Rolf Sprengel

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Heteromeric NMDA Receptors: Molecular and Functional Distinction of Subtypes. Science, 1992, 256, 1217-1221.	6.0	2,425
2	RNA editing in brain controls a determinant of ion flow in glutamate-gated channels. Cell, 1991, 67, 11-19.	13.5	1,422
3	Point mutation in an AMPA receptor gene rescues lethality in mice deficient in the RNA-editing enzyme ADAR2. Nature, 2000, 406, 78-81.	13.7	884
4	Encoding of conditioned fear in central amygdala inhibitory circuits. Nature, 2010, 468, 277-282.	13.7	813
5	Importance of AMPA Receptors for Hippocampal Synaptic Plasticity But Not for Spatial Learning. Science, 1999, 284, 1805-1811.	6.0	747
6	Subunit Composition of Synaptic AMPA Receptors Revealed by a Single-Cell Genetic Approach. Neuron, 2009, 62, 254-268.	3.8	558
7	Early-Onset Epilepsy and Postnatal Lethality Associated with an Editing-Deficient GluR-B Allele in Mice. Science, 1995, 270, 1677-1680.	6.0	553
8	Hippocampal synaptic plasticity, spatial memory and anxiety. Nature Reviews Neuroscience, 2014, 15, 181-192.	4.9	533
9	Mutations in the SHANK2 synaptic scaffolding gene in autism spectrum disorder and mental retardation. Nature Genetics, 2010, 42, 489-491.	9.4	491
10	Importance of the Intracellular Domain of NR2 Subunits for NMDA Receptor Function In Vivo. Cell, 1998, 92, 279-289.	13.5	419
11	Codon-improved Cre recombinase (iCre) expression in the mouse. Genesis, 2002, 32, 19-26.	0.8	350
12	A New Population of Parvocellular Oxytocin Neurons Controlling Magnocellular Neuron Activity and Inflammatory Pain Processing. Neuron, 2016, 89, 1291-1304.	3.8	314
13	Hippocampal NMDA receptors and anxiety: At the interface between cognition and emotion. European Journal of Pharmacology, 2010, 626, 49-56.	1.7	273
14	CKAMP44: A Brain-Specific Protein Attenuating Short-Term Synaptic Plasticity in the Dentate Gyrus. Science, 2010, 327, 1518-1522.	6.0	231
15	Strain Differences in Stress Responsivity Are Associated with Divergent Amygdala Gene Expression and Glutamate-Mediated Neuronal Excitability. Journal of Neuroscience, 2010, 30, 5357-5367.	1.7	224
16	Synaptic Inhibition in the Olfactory Bulb Accelerates Odor Discrimination in Mice. Neuron, 2010, 65, 399-411.	3.8	223
17	Neurological dysfunctions in mice expressing different levels of the Q/R siteâ€“unedited AMPAR subunit GluRâ€“B. Nature Neuroscience, 1999, 2, 57-64.	7.1	216
18	Bergmann Glial AMPA Receptors Are Required for Fine Motor Coordination. Science, 2012, 337, 749-753.	6.0	191

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19	Impaired spatial working memory but spared spatial reference memory following functional loss of NMDA receptors in the dentate gyrus. European Journal of Neuroscience, 2007, 25, 837-846.	1.2	185
20	Single-spike detection in vitro and in vivo with a genetic Ca2+ sensor. Nature Methods, 2008, 5, 797-804.	9.0	180
21	NMDA Receptor Subunit NR2A Is Required for Rapidly Acquired Spatial Working Memory But Not Incremental Spatial Reference Memory. Journal of Neuroscience, 2008, 28, 3623-3630.	1.7	171
22	Fluorescent-Protein Stabilization and High-Resolution Imaging of Cleared, Intact Mouse Brains. PLoS ONE, 2015, 10, e0124650.	1.1	168
23	Intracellular Domains of NMDA Receptor Subtypes Are Determinants for Long-Term Potentiation Induction. Journal of Neuroscience, 2003, 23, 10791-10799.	1.7	167
24	Mice lacking the AMPA GluR1 receptor exhibit striatal hyperdopaminergia and â€˜schizophrenia-relatedâ€™ behaviors. Molecular Psychiatry, 2008, 13, 631-640.	4.1	164
25	Molecular dissection of hippocampal theta-burst pairing potentiation. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 7740-7745.	3.3	162
