

Masanobu Kano

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238
papers

20,855
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81
h-index

140
g-index

287
ext. papers

23,030
ext. citations

8.6
avg. IF

6.62
L-index

#	Paper	IF	Citations
238	Endocannabinoid-mediated control of synaptic transmission. <i>Physiological Reviews</i> , 2009 , 89, 309-80	47.9	1039
237	Endogenous cannabinoids mediate retrograde signals from depolarized postsynaptic neurons to presynaptic terminals. <i>Neuron</i> , 2001 , 29, 729-38	13.9	672
236	Near-infrared deep brain stimulation via upconversion nanoparticle-mediated optogenetics. <i>Science</i> , 2018 , 359, 679-684	33.3	564
235	Presynaptic inhibition caused by retrograde signal from metabotropic glutamate to cannabinoid receptors. <i>Neuron</i> , 2001 , 31, 463-75	13.9	458
234	Synaptic excitation produces a long-lasting rebound potentiation of inhibitory synaptic signals in cerebellar Purkinje cells. <i>Nature</i> , 1992 , 356, 601-4	50.4	413
233	Long-lasting depression of parallel fiber-Purkinje cell transmission induced by conjunctive stimulation of parallel fibers and climbing fibers in the cerebellar cortex. <i>Neuroscience Letters</i> , 1982 , 33, 253-8	3.3	407
232	Impaired synapse elimination during cerebellar development in PKC gamma mutant mice. <i>Cell</i> , 1995 , 83, 1223-31	56.2	399
231	Impaired motor coordination correlates with persistent multiple climbing fiber innervation in PKC gamma mutant mice. <i>Cell</i> , 1995 , 83, 1233-42	56.2	384
230	The CB1 cannabinoid receptor is the major cannabinoid receptor at excitatory presynaptic sites in the hippocampus and cerebellum. <i>Journal of Neuroscience</i> , 2006 , 26, 2991-3001	6.6	362
229	mGluR1 in cerebellar Purkinje cells essential for long-term depression, synapse elimination, and motor coordination. <i>Science</i> , 2000 , 288, 1832-5	33.3	354
228	The endocannabinoid 2-arachidonoylglycerol produced by diacylglycerol lipase alpha mediates retrograde suppression of synaptic transmission. <i>Neuron</i> , 2010 , 65, 320-7	13.9	352
227	Motor discoordination and increased susceptibility to cerebellar injury in GLAST mutant mice. <i>European Journal of Neuroscience</i> , 1998 , 10, 976-88	3.5	341
226	Subcellular arrangement of molecules for 2-arachidonoyl-glycerol-mediated retrograde signaling and its physiological contribution to synaptic modulation in the striatum. <i>Journal of Neuroscience</i> , 2007 , 27, 3663-76	6.6	314
225	Quisqualate receptors are specifically involved in cerebellar synaptic plasticity. <i>Nature</i> , 1987 , 325, 276-9	50.4	299
224	Localization of diacylglycerol lipase-alpha around postsynaptic spine suggests close proximity between production site of an endocannabinoid, 2-arachidonoyl-glycerol, and presynaptic cannabinoid CB1 receptor. <i>Journal of Neuroscience</i> , 2006 , 26, 4740-51	6.6	281
223	Targeted patch-clamp recordings and single-cell electroporation of unlabeled neurons in vivo. <i>Nature Methods</i> , 2008 , 5, 61-7	21.6	273
222	Persistent multiple climbing fiber innervation of cerebellar Purkinje cells in mice lacking mGluR1. <i>Neuron</i> , 1997 , 18, 71-9	13.9	269

