Graham L Collingridge

List of Publications by Year
in descending order

331	49,213	98	215
papers	citations	h-index	g-index
		2311	1627

352	352	352	25747
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A synaptic model of memory: long-term potentiation in the hippocampus. Nature, 1993, 361, 31-39.	13.7	10,699
2	Excitatory amino acids in synaptic transmission in the Schaffer collateralâ€commissural pathway of the rat hippocampus.. Journal of Physiology, 1983, 334, 33-46.	1.3	2,074
3	NMDA receptors - their role in long-term potentiation. Trends in Neurosciences, 1987, 10, 288-293.	4.2	1,139
4	Receptor trafficking and synaptic plasticity. Nature Reviews Neuroscience, 2004, 5, 952-962.	4.9	886
5	Excitatory amino acid receptors and synaptic plasticity. Trends in Pharmacological Sciences, 1990, 11, 290-296.	4.0	835
6	Long-term depression in the CNS. Nature Reviews Neuroscience, 2010, 11, 459-473.	4.9	785
7	Motor deficit and impairment of synaptic plasticity in mice lacking mGluR1. Nature, 1994, 372, 237-243.	13.7	755
8	Induction of LTP in the hippocampus needs synaptic activation of glutamate metabotropic receptors. Nature, 1993, 363, 347-350.	13.7	716
9	Pairedâ€pulse depression of monosynaptic GABAâ€mediated inhibitory postsynaptic responses in rat hippocampus.. Journal of Physiology, 1990, 424, 513-531.	1.3	637
10	LTP Inhibits LTD in the Hippocampus via Regulation of GSK3Î². Neuron, 2007, 53, 703-717.	3.8	632
11	Differential Roles of NR2A and NR2B-Containing NMDA Receptors in Cortical Long-Term Potentiation and Long-Term Depression. Journal of Neuroscience, 2004, 24, 7821-7828.	1.7	606
12	GABAB autoreceptors regulate the induction of LTP. Nature, 1991, 349, 609-611.	13.7	569
13	Metabotropic glutamate receptors: From the workbench to the bedside. Neuropharmacology, 2011, 60, 1017-1041.	2.0	559
14	NSF Binding to GluR2 Regulates Synaptic Transmission. Neuron, 1998, 21, 87-97.	3.8	539
15	A nomenclature for ligand-gated ion channels. Neuropharmacology, 2009, 56, 2-5.	2.0	531
16	Synaptic plasticity in the anterior cingulate cortex in acute and chronic pain. Nature Reviews Neuroscience, 2016, 17, 485-496.	4.9	509
17	A molecular switch activated by metabotropic glutamate receptors regulates induction of long-term potentiation. Nature, 1994, 368, 740-743.	13.7	477
18	Modulation of AMPA receptor unitary conductance by synaptic activity. Nature, 1998, 393, 793-797.	13.7	470

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19	Transient incorporation of native GluR2-lacking AMPA receptors during hippocampal long-term potentiation. Nature Neuroscience, 2006, 9, 602-604.	7.1	464
20	Temporally distinct pre- and post-synaptic mechanisms maintain long-term potentiation. Nature, 1989, 338, 500-503.	13.7	452
21	Frequency-dependent involvement of NMDA receptors in the hippocampus: a novel synaptic mechanism. Nature, 1986, 322, 265-268.	13.7	404
22	A hippocampal GluR5 kainate receptor regulating inhibitory synaptic transmission. Nature, 1997, 389, 599-603.	13.7	401
23	The role of NMDA receptors in learning and memory. Nature, 1987, 330, 604-605.	13.7	389
24	The synaptic activation of kainate receptors. Nature, 1997, 388, 179-182.	13.7	382
25	The LTP Program: a data acquisition program for on-line analysis of long-term potentiation and other synaptic events. Journal of Neuroscience Methods, 2001, 108, 71-83.	1.3	381
