, 475-89	7.6	61
182	DNA methylation and its implications and accessibility for neuropsychiatric therapeutics. <i>Annual Review of Pharmacology and Toxicology</i> , 2015 , 55, 591-611	17.9	57
181	Pitt-Hopkins Mouse Model has Altered Particular Gastrointestinal Transits In Vivo. <i>Autism Research</i> , 2015 , 8, 629-33	5.1	23
180	Tet1 Oxidase Regulates Neuronal Gene Transcription, Active DNA Hydroxy-methylation, Object Location Memory, and Threat Recognition Memory. <i>Neuroepigenetics</i> , 2015 , 4, 12-27		30
179	Behavioral and electrophysiological characterization of Dyt1 heterozygous knockout mice. <i>PLoS ONE</i> , 2015 , 10, e0120916	3.7	14
178	Transcriptional and epigenetic regulation of Hebbian and non-Hebbian plasticity. <i>Neuropharmacology</i> , 2014 , 80, 3-17	5.5	55
177	Histone H2A.Z subunit exchange controls consolidation of recent and remote memory. <i>Nature</i> , 2014 , 515, 582-6	50.4	119
176	Aging and energetics' 'Top 40' future research opportunities 2010-2013. <i>F1000Research</i> , 2014 , 3, 219	3.6	14
175	DNA methylation regulates associative reward learning. <i>Nature Neuroscience</i> , 2013 , 16, 1445-52	25.5	170

174	The emerging field of neuroepigenetics. <i>Neuron</i> , 2013 , 80, 624-32	13.9	227
173	TET1 controls CNS 5-methylcytosine hydroxylation, active DNA demethylation, gene transcription, and memory formation. <i>Neuron</i> , 2013 , 79, 1086-93	13.9	320
172	Epigenetic regulation of memory formation and maintenance. <i>Learning and Memory</i> , 2013 , 20, 61-74	2.8	249
171	Disruption of neocortical histone H3 homeostasis by soluble A β implications for Alzheimer's disease. <i>Neurobiology of Aging</i> , 2013 , 34, 2081-90	5.6	41
170	Protease-activated receptor-1 modulates hippocampal memory formation and synaptic plasticity. <i>Journal of Neurochemistry</i> , 2013 , 124, 109-22	6	44
169	Epigenetic mechanisms in learned fear: implications for PTSD. <i>Neuropsychopharmacology</i> , 2013 , 38, 77-98	7	142
168	Cellular, molecular, and epigenetic mechanisms in non-associative conditioning: implications for pain and memory. <i>Neurobiology of Learning and Memory</i> , 2013 , 105, 133-50	3.1	78
167	Pitt-Hopkins Syndrome: intellectual disability due to loss of TCF4-regulated gene transcription. <i>Experimental and Molecular Medicine</i> , 2013 , 45, e21	12.8	78
166	Epigenetic Mechanisms in Learning and Memory 2013 , 121-170		
165	An Overview of the Molecular Basis of Epigenetics 2013 , 3-33		4
164	Interindividual Variability in Stress Susceptibility: A Role for Epigenetic Mechanisms in PTSD. <i>Frontiers in Psychiatry</i> , 2013 , 4, 60	5	44
163	Pre-synaptic release deficits in a DYT1 dystonia mouse model. <i>PLoS ONE</i> , 2013 , 8, e72491	3.7	15
162	The role of the Gadd45 family in the nervous system: a focus on neurodevelopment, neuronal injury, and cognitive neuroepigenetics. <i>Advances in Experimental Medicine and Biology</i> , 2013 , 793, 81-119	3.6	42
161	DNA Methylation in Memory Formation. <i>Research and Perspectives in Neurosciences</i> , 2012 , 81-96		1
160	Adult mice maintained on a high-fat diet exhibit object location memory deficits and reduced hippocampal SIRT1 gene expression. <i>Neurobiology of Learning and Memory</i> , 2012 , 98, 25-32	3.1	125
159	Enhanced hippocampal long-term potentiation and fear memory in Btbd9 mutant mice. <i>PLoS ONE</i> , 2012 , 7, e35518	3.7	31
158	Mechanisms of age-related cognitive change and targets for intervention: epigenetics. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012 , 67, 741-6	6.4	51
157	Epigenetic treatments for cognitive impairments. <i>Neuropsychopharmacology</i> , 2012 , 37, 247-60	8.7	90