221	Phospholipase Cbeta serves as a coincidence detector through its Ca ²⁺ dependency for triggering retrograde endocannabinoid signal. <i>Neuron</i> , 2005 , 45, 257-68	13.9	259
220	Long-term depression of parallel fibre synapses following stimulation of climbing fibres. <i>Brain Research</i> , 1985 , 342, 357-60	3.7	252
219	Impaired parallel fiber-->Purkinje cell synapse stabilization during cerebellar development of mutant mice lacking the glutamate receptor delta2 subunit. <i>Journal of Neuroscience</i> , 1997 , 17, 9613-23	6.6	251
218	Presynaptic cannabinoid sensitivity is a major determinant of depolarization-induced retrograde suppression at hippocampal synapses. <i>Journal of Neuroscience</i> , 2002 , 22, 3864-72	6.6	251
217	A long CAG repeat in the mouse Sca1 locus replicates SCA1 features and reveals the impact of protein solubility on selective neurodegeneration. <i>Neuron</i> , 2002 , 34, 905-19	13.9	250
216	Impaired motor coordination and persistent multiple climbing fiber innervation of cerebellar Purkinje cells in mice lacking Galphaq. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 14089-94	11.5	242
215	Impairment of AMPA receptor function in cerebellar granule cells of ataxic mutant mouse stargazer. <i>Journal of Neuroscience</i> , 1999 , 19, 6027-36	6.6	221
214	Locally synchronized synaptic inputs. <i>Science</i> , 2012 , 335, 353-6	33.3	219
213	Local calcium release in dendritic spines required for long-term synaptic depression. <i>Neuron</i> , 2000 , 28, 233-44	13.9	217
212	Consensus Paper: Cerebellar Development. <i>Cerebellum</i> , 2016 , 15, 789-828	4.3	216
211	Synaptically driven endocannabinoid release requires Ca ²⁺ -assisted metabotropic glutamate receptor subtype 1 to phospholipase Cbeta4 signaling cascade in the cerebellum. <i>Journal of Neuroscience</i> , 2005 , 25, 6826-35	6.6	208
210	Two distinct classes of muscarinic action on hippocampal inhibitory synapses: M2-mediated direct suppression and M1/M3-mediated indirect suppression through endocannabinoid signalling. <i>European Journal of Neuroscience</i> , 2004 , 19, 2682-92	3.5	205
209	Functional differentiation of multiple climbing fiber inputs during synapse elimination in the developing cerebellum. <i>Neuron</i> , 2003 , 38, 785-96	13.9	201
208	Ablation of cerebellar Golgi cells disrupts synaptic integration involving GABA inhibition and NMDA receptor activation in motor coordination. <i>Cell</i> , 1998 , 95, 17-27	56.2	194
207	Rational design of a high-affinity, fast, red calcium indicator R-CaMP2. <i>Nature Methods</i> , 2015 , 12, 64-70	21.6	179
206	Phospholipase cbeta4 is specifically involved in climbing fiber synapse elimination in the developing cerebellum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 15724-9	11.5	164
205	Critical period for activity-dependent synapse elimination in developing cerebellum. <i>Journal of Neuroscience</i> , 2000 , 20, 4954-61	6.6	159
204	Intradendritic release of calcium induced by glutamate in cerebellar Purkinje cells. <i>Neuron</i> , 1991 , 7, 577-83	8.9	156