26	Regulation of glutamate release by presynaptic kainate receptors in the hippocampus. Nature, 1996, 379, 78-81.	13.7	373
27	Long-term potentiation of NMDA receptor-mediated synaptic transmission in the hippocampus. Nature, 1991, 349, 156-158.	13.7	357
28	Alleviating Neuropathic Pain Hypersensitivity by Inhibiting PKMÎ¶ in the Anterior Cingulate Cortex. Science, 2010, 330, 1400-1404.	6.0	350
29	The antagonism of amino acidâ€induced excitations of rat hippocampal CA1 neurones in vitro.. Journal of Physiology, 1983, 334, 19-31.	1.3	340
30	Evidence for the participation of nigrotectal Î³-aminobutyrate-containing neurones in striatal and nigral-derived circling in the rat. Neuroscience, 1982, 7, 207-222.	1.1	316
31	Surface Expression of AMPA Receptors in Hippocampal Neurons Is Regulated by an NSF-Dependent Mechanism. Neuron, 1999, 23, 365-376.	3.8	311
32	(RS)-2-Chloro-5-Hydroxyphenylglycine (CHPG) Activates mGlu5, but not mGlu1, Receptors Expressed in CHO Cells and Potentiates NMDA Responses in the Hippocampus. Neuropharmacology, 1997, 36, 265-267.	2.0	310
33	The group I mGlu receptor agonist DHPG induces a novel form of LTD in the CA1 region of the hippocampus. Neuropharmacology, 1997, 36, 1517-1532.	2.0	301
34	Hippocampal LTD Expression Involves a Pool of AMPARs Regulated by the NSFâ€“GluR2 Interaction. Neuron, 1999, 24, 389-399.	3.8	298
35	Kainate receptors are involved in synaptic plasticity. Nature, 1999, 402, 297-301.	13.7	297
36	PDZ Proteins Interacting with C-Terminal GluR2/3 Are Involved in a PKC-Dependent Regulation of AMPA Receptors at Hippocampal Synapses. Neuron, 2000, 28, 873-886.	3.8	297

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37	Phenylglycine derivatives as antagonists of metabotropic glutamate receptors. Trends in Pharmacological Sciences, 1994, 15, 333-342.	4.0	288
38	AÎ²1â€"42 inhibition of LTP is mediated by a signaling pathway involving caspase-3, Akt1 and GSK-3Î². Nature Neuroscience, 2011, 14, 545-547.	7.1	273
39	Characterisation of LTP induced by the activation of glutamate metabotropic receptors in area CA1 of the hippocampus. Neuropharmacology, 1993, 32, 1-9.	2.0	266
40	Novel pharmacological targets for the treatment of Parkinson's disease. Nature Reviews Drug Discovery, 2006, 5, 845-854.	21.5	262
41	Coexistence of Two Forms of LTP in ACC Provides a Synaptic Mechanism for the Interactions between Anxiety and Chronic Pain. Neuron, 2015, 85, 377-389.	3.8	261
42	Differential roles of NR2A and NR2B-containing NMDA receptors in LTP and LTD in the CA1 region of two-week old rat hippocampus. Neuropharmacology, 2007, 52, 60-70.	2.0	246
43	Kainate receptors: Pharmacology, function and therapeutic potential. Neuropharmacology, 2009, 56, 90-113.	2.0	242
44	Expression of NMDA receptor-dependent LTP in the hippocampus: bridging the divide. Molecular Brain, 2013, 6, 5.	1.3	239
45	Mechanisms contributing to the deficits in hippocampal synaptic plasticity in mice lacking amyloid precursor protein. Neuropharmacology, 1999, 38, 349-359.	2.0	233
46	Microtubule-associated protein tau is essential for long-term depression in the hippocampus. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130144.	1.8	228
47	Removal of AMPA Receptors (AMPARs) from Synapses Is Preceded by Transient Endocytosis of Extrasynaptic AMPARs. Journal of Neuroscience, 2004, 24, 5172-5176.	1.7	219
