

Rolf Sprengel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8794005/publications.pdf>

Version: 2024-02-01

157
papers

18,533
citations

16411

64
h-index

12910

131
g-index

171
all docs

171
docs citations

171
times ranked

18137
citing authors

#	ARTICLE	IF	CITATIONS
1	Distinct contributions of GluA1-containing AMPA receptors of different hippocampal subfields to salience processing, memory and impulse control. <i>Translational Psychiatry</i> , 2022, 12, 102.	2.4	8
2	Increasing the Excitatory Drive Rescues Excitatory/Inhibitory Imbalance and Mismatch Negativity Deficit Caused by Parvalbumin Specific GluA1 Deletion. <i>Neuroscience</i> , 2022, 496, 190-204.	1.1	3
3	The GluA1 AMPAR subunit is necessary for hedonic responding but not hedonic value in female mice. <i>Physiology and Behavior</i> , 2021, 228, 113206.	1.0	3
4	Dissociating Representations of Time and Number in Reinforcement-Rate Learning by Deletion of the GluA1 AMPA Receptor Subunit in Mice. <i>Psychological Science</i> , 2021, 32, 204-217.	1.8	3
5	Voltage-independent GluN2A-type NMDA receptor Ca ²⁺ signaling promotes audiogenic seizures, attentional and cognitive deficits in mice. <i>Communications Biology</i> , 2021, 4, 59.	2.0	26
6	Imbalanced post- and extrasynaptic SHANK2A functions during development affect social behavior in SHANK2-mediated neuropsychiatric disorders. <i>Molecular Psychiatry</i> , 2021, 26, 6482-6504.	4.1	8
7	Glutamatergic Dysfunction and Synaptic Ultrastructural Alterations in Schizophrenia and Autism Spectrum Disorder: Evidence from Human and Rodent Studies. <i>International Journal of Molecular Sciences</i> , 2021, 22, 59.	1.8	29
8	Cre-Activation in ErbB4-Positive Neurons of Floxed Grin1/NMDA Receptor Mice Is Not Associated With Major Behavioral Impairment. <i>Frontiers in Psychiatry</i> , 2021, 12, 750106.	1.3	2
9	Deletion of AMPA receptor GluA1 subunit gene (<i>Gria1</i>) causes circadian rhythm disruption and aberrant responses to environmental cues. <i>Translational Psychiatry</i> , 2021, 11, 588.	2.4	13
10	Alternative Anesthesia of Neonatal Mice for Global rAAV Delivery in the Brain With Non-detectable Behavioral Interference in Adults. <i>Frontiers in Behavioral Neuroscience</i> , 2020, 14, 115.	1.0	6
11	Astrocytic Ca ²⁺ signaling is reduced during sleep and is involved in the regulation of slow wave sleep. <i>Nature Communications</i> , 2020, 11, 3240.	5.8	120
12	An ER Assembly Line of AMPA-Receptors Controls Excitatory Neurotransmission and Its Plasticity. <i>Neuron</i> , 2019, 104, 680-692.e9.	3.8	59
13	A Fear Memory Engram and Its Plasticity in the Hypothalamic Oxytocin System. <i>Neuron</i> , 2019, 103, 133-146.e8.	3.8	97
14	Hippocampal "prefrontal coherence mediates working memory and selective attention at distinct frequency bands and provides a causal link between schizophrenia and its risk gene GRIA1. <i>Translational Psychiatry</i> , 2019, 9, 142.	2.4	51
15	Attenuation of Novelty-Induced Hyperactivity of <i>Gria1</i> ^{-/-} Mice by Cannabidiol and Hippocampal Inhibitory Chemogenetics. <i>Frontiers in Pharmacology</i> , 2019, 10, 309.	1.6	11
16	Multiphoton Ca ²⁺ Imaging of Astrocytes with Genetically Encoded Indicators Delivered by a Viral Approach. <i>Neuromethods</i> , 2019, , 251-277.	0.2	1
17	Molecular and cellular dissection of NMDA receptor subtypes as antidepressant targets. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 84, 352-358.	2.9	29
18	Sex Hormones Regulate SHANK Expression. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 337.	1.4	28