26	Faithful Expression of Multiple Proteins via 2A-Peptide Self-Processing: A Versatile and Reliable Method for Manipulating Brain Circuits. Journal of Neuroscience, 2009, 29, 8621-8629.	1.7	156
27	Optical recording of neuronal activity with a genetically-encoded calcium indicator in anesthetized and freely moving mice. Frontiers in Neural Circuits, 2010, 4, 9.	1.4	154
28	Dynamics of Ionic Shifts in Cortical Spreading Depression. Cerebral Cortex, 2015, 25, 4469-4476.	1.6	142
29	Dissecting spatial knowledge from spatial choice by hippocampal NMDA receptor deletion. Nature Neuroscience, 2012, 15, 1153-1159.	7.1	135
30	Split-Cre Complementation Indicates Coincident Activity of Different Genes In Vivo. PLoS ONE, 2009, 4, e4286.	1.1	134
31	AMPA receptor subunit 1 (GluRâ€A) knockout mice model the glutamate hypothesis of depression. FASEB Journal, 2008, 22, 3129-3134.	0.2	133
32	Inherited and de novo SHANK2 variants associated with autism spectrum disorder impair neuronal morphogenesis and physiology. Human Molecular Genetics, 2012, 21, 344-357.	1.4	133
33	A pathway from midcingulate cortex to posterior insula gates nociceptive hypersensitivity. Nature Neuroscience, 2017, 20, 1591-1601.	7.1	125
34	Enhanced long-term and impaired short-term spatial memory in GluA1 AMPA receptor subunit knockout mice: Evidence for a dual-process memory model. Learning and Memory, 2009, 16, 379-386.	0.5	121
35	A Juvenile form of Postsynaptic Hippocampal Longâ€Term Potentiation in Mice Deficient for the AMPA Receptor Subunit GluRâ€A. Journal of Physiology, 2003, 553, 843-856.	1.3	120
36	The Death Receptor CD95 Activates Adult Neural Stem Cells for Working Memory Formation and Brain Repair. Cell Stem Cell, 2009, 5, 178-190.	5.2	120

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37	Astrocytic Ca2+ signaling is reduced during sleep and is involved in the regulation of slow wave sleep. Nature Communications, 2020, 11, 3240.	5.8	120
38	Restoration of spatial working memory by genetic rescue of GluR-Aâ€“deficient mice. Nature Neuroscience, 2005, 8, 270-272.	7.1	119
39	A Pathway-Specific Function for Different AMPA Receptor Subunits in Amygdala Long-Term Potentiation and Fear Conditioning. Journal of Neuroscience, 2007, 27, 10947-10956.	1.7	117
40	IÎºB Kinase/Nuclear Factor ÎºB-Dependent Insulin-Like Growth Factor 2 (Igf2) Expression Regulates Synapse Formation and Spine Maturation via Igf2 Receptor Signaling. Journal of Neuroscience, 2012, 32, 5688-5703.	1.7	116
41	Conditional Restoration of Hippocampal Synaptic Potentiation in GluR-A-Deficient Mice. Science, 2001, 292, 2501-2504.	6.0	111
42	Signalling through AMPA receptors on oligodendrocyte precursors promotes myelination by enhancing oligodendrocyte survival. ELife, 2017, 6, .	2.8	111
43	Chapter 9 The role of the GluR-A (GluR1) AMPA receptor subunit in learning and memory. Progress in Brain Research, 2008, 169, 159-178.	0.9	107
44	Reduced aggression in AMPA-type glutamate receptor GluR-A subunit-deficient mice. Genes, Brain and Behavior, 2004, 3, 253-265.	1.1	102
45	A GFP-equipped bidirectional expression module well suited for monitoring tetracycline-regulated gene expression in mouse. Nucleic Acids Research, 2001, 29, 39e-39.	6.5	100
46	Impaired Regulation of Synaptic Strength in Hippocampal Neurons from GluR1â€Deficient Mice. Journal of Physiology, 2003, 552, 35-45.	1.3	99
47	Deletion of glutamate receptor-A (GluR-A) AMPA receptor subunits impairs one-trial spatial memory.. Behavioral Neuroscience, 2007, 121, 559-569.	0.6	98
48	Evolution of GluN2A/B cytoplasmic domains diversified vertebrate synaptic plasticity and behavior. Nature Neuroscience, 2013, 16, 25-32.	7.1	98