48	Capabilities of the WinLTP data acquisition program extending beyond basic LTP experimental functions. Journal of Neuroscience Methods, 2007, 162, 346-356.	1.3	214
49	Magnesium ions block an N-methyl-d-aspartate receptor-mediated component of synaptic transmission in rat hippocampus. Neuroscience Letters, 1985, 53, 21-26.	1.0	213
50	The role of JAK-STAT signaling within the CNS. Jak-stat, 2013, 2, e22925.	2.2	207
51	A selective N-methyl-d-aspartate antagonist depresses epileptiform activity in rat hippocampal slices. Neuroscience Letters, 1985, 61, 255-260.	1.0	206
52	The NMDA receptor as a target for cognitive enhancement. Neuropharmacology, 2013, 64, 13-26.	2.0	206
53	Characterization of Ca2+ signals induced in hippocampal CA1 neurones by the synaptic activation of NMDA receptors.. Journal of Physiology, 1993, 469, 693-716.	1.3	205
54	Developmental Changes in Synaptic AMPA and NMDA Receptor Distribution and AMPA Receptor Subunit Composition in Living Hippocampal Neurons. Journal of Neuroscience, 2000, 20, 7922-7931.	1.7	205

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55	Long-term potentiation and the role of N -methyl- d -aspartate receptors. Brain Research, 2015, 1621, 5-16.	1.1	199
56	Rapid and Differential Regulation of AMPA and Kainate Receptors at Hippocampal Mossy Fibre Synapses by PICK1 and GRIP. Neuron, 2003, 37, 625-638.	3.8	196
57	Activation of microglial Nâ€methylâ€Dâ€aspartate receptors triggers inflammation and neuronal cell death in the developing and mature brain. Annals of Neurology, 2012, 72, 536-549.	2.8	194
58	Age-Related Impairment of Synaptic Transmission But Normal Long-Term Potentiation in Transgenic Mice that Overexpress the Human APP695SWE Mutant Form of Amyloid Precursor Protein. Journal of Neuroscience, 2001, 21, 4691-4698.	1.7	193
59	A Critical Role of a Facilitatory Presynaptic Kainate Receptor in Mossy Fiber LTP. Neuron, 2001, 32, 697-709.	3.8	187
60	An investigation of depotentiation of longterm potentiation in the CA1 region of the hippocampus. Experimental Brain Research, 1994, 100, 437-443.	0.7	186
61	The JAK/STAT Pathway Is Involved in Synaptic Plasticity. Neuron, 2012, 73, 374-390.	3.8	185
62	Increased Seizure Susceptibility in Mice Lacking Metabotropic Glutamate Receptor 7. Journal of Neuroscience, 2001, 21, 8734-8745.	1.7	183
63	MK-801 blocks NMDA receptor-mediated synaptic transmission and long term potentiation in rat hippocampal slices. Neuroscience Letters, 1987, 80, 111-114.	1.0	178
64	Roles of metabotropic glutamate receptors in LTP and LTD in. Current Opinion in Neurobiology, 1999, 9, 299-304.	2.0	178
65	Activation of group I mG1uRs potentiates NMDA responses in rat hippocampal slices. Neuroscience Letters, 1996, 203, 211-213.	1.0	177
66	CNQX blocks acidic amino acid induced depolarizations and synaptic components mediated by non-NMDA receptors in rat hippocampal slices. Neuroscience Letters, 1988, 89, 182-186.	1.0	169
67	The Tyrosine Phosphatase STEP Mediates AMPA Receptor Endocytosis after Metabotropic Glutamate Receptor Stimulation. Journal of Neuroscience, 2008, 28, 10561-10566.	1.7	169
68	A Role for Ca2+ Stores in Kainate Receptor-Dependent Synaptic Facilitation and LTP at Mossy Fiber Synapses in the Hippocampus. Neuron, 2003, 39, 327-341.	3.8	168
69	Effects of phencyclidine, SKF 10,047 and related psychotomimetic agents on Nâ€methylâ€<scp>d</scp>â€aspartate receptor mediated synaptic responses in rat hippocampal slices. British Journal of Pharmacology, 1987, 91, 547-556.	2.7	167