#	ARTICLE	IF	CITATIONS
19	Distinct Phenotypes of Shank2 Mouse Models Reflect Neuropsychiatric Spectrum Disorders of Human Patients With SHANK2 Variants. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 240.	1.4	48
20	Ca ²⁺ Signals in Astrocytes Facilitate Spread of Epileptiform Activity. <i>Cerebral Cortex</i> , 2018, 28, 4036-4048.	1.6	48
21	Somatic Accumulation of GluA1-AMPA Receptors Leads to Selective Cognitive Impairments in Mice. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 199.	1.4	8
22	Absent sleep EEG spindle activity in GluA1 (Gria1) knockout mice: relevance to neuropsychiatric disorders. <i>Translational Psychiatry</i> , 2018, 8, 154.	2.4	29
23	Puberty marks major changes in the hippocampal and cortical c-Fos activation pattern induced by NMDA receptor antagonists. <i>Neuropharmacology</i> , 2017, 112, 181-187.	2.0	6
24	Motor Learning Requires Purkinje Cell Synaptic Potentiation through Activation of AMPA-Receptor Subunit GluA3. <i>Neuron</i> , 2017, 93, 409-424.	3.8	93
25	Deletion of Aquaporin-4 Curtails Extracellular Glutamate Elevation in Cortical Spreading Depression in Awake Mice. <i>Cerebral Cortex</i> , 2017, 27, 24-33.	1.6	25
26	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. <i>European Journal of Neuroscience</i> , 2017, 45, 912-921.	1.2	13
27	Peter H. Seeburg (21.8.1944–22.8.2016). <i>E-Neuroforum</i> , 2017, 23, .	0.2	0
28	Altered balance of excitatory and inhibitory learning in a genetically modified mouse model of glutamatergic dysfunction relevant to schizophrenia. <i>Scientific Reports</i> , 2017, 7, 1765.	1.6	13
29	Gene Targeted Mice with Conditional Knock-In (-Out) of NMDAR Mutations. <i>Methods in Molecular Biology</i> , 2017, 1677, 201-230.	0.4	3
30	A pathway from midcingulate cortex to posterior insula gates nociceptive hypersensitivity. <i>Nature Neuroscience</i> , 2017, 20, 1591-1601.	7.1	125
31	GluA1 AMPAR subunit deletion reduces the hedonic response to sucrose but leaves satiety and conditioned responses intact. <i>Scientific Reports</i> , 2017, 7, 7424.	1.6	10
32	Heteromeric channels formed by <sc>TRPC</sc>1, <sc>TRPC</sc>4 and <sc>TRPC</sc>5 define hippocampal synaptic transmission and working memory. <i>EMBO Journal</i> , 2017, 36, 2770-2789.	3.5	88
33	Building Bridges through Science. <i>Neuron</i> , 2017, 96, 730-735.	3.8	2
34	Different Forms of AMPA Receptor Mediated LTP and Their Correlation to the Spatial Working Memory Formation. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 214.	1.4	18
35	Signalling through AMPA receptors on oligodendrocyte precursors promotes myelination by enhancing oligodendrocyte survival. <i>ELife</i> , 2017, 6, .	2.8	111
36	General Anesthetic Conditions Induce Network Synchrony and Disrupt Sensory Processing in the Cortex. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 64.	1.8	30

