# Graham L Collingridge

List of Publications by Year
in descending order



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

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

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The anabolic effect of inorganic polyphosphate on chondrocytes is mediated by calcium signalling. Journal of Orthopaedic Research, 2022, 40, 310-322. | 1.2 | 5 |
| 2 | The continually evolving role of NMDA receptors in neurobiology and disease. Neuropharmacology, 2022, 210, 109042. | 2.0 | 3 |
| 3 | Decellularization of porcine kidney with submicellar concentrations of SDS results in the retention of ECM proteins required for the adhesion and maintenance of human adult renal epithelial cells. Biomaterials Science, 2022, 10, 2972-2990. | 2.6 | 8 |
| 4 | Selective Recruitment of Presynaptic and Postsynaptic Forms of mGluR-LTD. Frontiers in Synaptic Neuroscience, 2022, 14, . | 1.3 | 6 |
| 5 | GSKâ€3Î² regulates the synaptic expression of NMDA receptors via phosphorylation of phosphatidylinositol 4 kinase type IIÎ±. European Journal of Neuroscience, 2021, 54, 6815-6825. | 1.2 | 11 |
| 6 | Further evidence that CP-AMPARs are critically involved in synaptic tag and capture at hippocampal CA1 synapses. Molecular Brain, 2021, 14, 26. | 1.3 | 8 |
| 7 | A tribute to Chris Parsons. Neuropharmacology, 2021, 195, 108633. | 2.0 | 2 |
| 8 | PKA drives an increase in AMPA receptor unitary conductance during LTP in the hippocampus. Nature Communications, 2021, 12, 413. | 5.8 | 27 |
| 9 | Synthesis and pharmacological characterisation of arctigenin analogues as antagonists of AMPA and kainate receptors. Organic and Biomolecular Chemistry, 2021, 19, 9154-9162. | 1.5 | 6 |
| 10 | Multiple roles of GluN2D-containing NMDA receptors in short-term potentiation and long-term potentiation in mouse hippocampal slices. Neuropharmacology, 2021, 201, 108833. | 2.0 | 10 |
| 11 | The GSK-3 Inhibitor CT99021 Enhances the Acquisition of Spatial Learning and the Accuracy of Spatial Memory. Frontiers in Molecular Neuroscience, 2021, 14, 804130. | 1.4 | 4 |
| 12 | Mice lacking neuronal calcium sensor-1 show social and cognitive deficits. Behavioural Brain Research, 2020, 381, 112420. | 1.2 | 9 |
| 13 | (2S,6S)- and (2R,6R)-hydroxynorketamine inhibit the induction of NMDA receptor-dependent LTP at hippocampal CA1 synapses in mice. Brain and Neuroscience Advances, 2020, 4, 239821282095784. | 1.8 | 5 |
| 14 | Optogenetic Manipulation of Postsynaptic cAMP Using a Novel Transgenic Mouse Line Enables Synaptic Plasticity and Enhances Depolarization Following Tetanic Stimulation in the Hippocampal Dentate Gyrus. Frontiers in Neural Circuits, 2020, 14, 24. | 1.4 | 6 |
| 15 | Autism-Misregulated eIF4G Microexons Control Synaptic Translation and Higher Order Cognitive Functions. Molecular Cell, 2020, 77, 1176-1192.e16. | 4.5 | 69 |
| 16 | Structural basis of subtype-selective competitive antagonism for GluN2C/2D-containing NMDA receptors. Nature Communications, 2020, 11, 423. | 5.8 | 19 |
| 17 | Illuminating Relationships Between the Pre- and Post-synapse. Frontiers in Neural Circuits, 2020, 14, 9. | 1.4 | 8 |
| 18 | The Hippocampus Is the Place to Be: Opioid Receptors and LTP. Cell Reports, 2019, 28, 1117-1118. | 2.9 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | On the Role of Calcium-Permeable AMPARs in Long-Term Potentiation and Synaptic Tagging in the Rodent Hippocampus. Frontiers in Synaptic Neuroscience, 2019, 11, 4. | 1.3 | 19 |
| 20 | Differential sensitivity of three forms of hippocampal synaptic potentiation to depotentiation. Molecular Brain, 2019, 12, 30. | 1.3 | 6 |
| 21 | Investigation of the structural requirements for N-methyl-D-aspartate receptor positive and negative allosteric modulators based on 2-naphthoic acid. European Journal of Medicinal Chemistry, 2019, 164, 471-498. | 2.6 | 10 |
| 22 | Rapid Turnover of Cortical NCAM1 Regulates Synaptic Reorganization after Peripheral Nerve Injury. Cell Reports, 2018, 22, 748-759. | 2.9 | 35 |
| 23 | <scp>NMDAR</scp> â€dependent Argonaute 2 phosphorylation regulates mi <scp>RNA</scp> activity and dendritic spine plasticity. EMBO Journal, 2018, 37, . | 3.5 | 32 |
| 24 | 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 |
| 25 | Corrigendum to: Long-term potentiation in the hippocampus: discovery, mechanisms and function. Neuroforum, 2018, 24, A91-A91. | 0.2 | 0 |
| 26 | Corrigendum zu: Langzeitpotenzierung im Hippokampus: Entdeckung, Mechanismen und Funktion. Neuroforum, 2018, 24, 305-305. | 0.2 | 0 |
| 27 | Langzeitpotenzierung im Hippokampus: Entdeckung, Mechanismen und Funktion. Neuroforum, 2018, 24, 163-185. | 0.2 | 0 |
| 28 | The Probability of Neurotransmitter Release Governs AMPA Receptor Trafficking via Activity-Dependent Regulation of mGluR1 Surface Expression. Cell Reports, 2018, 25, 3631-3646.e3. | 2.9 | 13 |
| 29 | 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 |
| 30 | Long-term potentiation in the hippocampus: discovery, mechanisms and function. Neuroforum, 2018, 24, A103-A120. | 0.2 | 72 |
| 31 | Some distorted thoughts about ketamine as a psychedelic and a novel hypothesis based on NMDA receptor-mediated synaptic plasticity. Neuropharmacology, 2018, 142, 30-40. | 2.0 | 26 |
| 32 | Prevalence and influence of cys407* Grm2 mutation in Hannover-derived Wistar rats: mGlu2 receptor loss links to alcohol intake, risk taking and emotional behaviour. Neuropharmacology, 2017, 115, 128-138. | 2.0 | 42 |
| 33 | Learning about Synaptic GluA3. Neuron, 2017, 93, 254-256. | 3.8 | 3 |
| 34 | Differential ability of the dorsal and ventral rat hippocampus to exhibit group I metabotropic glutamate receptorâ€“dependent synaptic and intrinsic plasticity. Brain and Neuroscience Advances, 2017, 1, 239821281668979. | 1.8 | 16 |