70	Long term potentiation in the hippocampus: mechanisms of initiation and modulation by neurotransmitters. Trends in Pharmacological Sciences, 1985, 6, 407-411.	4.0	163
71	Tyrosine Phosphatases Regulate AMPA Receptor Trafficking during Metabotropic Glutamate Receptor-Mediated Long-Term Depression. Journal of Neuroscience, 2006, 26, 2544-2554.	1.7	162
72	Regulation of Synaptic Strength and AMPA Receptor Subunit Composition by PICK1. Journal of Neuroscience, 2004, 24, 5381-5390.	1.7	160

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73	A characterisation of longâ€term depression induced by metabotropic glutamate receptor activation in the rat hippocampus in vitro. Journal of Physiology, 2001, 537, 421-430.	1.3	158
74	1S,3R-ACPD stimulates and L-AP3 blocks Ca2+ mobilization in rat cerebellar neurons. European Journal of Pharmacology, 1990, 186, 363-365.	1.7	157
75	The physiological regulation of synaptic inhibition by GABAB autoreceptors in rat hippocampus.. Journal of Physiology, 1993, 472, 245-265.	1.3	155
76	DHPG-induced LTD in area CA1 of juvenile rat hippocampus; characterisation and sensitivity to novel mGlu receptor antagonists. Neuropharmacology, 1999, 38, 1577-1583.	2.0	152
77	A pivotal role of GSK-3 in synaptic plasticity. Frontiers in Molecular Neuroscience, 2012, 5, 13.	1.4	149
78	Thapsigargin blocks the induction of long-term potentiation in rat hippocampal slices. Neuroscience Letters, 1992, 139, 197-200.	1.0	148
79	An Essential Role for PICK1 in NMDA Receptor-Dependent Bidirectional Synaptic Plasticity. Neuron, 2008, 57, 872-882.	3.8	147
80	The potent mGlu receptor antagonist LY341495 identifies roles for both cloned and novel mGlu receptors in hippocampal synaptic plasticity. Neuropharmacology, 1998, 37, 1445-1458.	2.0	145
81	Low-frequency activation of the NMDA receptor system can prevent the induction of LTP. Neuroscience Letters, 1989, 105, 205-210.	1.0	143
82	Antagonists of GLUK5-containing kainate receptors prevent pilocarpine-induced limbic seizures. Nature Neuroscience, 2002, 5, 796-804.	7.1	143
83	The GluR5 subtype of kainate receptor regulates excitatory synaptic transmission in areas CA1 and CA3 of the rat hippocampus. Neuropharmacology, 1998, 37, 1269-1277.	2.0	142
84	Inhibitory postâ€synaptic currents in rat hippocampal CA1 neurones.. Journal of Physiology, 1984, 356, 551-564.	1.3	141
85	Intracellular demonstration of an N-methyl-d-aspartate receptor mediated component of synaptic transmission in the rat hippocampus. Neuroscience Letters, 1985, 60, 19-23.	1.0	141
86	Signal transduction pathways involved in the acute potentiation of NMDA responses by 1S,3Râ€ACPD in rat hippocampal slices. British Journal of Pharmacology, 1993, 109, 1085-1090.	2.7	132
87	The Nitric Oxide - Cyclic GMP Pathway and Synaptic Depression in Rat Hippocampal Slices. European Journal of Neuroscience, 1994, 6, 1528-1535.	1.2	131
88	PI3KÎ³ is required for NMDA receptorâ€“dependent long-term depression and behavioral flexibility. Nature Neuroscience, 2011, 14, 1447-1454.	7.1	126
89	A new intrathalamic pathway linking modality-related nuclei in the dorsal thalamus. Nature Neuroscience, 1998, 1, 389-394.	7.1	122
90	Functional Maturation of CA1 Synapses Involves Activity-Dependent Loss of Tonic Kainate Receptor-Mediated Inhibition of Glutamate Release. Neuron, 2006, 50, 415-429.	3.8	121