#	ARTICLE	IF	CITATIONS
37	Causal Interrogation of Neuronal Networks and Behavior through Virally Transduced Ivermectin Receptors. <i>Frontiers in Molecular Neuroscience</i> , 2016, 9, 75.	1.4	8
38	A tribute to Peter H. Seeburg (8.21.1944–8.22.2016). <i>Neurobiology of Learning and Memory</i> , 2016, 136, A1-A2.	1.0	0
39	A New Population of Parvocellular Oxytocin Neurons Controlling Magnocellular Neuron Activity and Inflammatory Pain Processing. <i>Neuron</i> , 2016, 89, 1291-1304.	3.8	314
40	Knockout of NMDA-receptors from parvalbumin interneurons sensitizes to schizophrenia-related deficits induced by MK-801. <i>Translational Psychiatry</i> , 2016, 6, e778-e778.	2.4	91
41	Flexible, AAV-equipped Genetic Modules for Inducible Control of Gene Expression in Mammalian Brain. <i>Molecular Therapy - Nucleic Acids</i> , 2016, 5, e309.	2.3	12
42	The antidepressant effect of ketamine: Mediated by AMPA receptors?. <i>European Neuropsychopharmacology</i> , 2016, 26, 1692-1693.	0.3	3
43	Hippocampal GluA1 expression in <i>Gria1</i> ^{-/-} mice only partially restores spatial memory performance deficits. <i>Neurobiology of Learning and Memory</i> , 2016, 135, 83-90.	1.0	27
44	Ionotropic Glutamate Receptors. , 2016, , 61-83.		0
45	Facilitated c-Fos Induction in Mice Deficient for the AMPA Receptor-Associated Protein Ckmp44. <i>Cellular and Molecular Neurobiology</i> , 2016, 36, 1215-1218.	1.7	3
46	Fluorescent-Protein Stabilization and High-Resolution Imaging of Cleared, Intact Mouse Brains. <i>PLoS ONE</i> , 2015, 10, e0124650.	1.1	168
47	Stimulation-Evoked Ca ²⁺ Signals in Astrocytic Processes at Hippocampal CA3–CA1 Synapses of Adult Mice Are Modulated by Glutamate and ATP. <i>Journal of Neuroscience</i> , 2015, 35, 3016-3021.	1.7	56
48	Divergent innervation of the olfactory bulb by distinct raphe nuclei. <i>Journal of Comparative Neurology</i> , 2015, 523, 805-813.	0.9	51
49	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. <i>Neuropsychopharmacology</i> , 2015, 40, 1471-1484.	2.8	19
50	NMDA receptor subunits and associated signaling molecules mediating antidepressant-related effects of NMDA-GluN2B antagonism. <i>Behavioural Brain Research</i> , 2015, 287, 89-95.	1.2	48
51	Inducible and combinatorial gene manipulation in mouse brain. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 142.	1.8	13
52	Dynamics of Ionic Shifts in Cortical Spreading Depression. <i>Cerebral Cortex</i> , 2015, 25, 4469-4476.	1.6	142
53	Age-Dependent Degeneration of Mature Dentate Gyrus Granule Cells Following NMDA Receptor Ablation. <i>Frontiers in Molecular Neuroscience</i> , 2015, 8, 87.	1.4	17
54	Phenotype of mice with inducible ablation of GluA1 AMPA receptors during late adolescence: Relevance for mental disorders. <i>Hippocampus</i> , 2014, 24, 424-435.	0.9	31