49	The puzzle box as a simple and efficient behavioral test for exploring impairments of general cognition and executive functions in mouse models of schizophrenia. Experimental Neurology, 2011, 227, 42-52.	2.0	97
50	A Fear Memory Engram and Its Plasticity in the Hypothalamic Oxytocin System. Neuron, 2019, 103, 133-146.e8.	3.8	97
51	Morphine-Induced Dependence and Sensitization Are Altered in Mice Deficient in AMPA-Type Glutamate Receptor-A Subunits. Journal of Neuroscience, 2001, 21, 4451-4459.	1.7	94
52	Motor Learning Requires Purkinje Cell Synaptic Potentiation through Activation of AMPA-Receptor Subunit GluA3. Neuron, 2017, 93, 409-424.	3.8	93
53	A Comparison of GluR-A-Deficient and Wild-Type Mice on a Test Battery Assessing Sensorimotor, Affective, and Cognitive Behaviors.. Behavioral Neuroscience, 2004, 118, 643-647.	0.6	92
54	Knockout of NMDA-receptors from parvalbumin interneurons sensitizes to schizophrenia-related deficits induced by MK-801. Translational Psychiatry, 2016, 6, e778-e778.	2.4	91

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55	Heteromeric channels formed by <scp>TRPC</scp>1, <scp>TRPC</scp>4 and <scp>TRPC</scp>5 define hippocampal synaptic transmission and working memory. EMBO Journal, 2017, 36, 2770-2789.	3.5	88
56	The AMPA receptor subunit GluR-B in its Q/R site-unedited form is not essential for brain development and function. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 13777-13782.	3.3	82
57	Silencing and Un-silencing of Tetracycline-Controlled Genes in Neurons. PLoS ONE, 2007, 2, e533.	1.1	80
58	Role of AMPA receptors in synaptic plasticity. Cell and Tissue Research, 2006, 326, 447-455.	1.5	78
59	Does gene deletion of AMPA GluA1 phenocopy features of schizoaffective disorder?. Neurobiology of Disease, 2010, 40, 608-621.	2.1	77
60	A Genetic Switch for Epilepsy in Adult Mice. Journal of Neuroscience, 2004, 24, 10568-10578.	1.7	74
61	Do GluA1 knockout mice exhibit behavioral abnormalities relevant to the negative or cognitive symptoms of schizophrenia and schizoaffective disorder?. Neuropharmacology, 2012, 62, 1263-1272.	2.0	74
62	Forebrain-Specific Glutamate Receptor B Deletion Impairs Spatial Memory But Not Hippocampal Field Long-Term Potentiation. Journal of Neuroscience, 2006, 26, 8428-8440.	1.7	69
63	Dysfunctions in Mice by NMDA Receptor Point Mutations NR1(N598Q) and NR1(N598R). Journal of Neuroscience, 2000, 20, 2558-2566.	1.7	68
64	Induction and expression of GluA1 (GluRâ€A)â€independent LTP in the hippocampus. European Journal of Neuroscience, 2009, 29, 1141-1152.	1.2	68
65	Coexpressed Auxiliary Subunits Exhibit Distinct Modulatory Profiles on AMPA Receptor Function. Neuron, 2014, 83, 601-615.	3.8	66
66	Electroconvulsive Therapy Induces Neurogenesis in Frontal Rat Brain Areas. PLoS ONE, 2013, 8, e69869.	1.1	65
67	Pharmacological blockade of GluN2B-containing NMDA receptors induces antidepressant-like effects lacking psychotomimetic action and neurotoxicity in the perinatal and adult rodent brain. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2013, 45, 28-33.	2.5	64
68	Spatial working memory deficits in GluA1 AMPA receptor subunit knockout mice reflect impaired short-term habituation: Evidence for Wagner's dual-process memory model. Neuropsychologia, 2010, 48, 2303-2315.	0.7	63
69	Roles of the AMPA Receptor Subunit GluA1 but Not GluA2 in Synaptic Potentiation and Activation of ERK in the Anterior Cingulate Cortex. Molecular Pain, 2009, 5, 1744-8069-5-46.	1.0	61
70	Mice with genetically altered glutamate receptors as models of schizophrenia: A comprehensive review. Neuroscience and Biobehavioral Reviews, 2010, 34, 285-294.	2.9	61