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91	Interactions between Ca2+ mobilizing mechanisms in cultured rat cerebellar granule cells.. Journal of Physiology, 1992, 456, 667-680.	1.3	120
92	Hippocalcin Functions as a Calcium Sensor in Hippocampal LTD. Neuron, 2005, 47, 487-494.	3.8	120
93	Effects of memantine and MKâ€801 on NMDAâ€induced currents in cultured neurones and on synaptic transmission and LTP in area CA1 of rat hippocampal slices. British Journal of Pharmacology, 1996, 117, 689-697.	2.7	119
94	Bidirectional modulation of hyperalgesia via the specific control of excitatory and inhibitory neuronal activity in the ACC. Molecular Brain, 2015, 8, 81.	1.3	118
95	NMDA receptor-dependent long-term potentiation comprises a family of temporally overlapping forms of synaptic plasticity that are induced by different patterns of stimulation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130131.	1.8	116
96	Metabotropic glutamate receptors contribute to the induction of long-term depression in the CA1 region of the hippocampus. European Journal of Pharmacology, 1993, 239, 265-266.	1.7	112
97	Endogenous Activation of Kainate Receptors Regulates Glutamate Release and Network Activity in the Developing Hippocampus. Journal of Neuroscience, 2005, 25, 4473-4484.	1.7	105
98	The C-terminal tails of endogenous GluA1 and GluA2 differentially contribute to hippocampal synaptic plasticity and learning. Nature Neuroscience, 2018, 21, 50-62.	7.1	105
99	CGP 55845A: A potent antagonist of GABAb receptors in the CA1 region of rat hippocampus. Neuropharmacology, 1993, 32, 1071-1073.	2.0	103
100	Transient synaptic activation of NMDA receptors leads to the insertion of native AMPA receptors at hippocampal neuronal plasma membranes. Neuropharmacology, 2001, 41, 700-713.	2.0	101
101	Metabotropic Glutamate Receptor-Mediated LTD Involves Two Interacting Ca2+ Sensors, NCS-1 and PICK1. Neuron, 2008, 60, 1095-1111.	3.8	100
102	The influence of striatal stimulation and putative neurotransmitters on identified neurones in the rat substantia nigra. Brain Research, 1981, 212, 345-359.	1.1	98
103	A novel anti-epileptic agent, perampanel, selectively inhibits AMPA receptor-mediated synaptic transmission in the hippocampus. Neurochemistry International, 2012, 61, 517-522.	1.9	97
104	Pharmacology of postsynaptic metabotropic glutamate receptors in rat hippocampal CA1 pyramidal neurones. British Journal of Pharmacology, 1995, 116, 1859-1869.	2.7	93
105	Pharmacological antagonism of the actions of group II and III mGluR agonists in the lateral perforant path of rat hippocampal slices. British Journal of Pharmacology, 1996, 117, 1457-1462.	2.7	93
106	Muscarinic receptors induce LTD of NMDAR EPSCs via a mechanism involving hippocalcin, AP2 and PSD-95. Nature Neuroscience, 2010, 13, 1216-1224.	7.1	93
107	Characterisation of UBP296: a novel, potent and selective kainate receptor antagonist. Neuropharmacology, 2004, 47, 46-64.	2.0	92
108	Coâ€activation of p38 mitogenâ€activated protein kinase and protein tyrosine phosphatase underlies metabotropic glutamate receptorâ€dependent longâ€term depression. Journal of Physiology, 2008, 586, 2499-2510.	1.3	92

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109	Acute stress causes rapid synaptic insertion of Ca2+-permeable AMPA receptors to facilitate long-term potentiation in the hippocampus. Brain, 2013, 136, 3753-3765.	3.7	92