#	ARTICLE	IF	CITATIONS
55	Neural Basis of Benzodiazepine Reward: Requirement for $\hat{\pm}2$ Containing GABAA Receptors in the Nucleus Accumbens. <i>Neuropsychopharmacology</i> , 2014, 39, 1805-1815.	2.8	35
56	Hippocampal synaptic plasticity, spatial memory and anxiety. <i>Nature Reviews Neuroscience</i> , 2014, 15, 181-192.	4.9	533
57	Immunosuppression by <i>N</i> -Methyl-Aspartate Receptor Antagonists Is Mediated through Inhibition of K_v 1.3 and K_{Ca} 3.1 Channels in T Cells. <i>Molecular and Cellular Biology</i> , 2014, 34, 820-831.	1.1	40
58	Coexpressed Auxiliary Subunits Exhibit Distinct Modulatory Profiles on AMPA Receptor Function. <i>Neuron</i> , 2014, 83, 601-615.	3.8	66
59	Impact of adolescent GluA1 AMPA receptor ablation in forebrain excitatory neurons on behavioural correlates of mood disorders. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2014, 264, 625-629.	1.8	16
60	Hippocampal NMDA receptors are important for behavioural inhibition but not for encoding associative spatial memories. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130149.	1.8	36
61	Neuroprotection by rAAV-mediated gene transfer of bone morphogenic protein 7. <i>BMC Neuroscience</i> , 2014, 15, 38.	0.8	10
62	The effects of neonatal cryoanaesthesia-induced hypothermia on adult emotional behaviour and stress markers in C57BL/6 mice. <i>Behavioural Brain Research</i> , 2014, 270, 300-306.	1.2	8
63	Conditional Inactivation of Neuropeptide Y Y1 Receptors Unravels the Role of Y1 and Y5 Receptors Coexpressing Neurons in Anxiety. <i>Biological Psychiatry</i> , 2014, 76, 840-849.	0.7	26
64	Evolution of GluN2A/B cytoplasmic domains diversified vertebrate synaptic plasticity and behavior. <i>Nature Neuroscience</i> , 2013, 16, 25-32.	7.1	98
65	GluA1 and its PDZ-interaction: A role in experience-dependent behavioral plasticity in the forced swim test. <i>Neurobiology of Disease</i> , 2013, 52, 160-167.	2.1	19
66	Pharmacological blockade of GluN2B-containing NMDA receptors induces antidepressant-like effects lacking psychotomimetic action and neurotoxicity in the perinatal and adult rodent brain. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2013, 45, 28-33.	2.5	64
67	Circuit mechanisms of GluA1-dependent spatial working memory. <i>Hippocampus</i> , 2013, 23, 1359-1366.	0.9	25
68	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. <i>European Neuropsychopharmacology</i> , 2013, 23, S35-S36.	0.3	0
69	Expression, subunit composition, and function of AMPA-type glutamate receptors are changed in activated microglia; possible contribution of GluA2 (GluR2) deficiency under pathological conditions. <i>Glia</i> , 2013, 61, 881-891.	2.5	34
70	Ionotropic Glutamate Receptors. , 2013, , 59-80.		4
71	Instruction of haematopoietic lineage choices, evolution of transcriptional landscapes and cancer stem cell hierarchies derived from an AML \rightarrow ETO mouse model. <i>EMBO Molecular Medicine</i> , 2013, 5, 1804-1820.	3.3	33
72	RANGE: Gene Transfer of Reversibly Controlled Polycistronic Genes. <i>Molecular Therapy - Nucleic Acids</i> , 2013, 2, e85.	2.3	3