71	Tetracycline-Controlled Genetic Switches. , 2007, , 49-72.		61
72	An ER Assembly Line of AMPA-Receptors Controls Excitatory Neurotransmission and Its Plasticity. Neuron, 2019, 104, 680-692.e9.	3.8	59

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73	Stimulation-Evoked Ca²⁺Signals in Astrocytic Processes at Hippocampal CA3â€“CA1 Synapses of Adult Mice Are Modulated by Glutamate and ATP. Journal of Neuroscience, 2015, 35, 3016-3021.	1.7	56
74	Enhanced Odor Discrimination and Impaired Olfactory Memory by Spatially Controlled Switch of AMPA Receptors. PLoS Biology, 2005, 3, e354.	2.6	54
75	Peripheral calcium-permeable AMPA receptors regulate chronic inflammatory pain in mice. Journal of Clinical Investigation, 2011, 121, 1608-1623.	3.9	53
76	Glutamate receptor channel signatures. Trends in Pharmacological Sciences, 2001, 22, 7-10.	4.0	52
77	Divergent innervation of the olfactory bulb by distinct raphe nuclei. Journal of Comparative Neurology, 2015, 523, 805-813.	0.9	51
78	Hippocampalâ€“prefrontal coherence mediates working memory and selective attention at distinct frequency bands and provides a causal link between schizophrenia and its risk gene GRIA1. Translational Psychiatry, 2019, 9, 142.	2.4	51
79	NMDA receptor subunits and associated signaling molecules mediating antidepressant-related effects of NMDA-GluN2B antagonism. Behavioural Brain Research, 2015, 287, 89-95.	1.2	48
80	Distinct Phenotypes of Shank2 Mouse Models Reflect Neuropsychiatric Spectrum Disorders of Human Patients With SHANK2 Variants. Frontiers in Molecular Neuroscience, 2018, 11, 240.	1.4	48
81	Ca2+ Signals in Astrocytes Facilitate Spread of Epileptiform Activity. Cerebral Cortex, 2018, 28, 4036-4048.	1.6	48
82	Suitability of tamoxifen-induced mutagenesis for behavioral phenotyping. Experimental Neurology, 2008, 211, 25-33.	2.0	47
83	Conditional transgenic mouse models: from the basics to genome-wide sets of knockouts and current studies of tissue regeneration. Regenerative Medicine, 2008, 3, 217-235.	0.8	45
84	GluA2-lacking AMPA receptors in hippocampal CA1 cell synapses: evidence from gene-targeted mice. Frontiers in Molecular Neuroscience, 2012, 5, 22.	1.4	45
85	Deletion of the GluA1 AMPA receptor subunit impairs recency-dependent object recognition memory. Learning and Memory, 2011, 18, 181-190.	0.5	44
86	The Role of Hippocampal Glutamate Receptor-A-Dependent Synaptic Plasticity in Conditional Learning: The Importance of Spatiotemporal Discontiguity. Journal of Neuroscience, 2004, 24, 7277-7282.	1.7	43
87	Regulatory functions of limbic Y1 receptors in body weight and anxiety uncovered by conditional knockout and maternal care. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19395-19400.	3.3	43
88	Immunosuppression by <i>N</i>-Methyl-<scp>d</scp>-Aspartate Receptor Antagonists Is Mediated through Inhibition of K_v1.3 and K_{Ca}3.1 Channels in T Cells. Molecular and Cellular Biology, 2014, 34, 820-831.	1.1	40
89	Spatial reference memory in GluR-A-deficient mice using a novel hippocampal-dependent paddling pool escape task. Hippocampus, 2004, 14, 216-223.	0.9	39
90	The Effects of GluA1 Deletion on the Hippocampal Population Code for Position. Journal of Neuroscience, 2012, 32, 8952-8968.	1.7	39

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91	Excessive novelty-induced c-Fos expression and altered neurogenesis in the hippocampus of GluA1 knockout mice. European Journal of Neuroscience, 2011, 33, 161-174.	1.2	38
92	Deletion of the GluA1 AMPA receptor subunit alters the expression of short-term memory. Learning and Memory, 2011, 18, 128-131.	0.5	36