203	Presynaptic monoacylglycerol lipase activity determines basal endocannabinoid tone and terminates retrograde endocannabinoid signaling in the hippocampus. <i>Journal of Neuroscience</i> , 2007 , 27, 1211-9	6.6	152
202	Endocannabinoid-mediated retrograde modulation of synaptic transmission. <i>Current Opinion in Neurobiology</i> , 2014 , 29, 1-8	7.6	151
201	Synapse elimination in the central nervous system. <i>Current Opinion in Neurobiology</i> , 2009 , 19, 154-61	7.6	151
200	Distal extension of climbing fiber territory and multiple innervation caused by aberrant wiring to adjacent spiny branchlets in cerebellar Purkinje cells lacking glutamate receptor delta 2. <i>Journal of Neuroscience</i> , 2002 , 22, 8487-503	6.6	151
199	L-serine and glycine serve as major astroglia-derived trophic factors for cerebellar Purkinje neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 11528-33	11.5	151
198	Roles of glutamate receptor delta 2 subunit (GluRdelta 2) and metabotropic glutamate receptor subtype 1 (mGluR1) in climbing fiber synapse elimination during postnatal cerebellar development. <i>Journal of Neuroscience</i> , 2001 , 21, 9701-12	6.6	147
197	Signaling complex formation of phospholipase Cbeta4 with metabotropic glutamate receptor type 1alpha and 1,4,5-trisphosphate receptor at the perisynapse and endoplasmic reticulum in the mouse brain. <i>European Journal of Neuroscience</i> , 2004 , 20, 2929-44	3.5	144
196	The cannabinoid CB1 receptor mediates retrograde signals for depolarization-induced suppression of inhibition in cerebellar Purkinje cells. <i>Journal of Neuroscience</i> , 2002 , 22, 1690-7	6.6	144
195	Translocation of a "winner" climbing fiber to the Purkinje cell dendrite and subsequent elimination of "losers" from the soma in developing cerebellum. <i>Neuron</i> , 2009 , 63, 106-18	13.9	141
194	Endocannabinoids and synaptic function in the CNS. <i>Neuroscientist</i> , 2007 , 13, 127-37	7.6	141
193	Cooperative endocannabinoid production by neuronal depolarization and group I metabotropic glutamate receptor activation. <i>European Journal of Neuroscience</i> , 2002 , 15, 953-61	3.5	140
192	Postsynaptic M1 and M3 receptors are responsible for the muscarinic enhancement of retrograde endocannabinoid signalling in the hippocampus. <i>European Journal of Neuroscience</i> , 2003 , 18, 109-16	3.5	138
191	Potentiation of GABA-mediated currents by cAMP-dependent protein kinase. <i>NeuroReport</i> , 1992 , 3, 563-67	6.7	138
190	Angiotensin receptor blocker prevented beta-amyloid-induced cognitive impairment associated with recovery of neurovascular coupling. <i>Hypertension</i> , 2009 , 54, 1345-52	8.5	125
189	P/Q-type Ca ²⁺ channel alpha1A regulates synaptic competition on developing cerebellar Purkinje cells. <i>Journal of Neuroscience</i> , 2004 , 24, 1734-43	6.6	123
188	In vivo two-photon uncaging of glutamate revealing the structure-function relationships of dendritic spines in the neocortex of adult mice. <i>Journal of Physiology</i> , 2011 , 589, 2447-57	3.9	122
187	Plasticity of inhibitory synapses in the brain: a possible memory mechanism that has been overlooked. <i>Neuroscience Research</i> , 1995 , 21, 177-82	2.9	121
186	Patterns of expression for the mRNA corresponding to the four isoforms of phospholipase Cbeta in mouse brain. <i>European Journal of Neuroscience</i> , 1998 , 10, 2016-25	3.5	120