#	ARTICLE	IF	CITATIONS
73	S.6.1 - NEURAL BASIS OF BENZODIAZEPINE REWARD. <i>Behavioural Pharmacology</i> , 2013, 24, e6-e7.	0.8	0
74	Electroconvulsive Therapy Induces Neurogenesis in Frontal Rat Brain Areas. <i>PLoS ONE</i> , 2013, 8, e69869.	1.1	65
75	Inherited and de novo SHANK2 variants associated with autism spectrum disorder impair neuronal morphogenesis and physiology. <i>Human Molecular Genetics</i> , 2012, 21, 344-357.	1.4	133
76	Î² Kinase/Nuclear Factor Î²-Dependent Insulin-Like Growth Factor 2 (Igf2) Expression Regulates Synapse Formation and Spine Maturation via Igf2 Receptor Signaling. <i>Journal of Neuroscience</i> , 2012, 32, 5688-5703.	1.7	116
77	The Effects of GluA1 Deletion on the Hippocampal Population Code for Position. <i>Journal of Neuroscience</i> , 2012, 32, 8952-8968.	1.7	39
78	Glutamate input to noradrenergic neurons plays an essential role in the development of morphine dependence and psychomotor sensitization. <i>International Journal of Neuropsychopharmacology</i> , 2012, 15, 1457-1471.	1.0	9
79	Do GluA1 knockout mice exhibit behavioral abnormalities relevant to the negative or cognitive symptoms of schizophrenia and schizoaffective disorder?. <i>Neuropharmacology</i> , 2012, 62, 1263-1272.	2.0	74
80	GluA2-lacking AMPA receptors in hippocampal CA1 cell synapses: evidence from gene-targeted mice. <i>Frontiers in Molecular Neuroscience</i> , 2012, 5, 22.	1.4	45
81	Combined subunit-specific and unspecific inhibition of NMDA receptors triggers distinct cortical c-Fos expression patterns. <i>Synapse</i> , 2012, 66, 752-754.	0.6	7
82	Bergmann Glial AMPA Receptors Are Required for Fine Motor Coordination. <i>Science</i> , 2012, 337, 749-753.	6.0	191
83	Dissecting spatial knowledge from spatial choice by hippocampal NMDA receptor deletion. <i>Nature Neuroscience</i> , 2012, 15, 1153-1159.	7.1	135
84	Dissociations within short-term memory in GluA1 AMPA receptor subunit knockout mice. <i>Behavioural Brain Research</i> , 2011, 224, 8-14.	1.2	9
85	The puzzle box as a simple and efficient behavioral test for exploring impairments of general cognition and executive functions in mouse models of schizophrenia. <i>Experimental Neurology</i> , 2011, 227, 42-52.	2.0	97
86	Excessive novelty-induced c-Fos expression and altered neurogenesis in the hippocampus of GluA1 knockout mice. <i>European Journal of Neuroscience</i> , 2011, 33, 161-174.	1.2	38
87	Deletion of the GluA1 AMPA receptor subunit impairs recency-dependent object recognition memory. <i>Learning and Memory</i> , 2011, 18, 181-190.	0.5	44
88	Deletion of the GluA1 AMPA receptor subunit alters the expression of short-term memory. <i>Learning and Memory</i> , 2011, 18, 128-131.	0.5	36
89	Regulatory functions of limbic Y1 receptors in body weight and anxiety uncovered by conditional knockout and maternal care. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19395-19400.	3.3	43
90	Peripheral calcium-permeable AMPA receptors regulate chronic inflammatory pain in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 1608-1623.	3.9	53