93	Hippocampal NMDA receptors are important for behavioural inhibition but not for encoding associative spatial memories. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130149.	1.8	36
94	Activity Pattern-Dependent Long-Term Potentiation in Neocortex and Hippocampus of GluA1 (GluR-A) Subunit-Deficient Mice. Journal of Neuroscience, 2009, 29, 5587-5596.	1.7	35
95	Neural Basis of Benzodiazepine Reward: Requirement for Î±2 Containing GABAA Receptors in the Nucleus Accumbens. Neuropsychopharmacology, 2014, 39, 1805-1815.	2.8	35
96	Expression, subunit composition, and function of AMPAâ€type glutamate receptors are changed in activated microglia; possible contribution of GluA2 (GluRâ€B)â€deficiency under pathological conditions. Glia, 2013, 61, 881-891.	2.5	34
97	Instruction of haematopoietic lineage choices, evolution of transcriptional landscapes and cancer stem cell hierarchies derived from an <scp>AML</scp> 1â€•<scp>ETO</scp> mouse model. EMBO Molecular Medicine, 2013, 5, 1804-1820.	3.3	33
98	Phenotype of mice with inducible ablation of GluA1 AMPA receptors during late adolescence: Relevance for mental disorders. Hippocampus, 2014, 24, 424-435.	0.9	31
99	Mice with Genetically Modified NMDA and AMPA Receptors. Annals of the New York Academy of Sciences, 1999, 868, 494-501.	1.8	30
100	General Anesthetic Conditions Induce Network Synchrony and Disrupt Sensory Processing in the Cortex. Frontiers in Cellular Neuroscience, 2016, 10, 64.	1.8	30
101	Molecular and cellular dissection of NMDA receptor subtypes as antidepressant targets. Neuroscience and Biobehavioral Reviews, 2018, 84, 352-358.	2.9	29
102	Absent sleep EEG spindle activity in GluA1 (Gria1) knockout mice: relevance to neuropsychiatric disorders. Translational Psychiatry, 2018, 8, 154.	2.4	29
103	Glutamatergic Dysfunction and Synaptic Ultrastructural Alterations in Schizophrenia and Autism Spectrum Disorder: Evidence from Human and Rodent Studies. International Journal of Molecular Sciences, 2021, 22, 59.	1.8	29
104	Sex Hormones Regulate SHANK Expression. Frontiers in Molecular Neuroscience, 2018, 11, 337.	1.4	28
105	Impaired associative fear learning in mice with complete loss or haploinsufficiency of AMPA GluR1 receptors. Frontiers in Behavioral Neuroscience, 2007, 1, 4.	1.0	27
106	Hippocampal GluA1 expression in Gria1 â^’/â^’ mice only partially restores spatial memory performance deficits. Neurobiology of Learning and Memory, 2016, 135, 83-90.	1.0	27
107	Differential c-Fos induction by different NMDA receptor antagonists with antidepressant efficacy: potential clinical implications. International Journal of Neuropsychopharmacology, 2009, 12, 1133.	1.0	26
108	Conditional Inactivation of Neuropeptide Y Y1 Receptors Unravels the Role of Y1 and Y5 Receptors Coexpressing Neurons in Anxiety. Biological Psychiatry, 2014, 76, 840-849.	0.7	26

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109	Voltage-independent GluN2A-type NMDA receptor Ca2+ signaling promotes audiogenic seizures, attentional and cognitive deficits in mice. Communications Biology, 2021, 4, 59.	2.0	26
110	Circuit mechanisms of GluA1-dependent spatial working memory. Hippocampus, 2013, 23, 1359-1366.	0.9	25
111	Deletion of Aquaporin-4 Curtails Extracellular Glutamate Elevation in Cortical Spreading Depression in Awake Mice. Cerebral Cortex, 2017, 27, 24-33.	1.6	25
112	Impaired Outcome-Specific Devaluation of Instrumental Responding in Mice with a Targeted Deletion of the AMPA Receptor Glutamate Receptor 1 Subunit. Journal of Neuroscience, 2005, 25, 2359-2365.	1.7	22
113	Expression patterns of promoters for NPY Y₁ and Y₅ receptors in Y₅RitTA and Y₁RVenus BACâ€transgenic mice. European Journal of Neuroscience, 2007, 26, 155-170.	1.2	19