185	Climbing fiber synapse elimination in cerebellar Purkinje cells. <i>European Journal of Neuroscience</i> , 2011 , 34, 1697-710	3.5	116
184	Corticotropin-releasing factor plays a permissive role in cerebellar long-term depression. <i>Neuron</i> , 1999 , 22, 763-75	13.9	114
183	Tonic enhancement of endocannabinoid-mediated retrograde suppression of inhibition by cholinergic interneuron activity in the striatum. <i>Journal of Neuroscience</i> , 2007 , 27, 496-506	6.6	112
182	Rational Engineering of XCaMPs, a Multicolor GECI Suite for In Vivo Imaging of Complex Brain Circuit Dynamics. <i>Cell</i> , 2019 , 177, 1346-1360.e24	56.2	111
181	Ca ²⁺ -induced rebound potentiation of gamma-aminobutyric acid-mediated currents requires activation of Ca ²⁺ /calmodulin-dependent kinase II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 13351-6	11.5	111
180	Abundant distribution of TARP gamma-8 in synaptic and extrasynaptic surface of hippocampal neurons and its major role in AMPA receptor expression on spines and dendrites. <i>European Journal of Neuroscience</i> , 2006 , 24, 2177-90	3.5	110
179	Gq protein alpha subunits Galphaq and Galpha11 are localized at postsynaptic extra-junctional membrane of cerebellar Purkinje cells and hippocampal pyramidal cells. <i>European Journal of Neuroscience</i> , 2000 , 12, 781-92	3.5	109
178	Endogenous cannabinoid as a retrograde messenger from depolarized postsynaptic neurons to presynaptic terminals. <i>Neuroscience Research</i> , 2001 , 40, 205-10	2.9	109
177	Cerebellar plasticity and motor learning deficits in a copy-number variation mouse model of autism. <i>Nature Communications</i> , 2014 , 5, 5586	17.4	107
176	Presynaptic origin of paired-pulse depression at climbing fibre-Purkinje cell synapses in the rat cerebellum. <i>Journal of Physiology</i> , 1998 , 506 (Pt 2), 391-405	3.9	105
175	Stimulation parameters influencing climbing fibre induced long-term depression of parallel fibre synapses. <i>Neuroscience Research</i> , 1989 , 6, 264-8	2.9	105
174	Functional labeling of neurons and their projections using the synthetic activity-dependent promoter E-SARE. <i>Nature Methods</i> , 2013 , 10, 889-95	21.6	104
173	Endogenous cannabinoid signaling through the CB1 receptor is essential for cerebellum-dependent discrete motor learning. <i>Journal of Neuroscience</i> , 2006 , 26, 8829-37	6.6	104
172	Weeding out bad waves: towards selective cannabinoid circuit control in epilepsy. <i>Nature Reviews Neuroscience</i> , 2015 , 16, 264-77	13.5	101
171	Synapse elimination in the developing cerebellum. <i>Cellular and Molecular Life Sciences</i> , 2013 , 70, 4667-80	10.3	99
170	Ca ²⁺ activity at GABAB receptors constitutively promotes metabotropic glutamate signaling in the absence of GABA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 16952-7	11.5	99
169	PSD-93 knock-out mice reveal that neuronal MAGUKs are not required for development or function of parallel fiber synapses in cerebellum. <i>Journal of Neuroscience</i> , 2001 , 21, 3085-91	6.6	98
168	Transsynaptic Modulation of Kainate Receptor Functions by C1q-like Proteins. <i>Neuron</i> , 2016 , 90, 752-67	13.9	95

167	Postsynaptic P/Q-type Ca ²⁺ channel in Purkinje cell mediates synaptic competition and elimination in developing cerebellum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 9987-92	11.5	92
166	Deficient long-term synaptic depression in the rostral cerebellum correlated with impaired motor learning in phospholipase C beta4 mutant mice. <i>European Journal of Neuroscience</i> , 2001 , 13, 1945-54	3.5	92
165	Retrograde semaphorin signaling regulates synapse elimination in the developing mouse brain. <i>Science</i> , 2014 , 344, 1020-3	33.3	91
164	Unique inhibitory synapse with particularly rich endocannabinoid signaling machinery on pyramidal neurons in basal amygdaloid nucleus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 3059-64	11.5	91
163	Postnatal development and synapse elimination of climbing fiber to Purkinje cell projection in the cerebellum. <i>Neuroscience Research</i> , 2005 , 53, 221-8	2.9	91
162	Astroglial glutamate transporter deficiency increases synaptic excitability and leads to pathological repetitive behaviors in mice. <i>Neuropsychopharmacology</i> , 2015 , 40, 1569-79	8.7	89
161	Type-1 metabotropic glutamate receptor in cerebellar Purkinje cells: a key molecule responsible for long-term depression, endocannabinoid signalling and synapse elimination. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008 , 363, 2173-86	5.8	88
160	GABAergic inhibition regulates developmental synapse elimination in the cerebellum. <i>Neuron</i> , 2012 , 74, 384-96	13.9	85
159	A highly sensitive fluorescent indicator dye for calcium imaging of neural activity in vitro and in vivo. <i>European Journal of Neuroscience</i> , 2014 , 39, 1720-8	3.5	82
158	Arc/Arg3.1 is a postsynaptic mediator of activity-dependent synapse elimination in the developing cerebellum. <i>Neuron</i> , 2013 , 78, 1024-35	13.9	82
157	Influence of parallel fiber-Purkinje cell synapse formation on postnatal development of climbing fiber-Purkinje cell synapses in the cerebellum. <i>Neuroscience</i> , 2009 , 162, 601-11	3.9	80
156	Control of synaptic function by endocannabinoid-mediated retrograde signaling. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2014 , 90, 235-50	4	78
155	Pharmacological evidence for the involvement of diacylglycerol lipase in depolarization-induced endocannabinoid release. <i>Neuropharmacology</i> , 2008 , 54, 58-67	5.5	77
154	Depolarization-induced suppression of inhibition mediated by endocannabinoids at synapses from fast-spiking interneurons to medium spiny neurons in the striatum. <i>European Journal of Neuroscience</i> , 2006 , 24, 2246-52	3.5	76
153	Functional coupling between mGluR1 and Cav3.1 T-type calcium channels contributes to parallel fiber-induced fast calcium signaling within Purkinje cell dendritic spines. <i>Journal of Neuroscience</i> , 2009 , 29, 9668-82	6.6	75
152	A novel action of stargazin as an enhancer of AMPA receptor activity. <i>Neuroscience Research</i> , 2004 , 50, 369-74	2.9	74
151	Involvement of NMDAR2A tyrosine phosphorylation in depression-related behaviour. <i>EMBO Journal</i> , 2009 , 28, 3717-29	13	73
150	Mode of induction of long-term depression at parallel fibre--Purkinje cell synapses in rabbit cerebellar cortex. <i>Neuroscience Research</i> , 1988 , 5, 544-56	2.9	71