#	ARTICLE	IF	CITATIONS
91	Optical recording of neuronal activity with a genetically-encoded calcium indicator in anesthetized and freely moving mice. <i>Frontiers in Neural Circuits</i> , 2010, 4, 9.	1.4	154
92	Mice with genetically altered glutamate receptors as models of schizophrenia: A comprehensive review. <i>Neuroscience and Biobehavioral Reviews</i> , 2010, 34, 285-294.	2.9	61
93	Does gene deletion of AMPA GluA1 phenocopy features of schizoaffective disorder?. <i>Neurobiology of Disease</i> , 2010, 40, 608-621.	2.1	77
94	Spatial working memory deficits in GluA1 AMPA receptor subunit knockout mice reflect impaired short-term habituation: Evidence for Wagner's dual-process memory model. <i>Neuropsychologia</i> , 2010, 48, 2303-2315.	0.7	63
95	Hippocampal NMDA receptors and anxiety: At the interface between cognition and emotion. <i>European Journal of Pharmacology</i> , 2010, 626, 49-56.	1.7	273
96	Tetracycline-controlled transgene activation using the ROSA26-iM2-GFP knock-in mouse strain permits GFP monitoring of DOX-regulated transgene-expression. <i>BMC Developmental Biology</i> , 2010, 10, 95.	2.1	8
97	Encoding of conditioned fear in central amygdala inhibitory circuits. <i>Nature</i> , 2010, 468, 277-282.	13.7	813
98	Mutations in the SHANK2 synaptic scaffolding gene in autism spectrum disorder and mental retardation. <i>Nature Genetics</i> , 2010, 42, 489-491.	9.4	491
99	Strain Differences in Stress Responsivity Are Associated with Divergent Amygdala Gene Expression and Glutamate-Mediated Neuronal Excitability. <i>Journal of Neuroscience</i> , 2010, 30, 5357-5367.	1.7	224
100	Synaptic Inhibition in the Olfactory Bulb Accelerates Odor Discrimination in Mice. <i>Neuron</i> , 2010, 65, 399-411.	3.8	223
101	CKAMP44: A Brain-Specific Protein Attenuating Short-Term Synaptic Plasticity in the Dentate Gyrus. <i>Science</i> , 2010, 327, 1518-1522.	6.0	231
102	Activity Pattern-Dependent Long-Term Potentiation in Neocortex and Hippocampus of GluA1 (GluR-A) Subunit-Deficient Mice. <i>Journal of Neuroscience</i> , 2009, 29, 5587-5596.	1.7	35
103	Enhanced long-term and impaired short-term spatial memory in GluA1 AMPA receptor subunit knockout mice: Evidence for a dual-process memory model. <i>Learning and Memory</i> , 2009, 16, 379-386.	0.5	121
104	Induction and expression of GluA1 (GluR α) α -independent LTP in the hippocampus. <i>European Journal of Neuroscience</i> , 2009, 29, 1141-1152.	1.2	68
105	The Death Receptor CD95 Activates Adult Neural Stem Cells for Working Memory Formation and Brain Repair. <i>Cell Stem Cell</i> , 2009, 5, 178-190.	5.2	120
106	Subunit Composition of Synaptic AMPA Receptors Revealed by a Single-Cell Genetic Approach. <i>Neuron</i> , 2009, 62, 254-268.	3.8	558
107	Faithful Expression of Multiple Proteins via 2A-Peptide Self-Processing: A Versatile and Reliable Method for Manipulating Brain Circuits. <i>Journal of Neuroscience</i> , 2009, 29, 8621-8629.	1.7	156
108	Differential c-Fos induction by different NMDA receptor antagonists with antidepressant efficacy: potential clinical implications. <i>International Journal of Neuropsychopharmacology</i> , 2009, 12, 1133.	1.0	26

#	ARTICLE	IF	CITATIONS
109	Roles of the AMPA Receptor Subunit GluA1 but Not GluA2 in Synaptic Potentiation and Activation of ERK in the Anterior Cingulate Cortex. <i>Molecular Pain</i> , 2009, 5, 1744-8069-5-46.	1.0	61
110	Split-Cre Complementation Indicates Coincident Activity of Different Genes In Vivo. <i>PLoS ONE</i> , 2009, 4, e4286.	1.1	134
111	Conditional transgenic mouse models: from the basics to genome-wide sets of knockouts and current studies of tissue regeneration. <i>Regenerative Medicine</i> , 2008, 3, 217-235.	0.8	45
112	Single-spike detection in vitro and in vivo with a genetic Ca ²⁺ sensor. <i>Nature Methods</i> , 2008, 5, 797-804.	9.0	180
113	Mice lacking the AMPA GluR1 receptor exhibit striatal hyperdopaminergia and "schizophrenia-related" behaviors. <i>Molecular Psychiatry</i> , 2008, 13, 631-640.	4.1	164
114	Suitability of tamoxifen-induced mutagenesis for behavioral phenotyping. <i>Experimental Neurology</i> , 2008, 211, 25-33.	2.0	47
115	Chapter 9 The role of the GluR-A (GluR1) AMPA receptor subunit in learning and memory. <i>Progress in Brain Research</i> , 2008, 169, 159-178.	0.9	107
116	NMDA Receptor Subunit NR2A Is Required for Rapidly Acquired Spatial Working Memory But Not Incremental Spatial Reference Memory. <i>Journal of Neuroscience</i> , 2008, 28, 3623-3630.	1.7	171
117	AMPA receptor subunit 1 (GluR1) knockout mice model the glutamate hypothesis of depression. <i>FASEB Journal</i> , 2008, 22, 3129-3134.	0.2	133
118	A Pathway-Specific Function for Different AMPA Receptor Subunits in Amygdala Long-Term Potentiation and Fear Conditioning. <i>Journal of Neuroscience</i> , 2007, 27, 10947-10956.	1.7	117
119	Targeted deletion of the GluR-1 AMPA receptor in mice dissociates general and outcome-specific influences of appetitive rewards on learning. <i>Behavioral Neuroscience</i> , 2007, 121, 1192-1202.	0.6	14
120	Deletion of glutamate receptor-A (GluR-A) AMPA receptor subunits impairs one-trial spatial memory. <i>Behavioral Neuroscience</i> , 2007, 121, 559-569.	0.6	98
121	Silencing and Un-silencing of Tetracycline-Controlled Genes in Neurons. <i>PLoS ONE</i> , 2007, 2, e533.	1.1	80
122	Impaired associative fear learning in mice with complete loss or haploinsufficiency of AMPA GluR1 receptors. <i>Frontiers in Behavioral Neuroscience</i> , 2007, 1, 4.	1.0	27
123	Impaired spatial working memory but spared spatial reference memory following functional loss of NMDA receptors in the dentate gyrus. <i>European Journal of Neuroscience</i> , 2007, 25, 837-846.	1.2	185
124	Expression patterns of promoters for NPY Y ₁ and Y ₅ receptors in Y ₅ RitTA and Y ₁ R Venus BAC transgenic mice. <i>European Journal of Neuroscience</i> , 2007, 26, 155-170.	1.2	19
125	Tetracycline-Controlled Genetic Switches. , 2007, , 49-72.		61
126	Role of AMPA receptors in synaptic plasticity. <i>Cell and Tissue Research</i> , 2006, 326, 447-455.	1.5	78