156	Genetic deletion of Gadd45b, a regulator of active DNA demethylation, enhances long-term memory and synaptic plasticity. <i>Journal of Neuroscience</i> , 2012 , 32, 17059-66	6.6	103
155	Hippocampal phenotypes in kalirin-deficient mice. <i>Molecular and Cellular Neurosciences</i> , 2011 , 46, 45-54	4.8	27
154	Epigenetic marking of the BDNF gene by early-life adverse experiences. <i>Hormones and Behavior</i> , 2011 , 59, 315-20	3.7	148
153	Epigenetic mechanisms in cognition. <i>Neuron</i> , 2011 , 70, 813-29	13.9	378
152	Cognitive neuroepigenetics: a role for epigenetic mechanisms in learning and memory. <i>Neurobiology of Learning and Memory</i> , 2011 , 96, 2-12	3.1	106
151	Epigenetics of Memory Processes 2011 , 381-390		
150	Annual Research Review: Epigenetic mechanisms and environmental shaping of the brain during sensitive periods of development. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2011 , 52, 398-408	7.9	181
149	Behavioral epigenetics. <i>Annals of the New York Academy of Sciences</i> , 2011 , 1226, 14-33	6.5	101
148	Epigenetic modification of hippocampal Bdnf DNA in adult rats in an animal model of post-traumatic stress disorder. <i>Journal of Psychiatric Research</i> , 2011 , 45, 919-26	5.2	253
147	Serine proteases, serine protease inhibitors, and protease-activated receptors: roles in synaptic function and behavior. <i>Brain Research</i> , 2011 , 1407, 107-22	3.7	54
146	Neuroscience. Creating stable memories. <i>Science</i> , 2011 , 331, 869-70	33.3	7
145	Epigenetic modifications in neurons are essential for formation and storage of behavioral memory. <i>Neuropsychopharmacology</i> , 2011 , 36, 357-8	8.7	26
144	Dnmt1 and Dnmt3a maintain DNA methylation and regulate synaptic function in adult forebrain neurons. <i>Nature Neuroscience</i> , 2010 , 13, 423-30	25.5	759
143	Cortical DNA methylation maintains remote memory. <i>Nature Neuroscience</i> , 2010 , 13, 664-6	25.5	431
142	DNA methylation and memory formation. <i>Nature Neuroscience</i> , 2010 , 13, 1319-23	25.5	358
141	An epigenetic hypothesis of aging-related cognitive dysfunction. <i>Frontiers in Aging Neuroscience</i> , 2010 , 2, 9	5.3	98
140	RGS14 is a natural suppressor of both synaptic plasticity in CA2 neurons and hippocampal-based learning and memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 16994-8	11.5	124
139	Biochemical Mechanisms for Information Storage at the Cellular Level 2010 , 208-235		

138 Molecular Genetic Mechanisms for Long-Term Information Storage at the Cellular Level **2010**, 236-267

137 Inherited Disorders of Human MemoryMental Retardation Syndromes **2010**, 268-291

136 Aging-Related Memory DisordersAlzheimer's Disease **2010**, 292-319

1

135 Rodent Behavioral Learning and Memory Models **2010**, 76-103

2

134 Neuroscience. Epigenetics and cognitive aging. *Science*, **2010**, 328, 701-2

33.3 39

133 Loss of alpha7 nicotinic receptors enhances beta-amyloid oligomer accumulation, exacerbating early-stage cognitive decline and septohippocampal pathology in a mouse model of Alzheimer's disease. *Journal of Neuroscience*, **2010**, 30, 2442-53

6.6 149

132 Deficiency in the inhibitory serine-phosphorylation of glycogen synthase kinase-3 increases sensitivity to mood disturbances. *Neuropsychopharmacology*, **2010**, 35, 1761-74

8.7 184

131 Inhibitors of class 1 histone deacetylases reverse contextual memory deficits in a mouse model of Alzheimer's disease. *Neuropsychopharmacology*, **2010**, 35, 870-80

8.7 531

130 Epigenetic regulation of genes in learning and memory. *Essays in Biochemistry*, **2010**, 48, 263-74

7.6 30

129 Histone methylation regulates memory formation. *Journal of Neuroscience*, **2010**, 30, 3589-99

6.6 427

128 Lithium ameliorates altered glycogen synthase kinase-3 and behavior in a mouse model of fragile X syndrome. *Biochemical Pharmacology*, **2010**, 79, 632-46