| 35 | Metabotropic glutamate receptors, 5 years on. Neuropharmacology, 2017, 115, 1-3. | 2.0 | 4 |
| 36 | Regulation of Hippocampal mGluR-Dependent Long-Term Depression by GluA2-Dependent Cofilin-Mediated Actin Remodeling. , 2017, , 225-239. | | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Mechanism and properties of positive allosteric modulation of N -methyl- d -aspartate receptors by 6-alkyl 2-naphthoic acid derivatives. Neuropharmacology, 2017, 125, 64-79. | 2.0 | 15 |
| 38 | Synaptoimmunology - roles in health and disease. Molecular Brain, 2017, 10, 26. | 1.3 | 36 |
| 39 | Ephenidine: A new psychoactive agent with ketamine-like NMDA receptor antagonist properties. Neuropharmacology, 2017, 112, 144-149. | 2.0 | 24 |
| 40 | Developmental regulation of hippocampal long-term depression by cofilin-mediated actin reorganization. Neuropharmacology, 2017, 112, 66-75. | 2.0 | 12 |
| 41 | Ionotropic glutamate receptors: Still exciting after all these years. Neuropharmacology, 2017, 112, 1-3. | 2.0 | 2 |
| 42 | Antidepressant Actions of Ketamine Versus Hydroxynorketamine. Biological Psychiatry, 2017, 81, e65-e67. | 0.7 | 38 |
| 43 | Multiple roles of GluN2B-containing NMDA receptors in synaptic plasticity in juvenile hippocampus. Neuropharmacology, 2017, 112, 76-83. | 2.0 | 33 |
| 44 | Pharmacological Investigations of the Dissociative â€˜Legal Highsâ€™ Diphenidine, Methoxphenidine and Analogues. PLoS ONE, 2016, 11, e0157021. | 1.1 | 55 |
| 45 | Synaptic plasticity in the anterior cingulate cortex in acute and chronic pain. Nature Reviews Neuroscience, 2016, 17, 485-496. | 4.9 | 509 |
| 46 | 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 |
| 47 | 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 |
| 48 | The Role of Hippocampal NMDA Receptors in Long-Term Emotional Responses following Muscarinic Receptor Activation. PLoS ONE, 2016, 11, e0147293. | 1.1 | 11 |
| 49 | An interchangeable role for kainate and metabotropic glutamate receptors in the induction of rat hippocampal mossy fiber longâ€term potentiation in vivo. Hippocampus, 2015, 25, 1407-1417. | 0.9 | 5 |
| 50 | Intracellular oligomeric amyloid-beta rapidly regulates GluA1 subunit of AMPA receptor in the hippocampus. Scientific Reports, 2015, 5, 10934. | 1.6 | 85 |
| 51 | 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 |
| 52 | Trans-Modulation of the Somatostatin Type 2A Receptor Trafficking by Insulin-Regulated Aminopeptidase Decreases Limbic Seizures. Journal of Neuroscience, 2015, 35, 11960-11975. | 1.7 | 16 |
| 53 | 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 |
| 54 | Long-term potentiation and the role of N -methyl- d -aspartate receptors. Brain Research, 2015, 1621, 5-16. | 1.1 | 199 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Synthesis of a Series of Novel 3,9-Disubstituted Phenanthrenes as Analogues of Known N-Methyl-d-aspartate Receptor Allosteric Modulators. Synthesis, 2015, 47, 1593-1610. | 1.2 | 9 |
| 56 | 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 |
| 57 | Effects of PI3KÎ² overexpression in the hippocampus on synaptic plasticity and spatial learning. Molecular Brain, 2014, 7, 78. | 1.3 | 28 |
| 58 | Shank mutant mice as an animal model of autism. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130143. | 1.8 | 67 |
| 59 | Strippers Reveal Their Depressing Secrets: Removing AMPA Receptors. Neuron, 2014, 82, 3-6. | 3.8 | 9 |
| 60 | 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 |
| 61 | Rapid regulation of endoplasmic reticulum dynamics in dendritic spines by NMDA receptor activation. Molecular Brain, 2014, 7, 60. | 1.3 | 25 |
| 62 | Expression of NMDA receptor-dependent LTP in the hippocampus: bridging the divide. Molecular Brain, 2013, 6, 5. | 1.3 | 239 |
| 63 | Longâ€term depression of synaptic transmission in the adult mouse insular cortex in vitro. European Journal of Neuroscience, 2013, 38, 3128-3145. | 1.2 | 28 |
| 64 | Wavelet Transform-Based De-Noising for Two-Photon Imaging of Synaptic Ca 2+ Transients. Biophysical Journal, 2013, 104, 1006-1017. | 0.2 | 10 |
| 65 | 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 |
| 66 | 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 |
| 67 | Different NMDA receptor subtypes mediate induction of longâ€term potentiation and two forms of shortâ€term potentiation at CA1 synapses in rat hippocampus in vitro. Journal of Physiology, 2013, 591, 955-972. | 1.3 | 83 |
| 68 | The Small GTPase Arf1 Modulates Arp2/3-Mediated Actin Polymerization via PICK1 to Regulate Synaptic Plasticity. Neuron, 2013, 79, 293-307. | 3.8 | 79 |
| 69 | Antagonists reversibly reverse chemical LTD induced by group I, group II and group III metabotropic glutamate receptors. Neuropharmacology, 2013, 74, 135-146. | 2.0 | 26 |
| 70 | Differentiating the roles of mGlu2 and mGlu3 receptors using LY541850, an mGlu2 agonist/mGlu3 antagonist. Neuropharmacology, 2013, 66, 114-121. | 2.0 | 26 |
| 71 | Characterisation of an mGlu8 receptor-selective agonist and antagonist in the lateral and medial perforant path inputs to the dentate gyrus. Neuropharmacology, 2013, 67, 294-303. | 2.0 | 13 |
| 72 | Selective activation of either mGlu2 or mGlu3 receptors can induce LTD in the amygdala. Neuropharmacology, 2013, 66, 196-201. | 2.0 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | G proteinâ€“coupled receptor kinase 2 and group I metabotropic glutamate receptors mediate inflammationâ€induced sensitization to excitotoxic neurodegeneration. Annals of Neurology, 2013, 73, 667-678. | 2.8 | 44 |
| 74 | The NMDA receptor as a target for cognitive enhancement. Neuropharmacology, 2013, 64, 13-26. | 2.0 | 206 |
| 75 | The role of JAK-STAT signaling within the CNS. Jak-stat, 2013, 2, e22925. | 2.2 | 207 |
| 76 | The roles of STP and LTP in synaptic encoding. PeerJ, 2013, 1, e3. | 0.9 | 36 |