#	ARTICLE	IF	CITATIONS
127	Forebrain-Specific Glutamate Receptor B Deletion Impairs Spatial Memory But Not Hippocampal Field Long-Term Potentiation. <i>Journal of Neuroscience</i> , 2006, 26, 8428-8440.	1.7	69
128	Restoration of spatial working memory by genetic rescue of GluR-A-deficient mice. <i>Nature Neuroscience</i> , 2005, 8, 270-272.	7.1	119
129	Enhanced Odor Discrimination and Impaired Olfactory Memory by Spatially Controlled Switch of AMPA Receptors. <i>PLoS Biology</i> , 2005, 3, e354.	2.6	54
130	Impaired Outcome-Specific Devaluation of Instrumental Responding in Mice with a Targeted Deletion of the AMPA Receptor Glutamate Receptor 1 Subunit. <i>Journal of Neuroscience</i> , 2005, 25, 2359-2365.	1.7	22
131	The Role of Hippocampal Glutamate Receptor-A-Dependent Synaptic Plasticity in Conditional Learning: The Importance of Spatiotemporal Discontiguity. <i>Journal of Neuroscience</i> , 2004, 24, 7277-7282.	1.7	43
132	Reduced aggression in AMPA-type glutamate receptor GluR-A subunit-deficient mice. <i>Genes, Brain and Behavior</i> , 2004, 3, 253-265.	1.1	102
133	Spatial reference memory in GluR-A-deficient mice using a novel hippocampal-dependent paddling pool escape task. <i>Hippocampus</i> , 2004, 14, 216-223.	0.9	39
134	A Genetic Switch for Epilepsy in Adult Mice. <i>Journal of Neuroscience</i> , 2004, 24, 10568-10578.	1.7	74
135	A Comparison of GluR-A-Deficient and Wild-Type Mice on a Test Battery Assessing Sensorimotor, Affective, and Cognitive Behaviors.. <i>Behavioral Neuroscience</i> , 2004, 118, 643-647.	0.6	92
136	Impaired Regulation of Synaptic Strength in Hippocampal Neurons from GluR1-deficient Mice. <i>Journal of Physiology</i> , 2003, 552, 35-45.	1.3	99
137	A Juvenile form of Postsynaptic Hippocampal Long-Term Potentiation in Mice Deficient for the AMPA Receptor Subunit GluR-A. <i>Journal of Physiology</i> , 2003, 553, 843-856.	1.3	120
138	Intracellular Domains of NMDA Receptor Subtypes Are Determinants for Long-Term Potentiation Induction. <i>Journal of Neuroscience</i> , 2003, 23, 10791-10799.	1.7	167
139	Molecular dissection of hippocampal theta-burst pairing potentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 7740-7745.	3.3	162
140	Codon-improved Cre recombinase (iCre) expression in the mouse. <i>Genesis</i> , 2002, 32, 19-26.	0.8	350
141	Glutamate receptor channel signatures. <i>Trends in Pharmacological Sciences</i> , 2001, 22, 7-10.	4.0	52
142	Impaired NMDA receptor function in mouse olfactory bulb neurons by tetracycline-sensitive NR1 (N598R) expression. <i>Molecular Brain Research</i> , 2001, 94, 96-104.	2.5	11
143	Morphine-Induced Dependence and Sensitization Are Altered in Mice Deficient in AMPA-Type Glutamate Receptor-A Subunits. <i>Journal of Neuroscience</i> , 2001, 21, 4451-4459.	1.7	94
144	A GFP-equipped bidirectional expression module well suited for monitoring tetracycline-regulated gene expression in mouse. <i>Nucleic Acids Research</i> , 2001, 29, 39e-39.	6.5	100