6 148

127 The role of calsenilin/DREAM/KChIP3 in contextual fear conditioning. *Learning and Memory*, **2009**, 16, 167-77

2.8 50

126 Reduced expression of the NMDA receptor-interacting protein SynGAP causes behavioral abnormalities that model symptoms of Schizophrenia. *Neuropsychopharmacology*, **2009**, 34, 1659-72

8.7 78

125 Regulation of chromatin structure in memory formation. *Current Opinion in Neurobiology*, **2009**, 19, 336-42

120

124 Increased c-fos expression in the central nucleus of the amygdala and enhancement of cued fear memory in Dyt1 DeltaGAG knock-in mice. *Neuroscience Research*, **2009**, 65, 228-35

2.9 30

123 Experience-dependent epigenetic modifications in the central nervous system. *Biological Psychiatry*, **2009**, 65, 191-7

7.9 252

122 Lasting epigenetic influence of early-life adversity on the BDNF gene. *Biological Psychiatry*, **2009**, 65, 760-9

7.9 988

121 NADPH oxidase mediates beta-amyloid peptide-induced activation of ERK in hippocampal organotypic cultures. *Molecular Brain*, **2009**, 2, 31

4.5 21

120	Kalirin regulates cortical spine morphogenesis and disease-related behavioral phenotypes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 13058-63	11.5	123
119	Kv4.2 is a locus for PKC and ERK/MAPK cross-talk. <i>Biochemical Journal</i> , 2009 , 417, 705-15	3.8	34
118	Rhythms of memory. <i>Nature Neuroscience</i> , 2008 , 11, 993-4	25.5	21
117	Striatal histone modifications in models of levodopa-induced dyskinesia. <i>Journal of Neurochemistry</i> , 2008 , 106, 486-94	6	82
116	Covalent Modification of DNA Regulates Memory Formation. <i>Neuron</i> , 2008 , 59, 1051	13.9	2
115	DNA methylation and histone acetylation work in concert to regulate memory formation and synaptic plasticity. <i>Neurobiology of Learning and Memory</i> , 2008 , 89, 599-603	3.1	342
114	Altered protein synthesis is a trigger for long-term memory formation. <i>Neurobiology of Learning and Memory</i> , 2008 , 89, 247-59	3.1	71
113	Epigenetic regulation of BDNF gene transcription in the consolidation of fear memory. <i>Journal of Neuroscience</i> , 2008 , 28, 10576-86	6.6	635
112	c-Rel, an NF-kappaB family transcription factor, is required for hippocampal long-term synaptic plasticity and memory formation. <i>Learning and Memory</i> , 2008 , 15, 539-49	2.8	110
111	Deletion of ERK2 mitogen-activated protein kinase identifies its key roles in cortical neurogenesis and cognitive function. <i>Journal of Neuroscience</i> , 2008 , 28, 6983-95	6.6	205
110	Astroglial nuclear factor-kappaB regulates learning and memory and synaptic plasticity in female mice. <i>Journal of Neurochemistry</i> , 2008 , 104, 611-23	6	45
109	Alpha3-integrins are required for hippocampal long-term potentiation and working memory. <i>Learning and Memory</i> , 2007 , 14, 606-15	2.8	41
108	The nuclear kinase mitogen- and stress-activated protein kinase 1 regulates hippocampal chromatin remodeling in memory formation. <i>Journal of Neuroscience</i> , 2007 , 27, 12732-42	6.6	195
107	Developmental regulation of Eed complex composition governs a switch in global histone modification in brain. <i>Journal of Biological Chemistry</i> , 2007 , 282, 9962-9972	5.4	56
106	Covalent modification of DNA regulates memory formation. <i>Neuron</i> , 2007 , 53, 857-69	13.9	952
105	The IkappaB kinase regulates chromatin structure during reconsolidation of conditioned fear memories. <i>Neuron</i> , 2007 , 55, 942-57	13.9	201
104	Learning and memory deficits in mice lacking protease activated receptor-1. <i>Neurobiology of Learning and Memory</i> , 2007 , 88, 295-304	3.1	47
103	An atomic switch for memory. <i>Cell</i> , 2007 , 129, 23-4	56.2	2