110	Introduction. Philosophical Transactions of the Royal Society B: Biological Sciences, 2003, 358, 607-611.	1.8	91
111	Effects of memantine on recombinant rat NMDA receptors expressed in HEK 293 cells. British Journal of Pharmacology, 1996, 119, 195-204.	2.7	90
112	Synaptic activation of a presynaptic kainate receptor facilitates AMPA receptor-mediated synaptic transmission at hippocampal mossy fibre synapses.. Neuropharmacology, 2001, 41, 907-915.	2.0	86
113	N-Methyl-D-aspartate receptors are clustered and immobilized on dendrites of living cortical neurons.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 7819-7823.	3.3	85
114	Intracellular oligomeric amyloid-beta rapidly regulates GluA1 subunit of AMPA receptor in the hippocampus. Scientific Reports, 2015, 5, 10934.	1.6	85
115	Role of Ca²⁺Stores in Metabotropicl-Glutamate Receptor-Mediated Supralinear Ca²⁺Signaling in Rat Hippocampal Neurons. Journal of Neuroscience, 2000, 20, 8628-8636.	1.7	83
116	Different NMDA receptor subtypes mediate induction of longâ€term potentiation and two forms of shortâ€term potentiation at CA1 synapses in rat hippocampus <i>in vitro</i>. Journal of Physiology, 2013, 591, 955-972.	1.3	83
117	Characterization of an N-methyl-d-aspartate receptor component of synaptic transmission in rat hippocampal slices. Neuroscience, 1987, 22, 1-8.	1.1	82
118	GABAB Receptors Couple Directly to the Transcription Factor ATF4. Molecular and Cellular Neurosciences, 2001, 17, 637-645.	1.0	82
119	A systematic investigation of the protein kinases involved in NMDA receptor-dependent LTD: evidence for a role of GSK-3 but not other serine/threonine kinases. Molecular Brain, 2009, 2, 22.	1.3	82
120	A comparison of paired-pulse facilitation of AMPA and NMDA receptor-mediated excitatory postsynaptic currents in the hippocampus. Experimental Brain Research, 1994, 101, 272-278.	0.7	81
121	Targeting Synaptic Dysfunction in Alzheimerâ€™s Disease Therapy. Molecular Neurobiology, 2012, 46, 572-587.	1.9	80
122	Calcium-Permeable AMPA Receptors Mediate the Induction of the Protein Kinase A-Dependent Component of Long-Term Potentiation in the Hippocampus. Journal of Neuroscience, 2016, 36, 622-631.	1.7	80
123	The Small GTPase Arf1 Modulates Arp2/3-Mediated Actin Polymerization via PICK1 to Regulate Synaptic Plasticity. Neuron, 2013, 79, 293-307.	3.8	79
124	The brain slice preparation: a tribute to the pioneer Henry McIlwain. Journal of Neuroscience Methods, 1995, 59, 5-9.	1.3	77
125	Activation of glutamate metabotropic receptors induces long-term potentiation. European Journal of Pharmacology, 1992, 214, 297-298.	1.7	76
126	Activation of the glycine site in the NMDA receptor is necessary for the induction of LTP. Neuroscience Letters, 1990, 108, 261-266.	1.0	75

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127	An investigation into signal transduction mechanisms involved in DHPG-induced LTD in the CA1 region of the hippocampus. Neuropharmacology, 1999, 38, 1585-1596.	2.0	75
128	L-glutamate and acetylcholine mobilise Ca2+ from the same intracellular pool in cerebellar granule cells using transduction mechanisms with different Ca2+ sensitivities. Cell Calcium, 1992, 13, 293-301.	1.1	74
129	A Presynaptic Kainate Receptor Is Involved in Regulating the Dynamic Properties of Thalamocortical Synapses during Development. Neuron, 2002, 34, 635-646.	3.8	74