#	ARTICLE	IF	CITATIONS
145	Conditional Restoration of Hippocampal Synaptic Potentiation in GluR-A-Deficient Mice. <i>Science</i> , 2001, 292, 2501-2504.	6.0	111
146	Point mutation in an AMPA receptor gene rescues lethality in mice deficient in the RNA-editing enzyme ADAR2. <i>Nature</i> , 2000, 406, 78-81.	13.7	884
147	Dysfunctions in Mice by NMDA Receptor Point Mutations NR1(N598Q) and NR1(N598R). <i>Journal of Neuroscience</i> , 2000, 20, 2558-2566.	1.7	68
148	Mice with Genetically Modified NMDA and AMPA Receptors. <i>Annals of the New York Academy of Sciences</i> , 1999, 868, 494-501.	1.8	30
149	Neurological dysfunctions in mice expressing different levels of the Q/R site-unedited AMPAR subunit GluR β . <i>Nature Neuroscience</i> , 1999, 2, 57-64.	7.1	216
150	Importance of AMPA Receptors for Hippocampal Synaptic Plasticity But Not for Spatial Learning. <i>Science</i> , 1999, 284, 1805-1811.	6.0	747
151	Importance of the Intracellular Domain of NR2 Subunits for NMDA Receptor Function In Vivo. <i>Cell</i> , 1998, 92, 279-289.	13.5	419
152	The AMPA receptor subunit GluR-B in its Q/R site-unedited form is not essential for brain development and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 13777-13782.	3.3	82
153	Early-Onset Epilepsy and Postnatal Lethality Associated with an Editing-Deficient GluR-B Allele in Mice. <i>Science</i> , 1995, 270, 1677-1680.	6.0	553
154	Heteromeric NMDA Receptors: Molecular and Functional Distinction of Subtypes. <i>Science</i> , 1992, 256, 1217-1221.	6.0	2,425
155	RNA editing in brain controls a determinant of ion flow in glutamate-gated channels. <i>Cell</i> , 1991, 67, 11-19.	13.5	1,422
156	Phenotyping Young GluA1 Deficient Mice – A Behavioral Characterization in a Genetic Loss-of-Function Model. <i>Frontiers in Behavioral Neuroscience</i> , 0, 16, .	1.0	2
157	Comparative Severity Assessment of Genetic, Stress-Based, and Pharmacological Mouse Models of Depression. <i>Frontiers in Behavioral Neuroscience</i> , 0, 16, .	1.0	7