114	GluA1 and its PDZ-interaction: A role in experience-dependent behavioral plasticity in the forced swim test. Neurobiology of Disease, 2013, 52, 160-167.	2.1	19
115	Adult AMPA GLUA1 Receptor Subunit Loss in 5-HT Neurons Results in a Specific Anxiety-Phenotype with Evidence for Dysregulation of 5-HT Neuronal Activity. Neuropsychopharmacology, 2015, 40, 1471-1484.	2.8	19
116	Different Forms of AMPA Receptor Mediated LTP and Their Correlation to the Spatial Working Memory Formation. Frontiers in Molecular Neuroscience, 2017, 10, 214.	1.4	18
117	Age-Dependent Degeneration of Mature Dentate Gyrus Granule Cells Following NMDA Receptor Ablation. Frontiers in Molecular Neuroscience, 2015, 8, 87.	1.4	17
118	Impact of adolescent GluA1 AMPA receptor ablation in forebrain excitatory neurons on behavioural correlates of mood disorders. European Archives of Psychiatry and Clinical Neuroscience, 2014, 264, 625-629.	1.8	16
119	Targeted deletion of the GluR-1 AMPA receptor in mice dissociates general and outcome-specific influences of appetitive rewards on learning.. Behavioral Neuroscience, 2007, 121, 1192-1202.	0.6	14
120	Inducible and combinatorial gene manipulation in mouse brain. Frontiers in Cellular Neuroscience, 2015, 9, 142.	1.8	13
121	The group II metabotropic glutamate receptor agonist LY354740 and the D2 receptor antagonist haloperidol reduce locomotor hyperactivity but fail to rescue spatial working memory in GluA1 knockout mice. European Journal of Neuroscience, 2017, 45, 912-921.	1.2	13
122	Altered balance of excitatory and inhibitory learning in a genetically modified mouse model of glutamatergic dysfunction relevant to schizophrenia. Scientific Reports, 2017, 7, 1765.	1.6	13
123	Deletion of AMPA receptor GluA1 subunit gene (Gria1) causes circadian rhythm disruption and aberrant responses to environmental cues. Translational Psychiatry, 2021, 11, 588.	2.4	13
124	Flexible, AAV-equipped Genetic Modules for Inducible Control of Gene Expression in Mammalian Brain. Molecular Therapy - Nucleic Acids, 2016, 5, e309.	2.3	12
125	Impaired NMDA receptor function in mouse olfactory bulb neurons by tetracycline-sensitive NR1 (N598R) expression. Molecular Brain Research, 2001, 94, 96-104.	2.5	11
126	Attenuation of Novelty-Induced Hyperactivity of Gria1-/- Mice by Cannabidiol and Hippocampal Inhibitory Chemogenetics. Frontiers in Pharmacology, 2019, 10, 309.	1.6	11

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127	Neuroprotection by rAAV-mediated gene transfer of bone morphogenic protein 7. BMC Neuroscience, 2014, 15, 38.	0.8	10
128	GluA1 AMPAR subunit deletion reduces the hedonic response to sucrose but leaves satiety and conditioned responses intact. Scientific Reports, 2017, 7, 7424.	1.6	10
129	Dissociations within short-term memory in GluA1 AMPA receptor subunit knockout mice. Behavioural Brain Research, 2011, 224, 8-14.	1.2	9
130	Glutamate input to noradrenergic neurons plays an essential role in the development of morphine dependence and psychomotor sensitization. International Journal of Neuropsychopharmacology, 2012, 15, 1457-1471.	1.0	9
131	Tetracycline-controlled transgene activation using the ROSA26-iM2-GFP knock-in mouse strain permits GFP monitoring of DOX-regulated transgene-expression. BMC Developmental Biology, 2010, 10, 95.	2.1	8
132	The effects of neonatal cryoanaesthesia-induced hypothermia on adult emotional behaviour and stress markers in C57BL/6 mice. Behavioural Brain Research, 2014, 270, 300-306.	1.2	8
133	Causal Interrogation of Neuronal Networks and Behavior through Virally Transduced Ivermectin Receptors. Frontiers in Molecular Neuroscience, 2016, 9, 75.	1.4	8