| 77 | The Methylazoxymethanol Acetate (MAM-E17) Rat Model: Molecular and Functional Effects in the Hippocampus. Neuropsychopharmacology, 2012, 37, 364-377. | 2.8 | 53 |
| 78 | 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 |
| 79 | A pivotal role of GSK-3 in synaptic plasticity. Frontiers in Molecular Neuroscience, 2012, 5, 13. | 1.4 | 149 |
| 80 | Synaptic Kainate Receptors in CA1 Interneurons Gate the Threshold of Theta-Frequency-Induced Long-Term Potentiation. Journal of Neuroscience, 2012, 32, 18215-18226. | 1.7 | 13 |
| 81 | 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 |
| 82 | Inactivation of the Constitutively Active Ghrelin Receptor Attenuates Limbic Seizure Activity in Rodents. Neurotherapeutics, 2012, 9, 658-672. | 2.1 | 30 |
| 83 | Piperazine-2,3-dicarboxylic Acid Derivatives as Dual Antagonists of NMDA and GluK1-Containing Kainate Receptors. Journal of Medicinal Chemistry, 2012, 55, 327-341. | 2.9 | 19 |
| 84 | The JAK/STAT Pathway Is Involved in Synaptic Plasticity. Neuron, 2012, 73, 374-390. | 3.8 | 185 |
| 85 | Alterations in hippocampal excitability, synaptic transmission and synaptic plasticity in a neurodevelopmental model of schizophrenia. Neuropharmacology, 2012, 62, 1349-1358. | 2.0 | 44 |
| 86 | Targeting Synaptic Dysfunction in Alzheimerâ€™s Disease Therapy. Molecular Neurobiology, 2012, 46, 572-587. | 1.9 | 80 |
| 87 | Coumarin-3-carboxylic acid derivatives as potentiators and inhibitors of recombinant and native N-methyl-d-aspartate receptors. Neurochemistry International, 2012, 61, 593-600. | 1.9 | 37 |
| 88 | 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 |
| 89 | Differences in kainate receptor involvement in hippocampal mossy fibre long-term potentiation depending on slice orientation. Neurochemistry International, 2012, 61, 482-489. | 1.9 | 13 |
| 90 | Automated multi-slice extracellular and patch-clamp experiments using the WinLTP data acquisition system with automated perfusion control. Journal of Neuroscience Methods, 2012, 207, 148-160. | 1.3 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Synaptic Plasticity in the Hippocampal Slice Preparation. Current Protocols in Neuroscience, 2011, 54, Unit 6.13. | 2.6 | 27 |
| 92 | PI3KÎ³ is required for NMDA receptorâ€“dependent long-term depression and behavioral flexibility. Nature Neuroscience, 2011, 14, 1447-1454. | 7.1 | 126 |
| 93 | Introduction to the special issue on High Resolution Neuropharmacology. Neuropharmacology, 2011, 60, 1-2. | 2.0 | 1 |
| 94 | Metabotropic glutamate receptors: From the workbench to the bedside. Neuropharmacology, 2011, 60, 1017-1041. | 2.0 | 559 |
| 95 | LTP in hippocampal neurons is associated with a CaMKII-mediated increase in GluA1 surface expression. Journal of Neurochemistry, 2011, 116, 530-543. | 2.1 | 39 |
| 96 | Sustained calcium signalling and caspase-3 activation involve NMDA receptors in thymocytes in contact with dendritic cells. Cell Death and Differentiation, 2011, 18, 99-108. | 5.0 | 48 |
| 97 | 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 |
| 98 | Erasing injury-related cortical synaptic potentiation as a new treatment for chronic pain. Journal of Molecular Medicine, 2011, 89, 847-855. | 1.7 | 22 |
| 99 | Differential trafficking of AMPA receptors following activation of NMDA receptors and mGluRs. Molecular Brain, 2011, 4, 30. | 1.3 | 34 |
| 100 | Study of Novel Selective mGlu2 Agonist in the Temporo-Ammonic Input to CA1 Neurons Reveals Reduced mGlu2 Receptor Expression in a Wistar Substrain with an Anxiety-Like Phenotype. Journal of Neuroscience, 2011, 31, 6721-6731. | 1.7 | 33 |
| 101 | Synergistic interactions between kainate and mGlu receptors regulate bouton Ca2+ signalling and mossy fibre LTP. Scientific Reports, 2011, 1, 103. | 1.6 | 17 |
| 102 | Alleviating Neuropathic Pain Hypersensitivity by Inhibiting PKMÎ¶ in the Anterior Cingulate Cortex. Science, 2010, 330, 1400-1404. | 6.0 | 350 |
| 103 | Disruption of the interaction between myosin VI and SAP97 is associated with a reduction in the number of AMPARs at hippocampal synapses. Journal of Neurochemistry, 2010, 112, 677-690. | 2.1 | 43 |
| 104 | Long-term depression in the CNS. Nature Reviews Neuroscience, 2010, 11, 459-473. | 4.9 | 785 |
| 105 | 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 |
| 106 | A study of long-term potentiation in transgenic mice over-expressing mutant forms of both amyloid precursor protein and presenilin-1. Molecular Brain, 2010, 3, 21. | 1.3 | 13 |
| 107 | Chapter 2 Gluk1 Receptor Antagonists and Hippocampal Mossy Fiber Function. International Review of Neurobiology, 2009, 85, 13-27. | 0.9 | 6 |
| 108 | Rapid endocytosis provides restricted somatic expression of a K+ channel in central neurons. Journal of Cell Science, 2009, 122, 4186-4194. | 1.2 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | A nomenclature for ligand-gated ion channels. Neuropharmacology, 2009, 56, 2-5. | 2.0 | 531 |
| 110 | ACET is a highly potent and specific kainate receptor antagonist: Characterisation and effects on hippocampal mossy fibre function. Neuropharmacology, 2009, 56, 121-130. | 2.0 | 44 |
| 111 | Kainate receptors: Pharmacology, function and therapeutic potential. Neuropharmacology, 2009, 56, 90-113. | 2.0 | 242 |
| 112 | Editorial. Neuropharmacology, 2009, 56, 1. | 2.0 | 23 |
| 113 | Tyrosine dephosphorylation regulates AMPAR internalisation in mGluR-LTD. Molecular and Cellular Neurosciences, 2009, 40, 267-279. | 1.0 | 67 |
| 114 | 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 |
| 115 | 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 |
| 116 | Neuronal calcium sensors and synaptic plasticity. Biochemical Society Transactions, 2009, 37, 1359-1363. | 1.6 | 45 |
| 117 | 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 |