149	Endocannabinoids and retrograde modulation of synaptic transmission. <i>Neuroscientist</i> , 2012 , 18, 119-32	7.6	70
148	A reliable method for culture of dissociated mouse cerebellar cells enriched for Purkinje neurons. <i>Journal of Neuroscience Methods</i> , 2000 , 104, 45-53	3	70
147	Fractional calcium current through neuronal AMPA-receptor channels with a low calcium permeability. <i>Journal of Neuroscience</i> , 1996 , 16, 456-66	6.6	70
146	Molecular and morphological configuration for 2-arachidonoylglycerol-mediated retrograde signaling at mossy cell-granule cell synapses in the dentate gyrus. <i>Journal of Neuroscience</i> , 2011 , 31, 7700-14	6.6	68
145	Distinct roles of Galpha(q) and Galpha11 for Purkinje cell signaling and motor behavior. <i>Journal of Neuroscience</i> , 2004 , 24, 5119-30	6.6	68
144	TARPs gamma-2 and gamma-7 are essential for AMPA receptor expression in the cerebellum. <i>European Journal of Neuroscience</i> , 2010 , 31, 2204-20	3.5	67
143	Ca(2+)-assisted receptor-driven endocannabinoid release: mechanisms that associate presynaptic and postsynaptic activities. <i>Current Opinion in Neurobiology</i> , 2007 , 17, 360-5	7.6	67
142	Retrograde BDNF to TrkB signaling promotes synapse elimination in the developing cerebellum. <i>Nature Communications</i> , 2017 , 8, 195	17.4	66
141	ORP150/HSP12A regulates Purkinje cell survival: a role for endoplasmic reticulum stress in cerebellar development. <i>Journal of Neuroscience</i> , 2004 , 24, 1486-96	6.6	65
140	mGluR1 in cerebellar Purkinje cells is required for normal association of temporally contiguous stimuli in classical conditioning. <i>European Journal of Neuroscience</i> , 2002 , 16, 2416-24	3.5	65
139	Impaired motor coordination in mice lacking neural recognition molecule NB-3 of the contactin/F3 subgroup. <i>Journal of Neurobiology</i> , 2003 , 56, 252-65		63
138	Cav2.1 in cerebellar Purkinje cells regulates competitive excitatory synaptic wiring, cell survival, and cerebellar biochemical compartmentalization. <i>Journal of Neuroscience</i> , 2012 , 32, 1311-28	6.6	62
137	Functional reorganization of adult cat somatosensory cortex is dependent on NMDA receptors. <i>NeuroReport</i> , 1991 , 2, 77-80	1.7	61
136	Spatiotemporal dynamics of functional clusters of neurons in the mouse motor cortex during a voluntary movement. <i>Journal of Neuroscience</i> , 2013 , 33, 1377-90	6.6	60
135	Motor discoordination in mutant mice lacking junctophilin type 3. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 292, 318-24	3.4	60
134	LTD-like molecular pathways in developmental synaptic pruning. <i>Nature Neuroscience</i> , 2016 , 19, 1299-310	5.5	60
133	Disturbance of cerebellar synaptic maturation in mutant mice lacking BSRPs, a novel brain-specific receptor-like protein family. <i>FEBS Letters</i> , 2006 , 580, 4057-64	3.8	58
132	Climbing fiber synapse elimination during postnatal cerebellar development requires signal transduction involving G alpha q and phospholipase C beta 4. <i>Progress in Brain Research</i> , 2000 , 124, 31-48	2.9	58