102	ERK/MAPK regulates the Kv4.2 potassium channel by direct phosphorylation of the pore-forming subunit. <i>American Journal of Physiology - Cell Physiology</i> , 2006 , 290, C852-61	5.4	140
101	Functional dissection of Reelin signaling by site-directed disruption of Disabled-1 adaptor binding to apolipoprotein E receptor 2: distinct roles in development and synaptic plasticity. <i>Journal of Neuroscience</i> , 2006 , 26, 2041-52	6.6	98
100	Beta 1-integrins are required for hippocampal AMPA receptor-dependent synaptic transmission, synaptic plasticity, and working memory. <i>Journal of Neuroscience</i> , 2006 , 26, 223-32	6.6	131
99	Deletion of Kv4.2 gene eliminates dendritic A-type K ⁺ current and enhances induction of long-term potentiation in hippocampal CA1 pyramidal neurons. <i>Journal of Neuroscience</i> , 2006 , 26, 12143-51	6.6	252
98	Amnesia or retrieval deficit? Implications of a molecular approach to the question of reconsolidation. <i>Learning and Memory</i> , 2006 , 13, 498-505	2.8	46
97	NF-B in Neurons 2006 , 147-161		1
96	Regulation of nuclear factor kappaB in the hippocampus by group I metabotropic glutamate receptors. <i>Journal of Neuroscience</i> , 2006 , 26, 4870-9	6.6	83
95	Signal transduction mechanisms in memory disorders. <i>Progress in Brain Research</i> , 2006 , 157, 25-41	2.9	9
94	ERK/MAPK regulates hippocampal histone phosphorylation following contextual fear conditioning. <i>Learning and Memory</i> , 2006 , 13, 322-8	2.8	273
93	Learning and memory and synaptic plasticity are impaired in a mouse model of Rett syndrome. <i>Journal of Neuroscience</i> , 2006 , 26, 319-27	6.6	417
92	Secretin receptor-deficient mice exhibit impaired synaptic plasticity and social behavior. <i>Human Molecular Genetics</i> , 2006 , 15, 3241-50	5.6	46
91	Evidence that DNA (cytosine-5) methyltransferase regulates synaptic plasticity in the hippocampus. <i>Journal of Biological Chemistry</i> , 2006 , 281, 15763-73	5.4	478
90	Kinase suppressor of Ras1 compartmentalizes hippocampal signal transduction and subserves synaptic plasticity and memory formation. <i>Neuron</i> , 2006 , 50, 765-79	13.9	76
89	Modulation of synaptic plasticity and memory by Reelin involves differential splicing of the lipoprotein receptor Apoer2. <i>Neuron</i> , 2005 , 47, 567-79	13.9	359
88	Epigenetic mechanisms in memory formation. <i>Nature Reviews Neuroscience</i> , 2005 , 6, 108-18	13.5	603
87	Normal development and fertility of knockout mice lacking the tumor suppressor gene LRP1b suggest functional compensation by LRP1. <i>Molecular and Cellular Biology</i> , 2004 , 24, 3782-93	4.8	53
86	Generation and characterization of LANP/pp32 null mice. <i>Molecular and Cellular Biology</i> , 2004 , 24, 3140-4	4.8	32
85	Mouse genetic approaches to investigating calcium/calmodulin-dependent protein kinase II function in plasticity and cognition. <i>Journal of Neuroscience</i> , 2004 , 24, 8410-5	6.6	118