| 118 | The use of the hippocampal slice preparation in the study of Alzheimer's disease. European Journal of Pharmacology, 2008, 585, 50-59. | 1.7 | 17 |
| 119 | An Essential Role for PICK1 in NMDA Receptor-Dependent Bidirectional Synaptic Plasticity. Neuron, 2008, 57, 872-882. | 3.8 | 147 |
| 120 | Metabotropic Glutamate Receptor-Mediated LTD Involves Two Interacting Ca2+ Sensors, NCS-1 and PICK1. Neuron, 2008, 60, 1095-1111. | 3.8 | 100 |
| 121 | The induction of long-term plasticity of non-synaptic, synchronized activity by the activation of group I mGluRs. Neuropharmacology, 2008, 55, 459-463. | 2.0 | 7 |
| 122 | An analysis of the stimulus requirements for setting the molecular switch reveals a lower threshold for metaplasticity than synaptic plasticity. Neuropharmacology, 2008, 55, 454-458. | 2.0 | 11 |
| 123 | 2008 Eruptions in metabotropic glutamate receptors. Neuropharmacology, 2008, 55, 391. | 2.0 | 1 |
| 124 | Mechanisms Involved in the Reduction of GABAA Receptor Î±1-Subunit Expression Caused by the Epilepsy Mutation A322D in the Trafficking-competent Receptor. Journal of Biological Chemistry, 2008, 283, 22043-22050. | 1.6 | 34 |
| 125 | The Tyrosine Phosphatase STEP Mediates AMPA Receptor Endocytosis after Metabotropic Glutamate Receptor Stimulation. Journal of Neuroscience, 2008, 28, 10561-10566. | 1.7 | 169 |
| 126 | Inhibition of Kainate Receptors Reduces the Frequency of Hippocampal Theta Oscillations. Journal of Neuroscience, 2007, 27, 2212-2223. | 1.7 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | LTP Inhibits LTD in the Hippocampus via Regulation of GSK3Î². Neuron, 2007, 53, 703-717. | 3.8 | 632 |
| 128 | Presynaptic mechanisms involved in the expression of STP and LTP at CA1 synapses in the hippocampus. Neuropharmacology, 2007, 52, 1-11. | 2.0 | 72 |
| 129 | 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 |
| 130 | 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 |
| 131 | Capabilities of the WinLTP data acquisition program extending beyond basic LTP experimental functions. Journal of Neuroscience Methods, 2007, 162, 346-356. | 1.3 | 214 |
| 132 | NEUROSCIENCE: Enhanced: ZAP and ZIP, a Story to Forget. Science, 2006, 313, 1058-1059. | 6.0 | 45 |
| 133 | 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 |
| 134 | Promiscuous Interactions between AMPA-Rs and MAGUKs. Neuron, 2006, 52, 222-224. | 3.8 | 17 |
| 135 | Transient incorporation of native GluR2-lacking AMPA receptors during hippocampal long-term potentiation. Nature Neuroscience, 2006, 9, 602-604. | 7.1 | 464 |
| 136 | Novel pharmacological targets for the treatment of Parkinson's disease. Nature Reviews Drug Discovery, 2006, 5, 845-854. | 21.5 | 262 |
| 137 | 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 |
| 138 | Tyrosine Phosphatases Regulate AMPA Receptor Trafficking during Metabotropic Glutamate Receptor-Mediated Long-Term Depression. Journal of Neuroscience, 2006, 26, 2544-2554. | 1.7 | 162 |
| 139 | Mechanisms contributing to the exacerbated epileptiform activity in hippocampal slices expressing a C-terminal truncated GABAB2 receptor subunit. Epilepsy Research, 2005, 65, 41-51. | 0.8 | 9 |
| 140 | Synaptic transmission and synchronous activity is disrupted in hippocampal slices taken from aged TAS10 mice. Hippocampus, 2005, 15, 110-117. | 0.9 | 34 |
| 141 | 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 |
| 142 | Kainate Receptors and Mossy Fiber LTP. NeuroToxicology, 2005, 26, 769-777. | 1.4 | 36 |
| 143 | Hippocalcin Functions as a Calcium Sensor in Hippocampal LTD. Neuron, 2005, 47, 487-494. | 3.8 | 120 |
| 144 | The regulation of hippocampal LTP by the molecular switch, a form of metaplasticity, requires mGlu5 receptors. Neuropharmacology, 2005, 49, 13-25. | 2.0 | 73 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Synthesis and Pharmacology of Willardiine Derivatives Acting as Antagonists of Kainate Receptors. Journal of Medicinal Chemistry, 2005, 48, 7867-7881. | 2.9 | 51 |
| 146 | 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 |
| 147 | Regulation of Synaptic Strength and AMPA Receptor Subunit Composition by PICK1. Journal of Neuroscience, 2004, 24, 5381-5390. | 1.7 | 160 |
| 148 | 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 |
| 149 | Multiple, Developmentally Regulated Expression Mechanisms of Long-Term Potentiation at CA1 Synapses. Journal of Neuroscience, 2004, 24, 4903-4911. | 1.7 | 66 |
| 150 | Receptor trafficking and synaptic plasticity. Nature Reviews Neuroscience, 2004, 5, 952-962. | 4.9 | 886 |
| 151 | Interactions between NMDA receptors and mGlu5 receptors expressed in HEK293 cells. British Journal of Pharmacology, 2004, 142, 991-1001. | 2.7 | 44 |
| 152 | The GABAB2 subunit is critical for the trafficking and function of native GABAB receptors. Biochemical Pharmacology, 2004, 68, 1655-1666. | 2.0 | 41 |
| 153 | Endocannabinoids. Neuron, 2004, 43, 762-764. | 3.8 | 3 |
| 154 | Characterisation of UBP296: a novel, potent and selective kainate receptor antagonist. Neuropharmacology, 2004, 47, 46-64. | 2.0 | 92 |
| 155 | Characterisation of the effects of ATPA, a GLUK5 kainate receptor agonist, on GABAergic synaptic transmission in the CA1 region of rat hippocampal slices. Neuropharmacology, 2004, 47, 363-372. | 2.0 | 22 |
| 156 | Bi-directional modulation of AMPA receptor unitary conductance by synaptic activity. BMC Neuroscience, 2004, 5, 44. | 0.8 | 56 |
| 157 | Delineation of the Physiological Role of Kainate Receptors by Use of Subtype Selective Ligands. , 2004, , 27-46. | | 1 |
| 158 | Hippocampal synaptic plasticity in mice carrying the rd mutation in the gene encoding cGMP phosphodiesterase type 6 (PDE6). Brain Research, 2003, 967, 144-151. | 1.1 | 17 |