134	Somatic Accumulation of GluA1-AMPA Receptors Leads to Selective Cognitive Impairments in Mice. Frontiers in Molecular Neuroscience, 2018, 11, 199.	1.4	8
135	Imbalanced post- and extrasynaptic SHANK2A functions during development affect social behavior in SHANK2-mediated neuropsychiatric disorders. Molecular Psychiatry, 2021, 26, 6482-6504.	4.1	8
136	Distinct contributions of GluA1-containing AMPA receptors of different hippocampal subfields to salience processing, memory and impulse control. Translational Psychiatry, 2022, 12, 102.	2.4	8
137	Combined subunitâ€specific and unspecific inhibition of NMDA receptors triggers distinct cortical câ€fos expression patterns. Synapse, 2012, 66, 752-754.	0.6	7
138	Comparative Severity Assessment of Genetic, Stress-Based, and Pharmacological Mouse Models of Depression. Frontiers in Behavioral Neuroscience, 0, 16, .	1.0	7
139	Puberty marks major changes in the hippocampal and cortical c-Fos activation pattern induced by NMDA receptor antagonists. Neuropharmacology, 2017, 112, 181-187.	2.0	6
140	Alternative Anesthesia of Neonatal Mice for Global rAAV Delivery in the Brain With Non-detectable Behavioral Interference in Adults. Frontiers in Behavioral Neuroscience, 2020, 14, 115.	1.0	6
141	Ionotropic Glutamate Receptors. , 2013, , 59-80.		4
142	RANGE: Gene Transfer of Reversibly Controlled Polycistronic Genes. Molecular Therapy - Nucleic Acids, 2013, 2, e85.	2.3	3
143	The antidepressant effect of ketamine: Mediated by AMPA receptors?. European Neuropsychopharmacology, 2016, 26, 1692-1693.	0.3	3
144	Facilitated c-Fos Induction in Mice Deficient for the AMPA Receptor-Associated Protein Ckamp44. Cellular and Molecular Neurobiology, 2016, 36, 1215-1218.	1.7	3

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145	Gene Targeted Mice with Conditional Knock-In (-Out) of NMDAR Mutations. Methods in Molecular Biology, 2017, 1677, 201-230.	0.4	3
146	The GluA1 AMPAR subunit is necessary for hedonic responding but not hedonic value in female mice. Physiology and Behavior, 2021, 228, 113206.	1.0	3
147	Dissociating Representations of Time and Number in Reinforcement-Rate Learning by Deletion of the GluA1 AMPA Receptor Subunit in Mice. Psychological Science, 2021, 32, 204-217.	1.8	3
148	Increasing the Excitatory Drive Rescues Excitatory/Inhibitory Imbalance and Mismatch Negativity Deficit Caused by Parvalbumin Specific GluA1 Deletion. Neuroscience, 2022, 496, 190-204.	1.1	3
149	Building Bridges through Science. Neuron, 2017, 96, 730-735.	3.8	2
150	Cre-Activation in ErbB4-Positive Neurons of Floxed Grin1/NMDA Receptor Mice Is Not Associated With Major Behavioral Impairment. Frontiers in Psychiatry, 2021, 12, 750106.	1.3	2
151	Phenotyping Young GluA1 Deficient Mice â€“ A Behavioral Characterization in a Genetic Loss-of-Function Model. Frontiers in Behavioral Neuroscience, 0, 16, .	1.0	2
152	Multiphoton Ca2+ Imaging of Astrocytes with Genetically Encoded Indicators Delivered by a Viral Approach. Neuromethods, 2019, , 251-277.	0.2	1
153	P.2.011 GluA1 and its Postsynaptic density protein 95 (PSD-95)/Discs large/Zonula occludens-1 (PDZ)-interaction: a role in experience-dependent behavioural plasticity in the forced swim test. European Neuropsychopharmacology, 2013, 23, S35-S36.	0.3	0
154	S.6.1 - NEURAL BASIS OF BENZODIAZEPINE REWARD. Behavioural Pharmacology, 2013, 24, e6-e7.	0.8	0
155	A tribute to Peter H. Seeburg (8.21.1944â€“8.22.2016). Neurobiology of Learning and Memory, 2016, 136, A1-A2.	1.0	0
156	Ionotropic Glutamate Receptors. , 2016, , 61-83.		0
157	Peter H. Seeburg (21.8.1944â€“22.8.2016). E-Neuroforum, 2017, 23, .	0.2	0