84	Reelin and cyclin-dependent kinase 5-dependent signals cooperate in regulating neuronal migration and synaptic transmission. <i>Journal of Neuroscience</i> , 2004 , 24, 1897-906	6.6	100
83	Calcium-calmodulin-dependent kinase II modulates Kv4.2 channel expression and upregulates neuronal A-type potassium currents. <i>Journal of Neuroscience</i> , 2004 , 24, 3643-54	6.6	136
82	A bioinformatics analysis of memory consolidation reveals involvement of the transcription factor c-rel. <i>Journal of Neuroscience</i> , 2004 , 24, 3933-43	6.6	144
81	Structure and function of Kv4-family transient potassium channels. <i>Physiological Reviews</i> , 2004 , 84, 803-33	7.9	282
80	Mild overexpression of MeCP2 causes a progressive neurological disorder in mice. <i>Human Molecular Genetics</i> , 2004 , 13, 2679-89	5.6	478
79	Receptor clustering is involved in Reelin signaling. <i>Molecular and Cellular Biology</i> , 2004 , 24, 1378-86	4.8	157
78	Neuronal LRP1 functionally associates with postsynaptic proteins and is required for normal motor function in mice. <i>Molecular and Cellular Biology</i> , 2004 , 24, 8872-83	4.8	159
77	MAPK recruitment by beta-amyloid in organotypic hippocampal slice cultures depends on physical state and exposure time. <i>Journal of Neurochemistry</i> , 2004 , 91, 349-61	6	97
76	Mitogen-activated protein kinases in synaptic plasticity and memory. <i>Current Opinion in Neurobiology</i> , 2004 , 14, 311-7	7.6	816
75	Hippocampal function in cognition. <i>Psychopharmacology</i> , 2004 , 174, 99-110	4.7	133
74	Neuronal MEK is important for normal fear conditioning in mice. <i>Journal of Neuroscience Research</i> , 2004 , 75, 760-70	4.4	46
73	Regulation of histone acetylation during memory formation in the hippocampus. <i>Journal of Biological Chemistry</i> , 2004 , 279, 40545-59	5.4	867
72	Mitochondrial regulation of synaptic plasticity in the hippocampus. <i>Journal of Biological Chemistry</i> , 2003 , 278, 17727-34	5.4	134
71	A role for ERK MAP kinase in physiologic temporal integration in hippocampal area CA1. <i>Learning and Memory</i> , 2003 , 10, 26-39	2.8	128
70	Inherited Disorders of Human Memory 2003 , 307-336		
69	Integrin requirement for hippocampal synaptic plasticity and spatial memory. <i>Journal of Neuroscience</i> , 2003 , 23, 7107-16	6.6	158
68	Rodent Behavioral Learning and Memory Models 2003 , 29-60		
67	Derangements of hippocampal calcium/calmodulin-dependent protein kinase II in a mouse model for Angelman mental retardation syndrome. <i>Journal of Neuroscience</i> , 2003 , 23, 2634-44	6.6	214

66	Postsynaptic contributions to hippocampal network hyperexcitability induced by chronic activity blockade in vivo. <i>European Journal of Neuroscience</i> , 2003 , 18, 1861-72	3.5	35
65	Genetics of childhood disorders: LI. Learning and memory, Part 4: Human cognitive disorders and the ras/ERK/CREB pathway. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2003 , 42, 741-4	7.2	9
64	Genetics of childhood disorders: LII. Learning and memory, part 5: human cognitive disorders and the ras/ERK/CREB pathway. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2003 , 42, 873-6	7.2	12
63	Mice lacking Tropomodulin-2 show enhanced long-term potentiation, hyperactivity, and deficits in learning and memory. <i>Molecular and Cellular Neurosciences</i> , 2003 , 23, 1-12	4.8	58
62	Pet-1 ETS gene plays a critical role in 5-HT neuron development and is required for normal anxiety-like and aggressive behavior. <i>Neuron</i> , 2003 , 37, 233-47	13.9	371
61	SCA7 knockin mice model human SCA7 and reveal gradual accumulation of mutant ataxin-7 in neurons and abnormalities in short-term plasticity. <i>Neuron</i> , 2003 , 37, 383-401	13.9	173
60	Rap1 couples cAMP signaling to a distinct pool of p42/44MAPK regulating excitability, synaptic plasticity, learning, and memory. <i>Neuron</i> , 2003 , 39, 309-25	13.9	199
59	A fundamental role for KChIPs in determining the molecular properties and trafficking of Kv4.2 potassium channels. <i>Journal of Biological Chemistry</i> , 2003 , 278, 36445-54	5.4	205
58	The Biochemistry of LTP Induction 2003 , 147-188		0
57	The Chemistry of Perpetual Memory 2003 , 367-390		1
56	Biochemical Mechanisms for Short-Term Information Storage at the Cellular Level 2003 , 189-232		
55	Biochemical Mechanisms for Long-Term Information Storage at the Cellular Level 2003 , 233-262		
54	Complexities of Long-Term Potentiation 2003 , 117-146		
53	LTP Does Not Equal Memory 2003 , 263-306		1
52	Aging-Related Memory Disorders 2003 , 337-366		1
51	Protein kinase modulation of dendritic K ⁺ channels in hippocampus involves a mitogen-activated protein kinase pathway. <i>Journal of Neuroscience</i> , 2002 , 22, 4860-8	6.6	279
50	Long-term potentiation and contextual fear conditioning increase neuronal glutamate uptake. <i>Nature Neuroscience</i> , 2002 , 5, 155-61	25.5	127
49	Protein kinase signal transduction cascades in mammalian associative conditioning. <i>Neuroscientist</i> , 2002 , 8, 122-31	7.6	67