| 159 | Mechanisms contributing to the exacerbated epileptiform activity in hippocampal slices of GABAB1 receptor subunit knockout mice. Epilepsy Research, 2003, 57, 121-136. | 0.8 | 27 |
| 160 | Activation of mGlu receptors induces LTD without affecting postsynaptic sensitivity of CA1 neurons in rat hippocampal slices. Journal of Physiology, 2003, 546, 455-460. | 1.3 | 46 |
| 161 | Parallel kinase cascades are involved in the induction of LTP at hippocampal CA1 synapses. Neuropharmacology, 2003, 45, 828-836. | 2.0 | 49 |
| 162 | Functional roles of protein interactions with AMPA and kainate receptors. Neuroscience Research, 2003, 47, 3-15. | 1.0 | 43 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | 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 |
| 164 | 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 |
| 165 | Introduction. Philosophical Transactions of the Royal Society B: Biological Sciences, 2003, 358, 607-611. | 1.8 | 91 |
| 166 | GluR2 protein-protein interactions and the regulation of AMPA receptors during synaptic plasticity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2003, 358, 715-720. | 1.8 | 23 |
| 167 | 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 |
| 168 | The induction of N -methyl-D-aspartate receptor-dependent long-term potentiation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2003, 358, 635-641. | 1.8 | 37 |
| 169 | Characterisation of the effects of ATPA, a GLUK5 receptor selective agonist, on excitatory synaptic transmission in area CA1 of rat hippocampal slices. Neuropharmacology, 2002, 42, 889-902. | 2.0 | 42 |
| 170 | Group I mGluRs modulate the pattern of non-synaptic epileptiform activity in the hippocampus. Neuropharmacology, 2002, 43, 141-146. | 2.0 | 27 |
| 171 | Tyrosine dephosphorylation underlies DHPG-induced LTD. Neuropharmacology, 2002, 43, 175-180. | 2.0 | 49 |
| 172 | A Presynaptic Kainate Receptor Is Involved in Regulating the Dynamic Properties of Thalamocortical Synapses during Development. Neuron, 2002, 34, 635-646. | 3.8 | 74 |
| 173 | Impairment in hippocampal long-term potentiation in mice under-expressing the Alzheimer's disease related gene presenilin-1. Neuroscience Letters, 2002, 319, 37-40. | 1.0 | 22 |
| 174 | Altered Short-Term Synaptic Plasticity in Mice Lacking the Metabotropic Glutamate Receptor mGlu7. Scientific World Journal, The, 2002, 2, 730-737. | 0.8 | 55 |
| 175 | Calcium stores and synaptic plasticity. Cell Calcium, 2002, 32, 405-411. | 1.1 | 72 |
| 176 | Antagonists of GLUK5-containing kainate receptors prevent pilocarpine-induced limbic seizures. Nature Neuroscience, 2002, 5, 796-804. | 7.1 | 143 |
| 177 | Phosphatidylinositol 3 kinase regulates synapse specificity of hippocampal long-term depression. Nature Neuroscience, 2002, 5, 835-836. | 7.1 | 57 |
| 178 | GABAB Receptors Couple Directly to the Transcription Factor ATF4. Molecular and Cellular Neurosciences, 2001, 17, 637-645. | 1.0 | 82 |
| 179 | A Critical Role of a Facilitatory Presynaptic Kainate Receptor in Mossy Fiber LTP. Neuron, 2001, 32, 697-709. | 3.8 | 187 |
| 180 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | An electrophysiological characterisation of long-term potentiation in cultured dissociated hippocampal neurones. Neuropharmacology, 2001, 41, 693-699. | 2.0 | 38 |
| 182 | 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 |
| 183 | Increased Seizure Susceptibility in Mice Lacking Metabotropic Glutamate Receptor 7. Journal of Neuroscience, 2001, 21, 8734-8745. | 1.7 | 183 |
| 184 | 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 |
| 185 | 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 |
| 186 | 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 |
| 187 | Mathematical modelling of nonâ€stationary fluctuation analysis for studying channel properties of synaptic AMPA receptors. Journal of Physiology, 2001, 537, 407-420. | 1.3 | 37 |
| 188 | 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 |
| 189 | Synaptic Plasticity in the Hippocampal Slice Preparation. Current Protocols in Neuroscience, 2001, 16, Unit 6.13. | 2.6 | 11 |
| 190 | Modulation of synaptic transmission in the rat ventral septal area by the pharmacological activation of metabotropic glutamate receptors. European Journal of Neuroscience, 2000, 12, 1843-1847. | 1.2 | 9 |
| 191 | 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 |
| 192 | Reduced long-term potentiation in hippocampal slices prepared using sucrose-based artificial cerebrospinal fluid. Journal of Neuroscience Methods, 2000, 100, 117-122. | 1.3 | 34 |
| 193 | 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 |
| 194 | reply: Kainate receptors and synaptic plasticity. Nature, 2000, 406, 957-957. | 13.7 | 6 |
| 195 | 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 |
| 196 | Role of Ca<sup>2+</sup>Stores in Metabotropicl-Glutamate Receptor-Mediated Supralinear Ca<sup>2+</sup>Signaling in Rat Hippocampal Neurons. Journal of Neuroscience, 2000, 20, 8628-8636. | 1.7 | 83 |
| 197 | Similar levels of long-term potentiation in amyloid precursor protein -null and wild-type mice in the CA1 region of picrotoxin treated slices. Neuroscience Letters, 2000, 288, 9-12. | 1.0 | 42 |
| 198 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Kainate receptors are involved in synaptic plasticity. Nature, 1999, 402, 297-301. | 13.7 | 297 |
| 200 | Antagonist activity of Î±-substituted 4-carboxyphenylglycine analogues at group I metabotropic glutamate receptors expressed in CHO cells. British Journal of Pharmacology, 1999, 126, 205-210. | 2.7 | 28 |
| 201 | Expression of early hippocampal CA1 LTP does not lead to changes in AMPA-EPSC kinetics or sensitivity to cyclothiazide. Pflugers Archiv European Journal of Physiology, 1999, 437, 191-196. | 1.3 | 14 |
| 202 | Roles of metabotropic glutamate receptors in LTP and LTD in. Current Opinion in Neurobiology, 1999, 9, 299-304. | 2.0 | 178 |