130	The regulation of hippocampal LTP by the molecular switch, a form of metaplasticity, requires mGlu5 receptors. Neuropharmacology, 2005, 49, 13-25.	2.0	73
131	The synaptic activation of the GluR5 subtype of kainate receptor in area CA3 of the rat hippocampus. Neuropharmacology, 1997, 36, 1477-1481.	2.0	72
132	Calcium stores and synaptic plasticity. Cell Calcium, 2002, 32, 405-411.	1.1	72
133	Presynaptic mechanisms involved in the expression of STP and LTP at CA1 synapses in the hippocampus. Neuropharmacology, 2007, 52, 1-11.	2.0	72
134	Long-term potentiation in the hippocampus: discovery, mechanisms and function. Neuroforum, 2018, 24, A103-A120.	0.2	72
135	Synthesis and Pharmacological Characterization of N3-Substituted Willardiine Derivatives:Â Role of the Substituent at the 5-Position of the Uracil Ring in the Development of Highly Potent and Selective GLUK5Kainate Receptor Antagonists. Journal of Medicinal Chemistry, 2007, 50, 1558-1570.	2.9	70
136	Localization of the glutamate receptor subunit GluR1 on the surface of living and within cultured hippocampal neurons. Neuroscience, 1996, 75, 69-82.	1.1	69
137	Autism-Misregulated eIF4G Microexons Control Synaptic Translation and Higher Order Cognitive Functions. Molecular Cell, 2020, 77, 1176-1192.e16.	4.5	69
138	A novel, competitive mGlu5 receptor antagonist (LY344545) blocks DHPG-induced potentiation of NMDA responses but not the induction of LTP in rat hippocampal slices. British Journal of Pharmacology, 2000, 131, 239-244.	2.7	68
139	The Role of Calcium-Permeable AMPARs in Long-Term Potentiation at Principal Neurons in the Rodent Hippocampus. Frontiers in Synaptic Neuroscience, 2018, 10, 42.	1.3	68
140	Tyrosine dephosphorylation regulates AMPAR internalisation in mGluR-LTD. Molecular and Cellular Neurosciences, 2009, 40, 267-279.	1.0	67
141	Shank mutant mice as an animal model of autism. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130143.	1.8	67
142	Multiple, Developmentally Regulated Expression Mechanisms of Long-Term Potentiation at CA1 Synapses. Journal of Neuroscience, 2004, 24, 4903-4911.	1.7	66
143	Plasticity of Metabotropic Glutamate Receptor-Dependent Long-Term Depression in the Anterior Cingulate Cortex after Amputation. Journal of Neuroscience, 2012, 32, 11318-11329.	1.7	66
144	A characterization of muscarinic receptor-mediated intracellular Ca2+mobilization in cultured rat hippocampal neurones. Journal of Physiology, 1998, 511, 747-759.	1.3	65

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145	Pharmacological evidence for an involvement of group II and group III mGluRs in the presynaptic regulation of excitatory synaptic responses in the CA1 region of rat hippocampal slices. Neuropharmacology, 1995, 34, 973-982.	2.0	64
146	A role for protein kinase C in a form of metaplasticity that regulates the induction of long-term potentiation at CA1 synapses of the adult rat hippocampus. European Journal of Neuroscience, 2000, 12, 4055-4062.	1.2	62
147	A novel mechanism of hippocampal LTD involving muscarinic receptor-triggered interactions between AMPARs, GRIP and liprin-Î±. Molecular Brain, 2009, 2, 18.	1.3	62
148	Studies on the role of metabotropic glutamate receptors in long-term potentiation: some methodological considerations. Journal of Neuroscience Methods, 1995, 59, 19-24.	1.3	61