48	The other half of Hebb: K ⁺ channels and the regulation of neuronal excitability in the hippocampus. <i>Molecular Neurobiology</i> , 2002 , 25, 51-66	6.2	27
47	beta -Amyloid peptide activates alpha 7 nicotinic acetylcholine receptors expressed in <i>Xenopus</i> oocytes. <i>Journal of Biological Chemistry</i> , 2002 , 277, 25056-61	5.4	175
46	Accelerated plaque accumulation, associative learning deficits, and up-regulation of alpha 7 nicotinic receptor protein in transgenic mice co-expressing mutant human presenilin 1 and amyloid precursor proteins. <i>Journal of Biological Chemistry</i> , 2002 , 277, 22768-80	5.4	171
45	The role of mitochondrial porins and the permeability transition pore in learning and synaptic plasticity. <i>Journal of Biological Chemistry</i> , 2002 , 277, 18891-7	5.4	138
44	Molecular psychology: roles for the ERK MAP kinase cascade in memory. <i>Annual Review of Pharmacology and Toxicology</i> , 2002 , 42, 135-63	17.9	506
43	Noninvasive, in vivo approaches to evaluating behavior and exercise physiology in mouse models of mitochondrial disease. <i>Methods</i> , 2002 , 26, 364-70	4.6	9
42	Molecular neurobiology of human cognition. <i>Neuron</i> , 2002 , 33, 845-8	13.9	125
41	A long CAG repeat in the mouse <i>Sca1</i> locus replicates SCA1 features and reveals the impact of protein solubility on selective neurodegeneration. <i>Neuron</i> , 2002 , 34, 905-19	13.9	250
40	Reelin and ApoE receptors cooperate to enhance hippocampal synaptic plasticity and learning. <i>Journal of Biological Chemistry</i> , 2002 , 277, 39944-52	5.4	464
39	Impaired conditioned fear and enhanced long-term potentiation in <i>Fmr2</i> knock-out mice. <i>Journal of Neuroscience</i> , 2002 , 22, 2753-63	6.6	93
38	Molecular genetics of human cognition. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2002 , 2, 376-91, 339		36
37	Glutamate uptake in synaptic plasticity: from mollusc to mammal. <i>Current Molecular Medicine</i> , 2002 , 2, 593-603	2.5	13
36	The neuronal MAP kinase cascade: a biochemical signal integration system subserving synaptic plasticity and memory. <i>Journal of Neurochemistry</i> , 2001 , 76, 1-10	6	893
35	Leitmotifs in the biochemistry of LTP induction: amplification, integration and coordination. <i>Journal of Neurochemistry</i> , 2001 , 77, 961-71	6	45
34	Roles of serine/threonine phosphatases in hippocampal synaptic plasticity. <i>Nature Reviews Neuroscience</i> , 2001 , 2, 461-74	13.5	276
33	Memory-forming chemical reactions. <i>Reviews in the Neurosciences</i> , 2001 , 12, 41-50	4.7	13
32	Protein kinase inhibition by omega-3 fatty acids. <i>Journal of Biological Chemistry</i> , 2001 , 276, 10888-96	5.4	122
31	Increased histone acetyltransferase and lysine acetyltransferase activity and biphasic activation of the ERK/RSK cascade in insular cortex during novel taste learning. <i>Journal of Neuroscience</i> , 2001 , 21, 3383-91	6.6	170

30	Beta-amyloid activates the mitogen-activated protein kinase cascade via hippocampal alpha7 nicotinic acetylcholine receptors: In vitro and in vivo mechanisms related to Alzheimer's disease. <i>Journal of Neuroscience</i> , 2001 , 21, 4125-33	6.6	479
29	The A-type potassium channel Kv4.2 is a substrate for the mitogen-activated protein kinase ERK. <i>Journal of Neurochemistry</i> , 2000 , 75, 2277-87	6	193
28	Activation of ERK/MAP kinase in the amygdala is required for memory consolidation of pavlovian fear conditioning. <i>Journal of Neuroscience</i> , 2000 , 20, 8177-87	6.6	543
27	A role for the beta isoform of protein kinase C in fear conditioning. <i>Journal of Neuroscience</i> , 2000 , 20, 5906-14	6.6	159
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1	Defects of myelination are common pathophysiology in syndromic and idiopathic autism spectrum disorder		1