| 203 | Regulation of depolarizing GABAA receptor-mediated synaptic potentials by synaptic activation of GABAB autoreceptors in the rat hippocampus. Neuropharmacology, 1999, 38, 1723-1732. | 2.0 | 31 |
| 204 | Surface Expression of AMPA Receptors in Hippocampal Neurons Is Regulated by an NSF-Dependent Mechanism. Neuron, 1999, 23, 365-376. | 3.8 | 311 |
| 205 | Hippocampal LTD Expression Involves a Pool of AMPARs Regulated by the NSFâ€“GluR2 Interaction. Neuron, 1999, 24, 389-399. | 3.8 | 298 |
| 206 | Synaptic depression induced by pharmacological activation of metabotropic glutamate receptors in the perirhinal cortex in vitro. Neuroscience, 1999, 93, 977-984. | 1.1 | 31 |
| 207 | Mechanisms contributing to the deficits in hippocampal synaptic plasticity in mice lacking amyloid precursor protein. Neuropharmacology, 1999, 38, 349-359. | 2.0 | 233 |
| 208 | A CaMKII inhibitor, KN-62, facilitates DHPG-induced LTD in the CA1 region of the hippocampus. Neuropharmacology, 1999, 38, 605-608. | 2.0 | 34 |
| 209 | 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 |
| 210 | 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 |
| 211 | Rapid internalization and surface expression of a functional, fluorescently tagged G-protein-coupled glutamate receptor. Biochemical Journal, 1999, 341, 415-422. | 1.7 | 40 |
| 212 | Evidence that a novel metabotropic glutamate receptor mediates the induction of long-term potentiation at CAI synapses in the hippocampus. Biochemical Society Transactions, 1999, 27, 170-174. | 1.6 | 8 |
| 213 | Rapid internalization and surface expression of a functional, fluorescently tagged G-protein-coupled glutamate receptor. Biochemical Journal, 1999, 341, 415. | 1.7 | 17 |
| 214 | Modulation of AMPA receptor unitary conductance by synaptic activity. Nature, 1998, 393, 793-797. | 13.7 | 470 |
| 215 | A new intrathalamic pathway linking modality-related nuclei in the dorsal thalamus. Nature Neuroscience, 1998, 1, 389-394. | 7.1 | 122 |
| 216 | A characterization of muscarinic receptor-mediated intracellular Ca2+mobilization in cultured rat hippocampal neurones. Journal of Physiology, 1998, 511, 747-759. | 1.3 | 65 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Ca2+ and synaptic plasticity. Cell Calcium, 1998, 24, 377-385. | 1.1 | 54 |
| 218 | NSF Binding to GluR2 Regulates Synaptic Transmission. Neuron, 1998, 21, 87-97. | 3.8 | 539 |
| 219 | An investigation of the expression mechanism of LTP of AMPA receptor-mediated synaptic transmission at hippocampal CA1 synapses using failures analysis and dendritic recordings. Neuropharmacology, 1998, 37, 1399-1410. | 2.0 | 29 |
| 220 | 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 |
| 221 | 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 |
| 222 | 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 |
| 223 | GFP Fusion proteins and AMPA receptor trafficking. Biochemical Society Transactions, 1997, 25, 540S-540S. | 1.6 | 4 |
| 224 | (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 |
| 225 | 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 |
| 226 | 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 |
| 227 | A hippocampal GluR5 kainate receptor regulating inhibitory synaptic transmission. Nature, 1997, 389, 599-603. | 13.7 | 401 |
| 228 | The synaptic activation of kainate receptors. Nature, 1997, 388, 179-182. | 13.7 | 382 |
| 229 | 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 |
| 230 | 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 |
| 231 | Effects of memantine on recombinant rat NMDA receptors expressed in HEK 293 cells. British Journal of Pharmacology, 1996, 119, 195-204. | 2.7 | 90 |
| 232 | NMDA receptor dependence of mGluâ€mediated depression of synaptic transmission in the CA1 region of the rat hippocampus. British Journal of Pharmacology, 1996, 119, 1239-1247. | 2.7 | 25 |
| 233 | Interactions of 2,3â€benzodiazepines and cydothiazide at AMPA receptors: patch clamp recordings in cultured neurones and area CA1 in hippocampal slices. British Journal of Pharmacology, 1996, 117, 1209-1221. | 2.7 | 47 |
| 234 | Activation of group I mG1uRs potentiates NMDA responses in rat hippocampal slices. Neuroscience Letters, 1996, 203, 211-213. | 1.0 | 177 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | 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 |
| 236 | Ca2+stores and hippocampal synaptic plasticity. Seminars in Neuroscience, 1996, 8, 301-309. | 2.3 | 19 |
| 237 | Regulation of glutamate release by presynaptic kainate receptors in the hippocampus. Nature, 1996, 379, 78-81. | 13.7 | 373 |
| 238 | Calcium transients in voltage-clamped dendrites of hippocampal neurons evoked by different patterns of synaptic activity. Biochemical Society Transactions, 1995, 23, 653-655. | 1.6 | 2 |
| 239 | The brain slice preparation: a tribute to the pioneer Henry McIlwain. Journal of Neuroscience Methods, 1995, 59, 5-9. | 1.3 | 77 |
| 240 | 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 |
| 241 | Antagonism of the synaptic depressant actions of l-AP4 in the lateral perforant path by MAP4. Neuropharmacology, 1995, 34, 239-241. | 2.0 | 54 |
| 242 | 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 |
| 243 | 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 |
| 244 | Pharmacology of postsynaptic metabotropic glutamate receptors in rat hippocampal CA1 pyramidal neurones. British Journal of Pharmacology, 1995, 116, 1859-1869. | 2.7 | 93 |
| 245 | Whole-Cell Patch Recording with Simultaneous Measurement of Intracellular Calcium Concentration in Mammalian Brain Slices in Vitro. Methods in Neurosciences, 1994, 19, 340-358. | 0.5 | 4 |
| 246 | An investigation of depotentiation of longterm potentiation in the CA1 region of the hippocampus. Experimental Brain Research, 1994, 100, 437-443. | 0.7 | 186 |