149	Effect of Tetanus Toxin on Transmitter Release from the Substantia Nigra and Striatum In Vitro. Journal of Neurochemistry, 1980, 34, 540-547.	2.1	58
150	Phosphatidylinositol 3 kinase regulates synapse specificity of hippocampal long-term depression. Nature Neuroscience, 2002, 5, 835-836.	7.1	57
151	Bi-directional modulation of AMPA receptor unitary conductance by synaptic activity. BMC Neuroscience, 2004, 5, 44.	0.8	56
152	Altered Short-Term Synaptic Plasticity in Mice Lacking the Metabotropic Glutamate Receptor mGlu7. Scientific World Journal, The, 2002, 2, 730-737.	0.8	55
153	Pharmacological Investigations of the Dissociative â€˜Legal Highsâ€™ Diphenidine, Methoxphenidine and Analogues. PLoS ONE, 2016, 11, e0157021.	1.1	55
154	Hippocampal metabotropic glutamate receptor longâ€term depression in health and disease: focusÂon mitogenâ€activated protein kinase pathways. Journal of Neurochemistry, 2016, 139, 200-214.	2.1	55
155	Antagonism of the synaptic depressant actions of l-AP4 in the lateral perforant path by MAP4. Neuropharmacology, 1995, 34, 239-241.	2.0	54
156	Ca2+ and synaptic plasticity. Cell Calcium, 1998, 24, 377-385.	1.1	54
157	Long-term potentiation of synaptic transmission in the adult mouse insular cortex: multielectrode array recordings. Journal of Neurophysiology, 2013, 110, 505-521.	0.9	54
158	Ketamine blocks an NMDA receptor-mediated component of synaptic transmission in rat hippocampus in a voltage-dependent manner. Neuroscience Letters, 1988, 92, 213-217.	1.0	53
159	Activation of a K-252b-Sensitive Protein Kinase is Necessary for a Post-Synaptic Phase of Long-Term Potentiation in Area CA1 of Rat Hippocampus. European Journal of Neuroscience, 1990, 2, 481-486.	1.2	53
160	On the mechanism of long-term potentiation induced by (1S,3R)-1-aminocyclopentane-1,3-dicarboxylic acid (ACPD) in rat hippocampal slices. Neuropharmacology, 1995, 34, 1003-1014.	2.0	53
161	The Methylazoxymethanol Acetate (MAM-E17) Rat Model: Molecular and Functional Effects in the Hippocampus. Neuropsychopharmacology, 2012, 37, 364-377.	2.8	53
162	Involvement of calcium/calmodulin-dependent protein kinases in the setting of a molecular switch involved in hippocampal LTP. Neuropharmacology, 1998, 37, 535-544.	2.0	51

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163	Protein phosphatase inhibitors facilitate DHPG-induced LTD in the CA1 region of the hippocampus. British Journal of Pharmacology, 2001, 132, 1095-1101.	2.7	51
164	Synthesis and Pharmacology of Willardiine Derivatives Acting as Antagonists of Kainate Receptors. Journal of Medicinal Chemistry, 2005, 48, 7867-7881.	2.9	51
165	In Vitro Effect of Tetanus Toxin on GAB A Release from Rat Hippocampal Slices. Journal of Neurochemistry, 1981, 37, 1039-1041.	2.1	50
166	Structureâ˘Activity Relationship Studies on N3-Substituted Willardiine Derivatives Acting as AMPA or Kainate Receptor Antagonists. Journal of Medicinal Chemistry, 2006, 49, 2579-2592.	2.9	50
167	Tyrosine dephosphorylation underlies DHPG-induced LTD. Neuropharmacology, 2002, 43, 175-180.	2.0	49
168	Parallel kinase cascades are involved in the induction of LTP at hippocampal CA1 synapses. Neuropharmacology, 2003, 45, 828-836.	2.0	49
169	Kainate receptors and the induction of mossy fibre long-term potentiation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2003, 358, 657-666.	1.8	49
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