| 247 | 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 |
| 248 | A molecular switch activated by metabotropic glutamate receptors regulates induction of long-term potentiation. Nature, 1994, 368, 740-743. | 13.7 | 477 |
| 249 | A question of reliability. Nature, 1994, 371, 652-653. | 13.7 | 24 |
| 250 | Motor deficit and impairment of synaptic plasticity in mice lacking mGluR1. Nature, 1994, 372, 237-243. | 13.7 | 755 |
| 251 | The Nitric Oxide - Cyclic GMP Pathway and Synaptic Depression in Rat Hippocampal Slices. European Journal of Neuroscience, 1994, 6, 1528-1535. | 1.2 | 131 |
| 252 | Activation of the NO-cGMP signalling pathway depresses hippocampal synaptic transmission through an adenosine receptor-dependent mechanism. Neuropharmacology, 1994, 33, 1511-1513. | 2.0 | 44 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | In vitro translation and membrane topology of rat recombinant mGluR 1Î±. Neuropharmacology, 1994, 33, 1065-1070. | 2.0 | 15 |
| 254 | Phenylglycine derivatives as antagonists of metabotropic glutamate receptors. Trends in Pharmacological Sciences, 1994, 15, 333-342. | 4.0 | 288 |
| 255 | Stereoselective antagonism of the metabotropic glutamate receptor mGluR1Î± by Î±-methyl-4-carboxyphenylglycine. Biochemical Society Transactions, 1994, 22, 138S-138S. | 1.6 | 0 |
| 256 | Induction of LTP in the hippocampus needs synaptic activation of glutamate metabotropic receptors. Nature, 1993, 363, 347-350. | 13.7 | 716 |
| 257 | Expanding the potential. Nature, 1993, 364, 104-105. | 13.7 | 7 |
| 258 | A synaptic model of memory: long-term potentiation in the hippocampus. Nature, 1993, 361, 31-39. | 13.7 | 10,699 |
| 259 | Mechanisms involved in hippocampal LTP: implications for retrograde messengers. Seminars in Neuroscience, 1993, 5, 189-195. | 2.3 | 5 |
| 260 | Metabotropic glutamate receptors and calcium signalling in dendrites of hippocampal CA1 neurones. Neuropharmacology, 1993, 32, 1229-1237. | 2.0 | 45 |
| 261 | Antagonism of baclofen-induced depression of whole-cell synaptic currents in spinal dorsal horn neurones by the potent GABAB antagonist CGP55845. Neuropharmacology, 1993, 32, 1437-1440. | 2.0 | 34 |
| 262 | CGP 55845A: A potent antagonist of GABAb receptors in the CA1 region of rat hippocampus. Neuropharmacology, 1993, 32, 1071-1073. | 2.0 | 103 |
| 263 | 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 |
| 264 | 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 |
| 265 | 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 |
| 266 | Carbachol can potentiate responses in the rat hippocampus by a staurosporine and thapsigargin-insensitive mechanism. Neuroscience Letters, 1993, 162, 165-168. | 1.0 | 35 |
| 267 | The physiological regulation of synaptic inhibition by GABAB autoreceptors in rat hippocampus.. Journal of Physiology, 1993, 472, 245-265. | 1.3 | 155 |
| 268 | 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 |
| 269 | 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 |
| 270 | Interactions between Ca2+ mobilizing mechanisms in cultured rat cerebellar granule cells.. Journal of Physiology, 1992, 456, 667-680. | 1.3 | 120 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | Thapsigargin blocks the induction of long-term potentiation in rat hippocampal slices. Neuroscience Letters, 1992, 139, 197-200. | 1.0 | 148 |
| 272 | Synaptic plasticity: long-term potentiation in the hippocampus. Current Opinion in Neurobiology, 1992, 2, 328-335. | 2.0 | 30 |
| 273 | Activation of glutamate metabotropic receptors induces long-term potentiation. European Journal of Pharmacology, 1992, 214, 297-298. | 1.7 | 76 |
| 274 | NMDA Receptor-dependent Transient Homo- and Heterosynaptic Depression in Picrotoxin-treated Hippocampal Slices. European Journal of Neuroscience, 1992, 4, 485-490. | 1.2 | 31 |
| 275 | Synaptic plasticity: long-term potentiation in the hippocampus. Current Biology, 1992, 2, 292. | 1.8 | 2 |
| 276 | 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 |
| 277 | Amino ACID Receptor-Mediated Synaptic Currents in the CA1 Region of the Hippocampus. , 1992, 3, 63-81. | | 4 |
| 278 | Electrogenic uptake contributes a major component of the depolarizing action of <scp>l</scp>â€glutamate in rat hippocampal slices. British Journal of Pharmacology, 1991, 102, 355-362. | 2.7 | 22 |
| 279 | Involvement of excitatory amino acid receptors in long-term potentiation in the Schaffer collateralâ€“commissural pathway of rat hippocampal slices. Canadian Journal of Physiology and Pharmacology, 1991, 69, 1084-1090. | 0.7 | 23 |
| 280 | Simultaneous Ca2+ imaging and electrophysiological analysis demonstrate source of Ca2+ for EAA receptors. Trends in Pharmacological Sciences, 1991, 12, 169-170. | 4.0 | 2 |
| 281 | Ammonium ions mobilize calcium from an internal pool which is insensitive to TRH and ionomycin in bovine anterior pituitary cells. Cell Calcium, 1991, 12, 301-312. | 1.1 | 35 |
| 282 | Long-term potentiation of NMDA receptor-mediated synaptic transmission in the hippocampus. Nature, 1991, 349, 156-158. | 13.7 | 357 |
| 283 | GABAB autoreceptors regulate the induction of LTP. Nature, 1991, 349, 609-611. | 13.7 | 569 |
| 284 | From Excitatory Amino Acid Receptors to Long-Term Potentiation: An Insight into the Role of Ca2+. , 1991, , 43-53. | | 1 |
| 285 | Characterization of synaptic components in rat hippocampal slices using whole cell patch clamp techniques. Biochemical Society Transactions, 1990, 18, 430-431. | 1.6 | 2 |
| 286 | Quinoxalinediones as Excitatory Amino Acid Antagonists in The Vertebrate Central Nervous System. International Review of Neurobiology, 1990, 32, 281-303. | 0.9 | 15 |
| 287 | 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 |
| 288 | Pairedâ€pulse depression of monosynaptic GABAâ€mediated inhibitory postsynaptic responses in rat hippocampus.. Journal of Physiology, 1990, 424, 513-531. | 1.3 | 637 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | 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 |
| 290 | Excitatory amino acid receptors and synaptic plasticity. Trends in Pharmacological Sciences, 1990, 11, 290-296. | 4.0 | 835 |
| 291 | Les agents provocateurs: A series on the pharmacology of excitatory amino acids. Trends in Pharmacological Sciences, 1990, 11, 22-24. | 4.0 | 28 |
| 292 | Whole-cell patch-clamp recordings of an NMDA receptor-mediated synaptic current in rat hippocampal slices. Neuroscience Letters, 1990, 114, 191-196. | 1.0 | 33 |
| 293 | 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 |
| 294 | Temporally distinct pre- and post-synaptic mechanisms maintain long-term potentiation. Nature, 1989, 338, 500-503. | 13.7 | 452 |
| 295 | Learning by handshake?. Nature, 1989, 339, 588-588. | 13.7 | 0 |
| 296 | Low-frequency activation of the NMDA receptor system can prevent the induction of LTP. Neuroscience Letters, 1989, 105, 205-210. | 1.0 | 143 |
| 297 | 6â€Cyanoâ€7â€nitroquinoxalineâ€2,3â€dione as an excitatory amino acid antagonist in area CA1 of rat hippocampus. British Journal of Pharmacology, 1989, 97, 71-76. | 2.7 | 41 |
| 298 | A quantitative study of the actions of excitatory amino acids and antagonists in rat hippocampal slices. British Journal of Pharmacology, 1988, 95, 291-299. | 2.7 | 42 |
| 299 | 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 |
| 300 | 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 |
| 301 | Voltageâ€clamp analysis of somatic gammaâ€aminobutyric acid responses in adult rat hippocampal CA1 neurones in vitro.. Journal of Physiology, 1987, 384, 27-37. | 1.3 | 24 |
| 302 | 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 |
| 303 | 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 |
| 304 | NMDA receptors - their role in long-term potentiation. Trends in Neurosciences, 1987, 10, 288-293. | 4.2 | 1,139 |
| 305 | Characterization of an N-methyl-d-aspartate receptor component of synaptic transmission in rat hippocampal slices. Neuroscience, 1987, 22, 1-8. | 1.1 | 82 |
| 306 | The role of NMDA receptors in learning and memory. Nature, 1987, 330, 604-605. | 13.7 | 389 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | Frequency-dependent involvement of NMDA receptors in the hippocampus: a novel synaptic mechanism. Nature, 1986, 322, 265-268. | 13.7 | 404 |
| 308 | 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 |
| 309 | A selective N-methyl-d-aspartate antagonist depresses epileptiform activity in rat hippocampal slices. Neuroscience Letters, 1985, 61, 255-260. | 1.0 | 206 |
| 310 | 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 |
| 311 | Long term potentiation in the hippocampus: mechanisms of initiation and modulation by neurotransmitters. Trends in Pharmacological Sciences, 1985, 6, 407-411. | 4.0 | 163 |
| 312 | Effects of folic and kainic acids on synaptic responses of hippocampal neurones. Neuroscience, 1984, 11, 111-124. | 1.1 | 35 |
| 313 | The action of some analogues of the excitatory amino acids in the dentate gyrus of the rat. Canadian Journal of Physiology and Pharmacology, 1984, 62, 424-429. | 0.7 | 25 |
| 314 | Inhibitory postâ€synaptic currents in rat hippocampal CA1 neurones.. Journal of Physiology, 1984, 356, 551-564. | 1.3 | 141 |
| 315 | 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 |
| 316 | The antagonism of amino acidâ€induced excitations of rat hippocampal CA1 neurones in vitro.. Journal of Physiology, 1983, 334, 19-31. | 1.3 | 340 |
| 317 | Actions of substance P and opiates in the rat substantia nigra. Neuropharmacology, 1982, 21, 715-719. | 2.0 | 43 |
| 318 | The in vitro inhibition of GABA release by tetanus toxin. Neuropharmacology, 1982, 21, 851-855. | 2.0 | 28 |
| 319 | REVERSIBLE EFFECTS OF TETANUS TOXIN ON STRIATALâ€EVOKED RESPONSES AND [<sup>3</sup>H]â€Î³â€AMINOBUTYRIC ACID RELEASE IN THE RAT SUBSTANTIA NIGRA. British Journal of Pharmacology, 1982, 76, 403-411. | 2.7 | 7 |
| 320 | 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 |
| 321 | Electrophysiological evidence for the existence of crossed nigrostriatal fibers. Experientia, 1982, 38, 812-813. | 1.2 | 10 |
| 322 | Intracellular recorded synaptic antagonism in the rat dentate gyrus. Nature, 1982, 300, 450-452. | 13.7 | 45 |
| 323 | 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 |
| 324 | The effect of kainic acid on excitatory synaptic activity in the rat hippocampal slice preparation. Neuroscience Letters, 1981, 27, 31-36. | 1.0 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 325 | In Vitro Effect of Tetanus Toxin on GAB A Release from Rat Hippocampal Slices. Journal of Neurochemistry, 1981, 37, 1039-1041. | 2.1 | 50 |
| 326 | Antidromic latency variations of nigral compacta neurones. Experientia, 1980, 36, 970-971. | 1.2 | 26 |
| 327 | 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 |
| 328 | Rapid behavioural and biochemical effects of tetanus toxin microinjected into the substantia nigra: A dual role for GABA?. Neuroscience Letters, 1979, 11, 205-208. | 1.0 | 20 |
| 329 | An evaluation of d-Î±-aminoadipate and d-(and dl-)Î±-aminosuberate as selective antagonists of excitatory amino acids in the substantia nigra and mesencephalic reticular formation of the rat. Neuropharmacology, 1979, 18, 193-199. | 2.0 | 44 |
| 330 | CHARACTERIZATION OF A CALCIUM-ACTIVATED CYTIDINE TRIPHOSPHATE PHOSPHOHYDROLASE PRESENT IN DORSAL SPINAL NERVE ROOTS. Journal of Neurochemistry, 1978, 31, 681-684. | 2.1 | 2 |
| 331 | Specific Role for GSK3Î± in Limiting Long-Term Potentiation in CA1 Pyramidal Neurons of Adult Mouse Hippocampus. Frontiers in Molecular Neuroscience, 0, 15, . | 1.4 | 2 |