131	Selective activation of mTORC1 signaling recapitulates microcephaly, tuberous sclerosis, and neurodegenerative diseases. <i>Cell Reports</i> , 2014 , 7, 1626-1639	10.6	57
130	The synaptic targeting of mGluR1 by its carboxyl-terminal domain is crucial for cerebellar function. <i>Journal of Neuroscience</i> , 2014 , 34, 2702-12	6.6	56
129	Miniature synaptic events elicited by presynaptic Ca ²⁺ rise are selectively suppressed by cannabinoid receptor activation in cerebellar Purkinje cells. <i>Journal of Neuroscience</i> , 2006 , 26, 86-95	6.6	56
128	Hippocampal CA3 NMDA receptors are crucial for adaptive timing of trace eyeblink conditioned response. <i>Journal of Neuroscience</i> , 2006 , 26, 1562-70	6.6	55
127	Maintenance of presynaptic function by AMPA receptor-mediated excitatory postsynaptic activity in adult brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 19180-5	11.5	53
126	Protocadherin 17 regulates presynaptic assembly in topographic corticobasal Ganglia circuits. <i>Neuron</i> , 2013 , 78, 839-54	13.9	52
125	Modest neuropsychological deficits caused by reduced noradrenaline metabolism in mice heterozygous for a mutated tyrosine hydroxylase gene. <i>Journal of Neuroscience</i> , 2000 , 20, 2418-26	6.6	52
124	Conditioned eyeblink learning is formed and stored without cerebellar granule cell transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 16690-5	11.5	51
123	Complementary synaptic distribution of enzymes responsible for synthesis and inactivation of the endocannabinoid 2-arachidonoylglycerol in the human hippocampus. <i>Neuroscience</i> , 2011 , 174, 50-63	3.9	50
122	Endocannabinoid signalling triggered by NMDA receptor-mediated calcium entry into rat hippocampal neurons. <i>Journal of Physiology</i> , 2007 , 584, 407-18	3.9	49
121	Junctophilin-mediated channel crosstalk essential for cerebellar synaptic plasticity. <i>EMBO Journal</i> , 2007 , 26, 1924-33	13	49
120	Validation of Abeta1-40 administration into mouse cerebroventricles as an animal model for Alzheimer disease. <i>Brain Research</i> , 2009 , 1280, 137-47	3.7	48
119	Structure-function relationships between aldolase C/zebrin II expression and complex spike synchrony in the cerebellum. <i>Journal of Neuroscience</i> , 2015 , 35, 843-52	6.6	46
118	Territories of heterologous inputs onto Purkinje cell dendrites are segregated by mGluR1-dependent parallel fiber synapse elimination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 2282-7	11.5	46
117	Effects of insulin-like growth factor I on climbing fibre synapse elimination during cerebellar development. <i>European Journal of Neuroscience</i> , 2003 , 17, 545-54	3.5	46
116	Developmental switching of perisomatic innervation from climbing fibers to basket cell fibers in cerebellar Purkinje cells. <i>Journal of Neuroscience</i> , 2011 , 31, 16916-27	6.6	45
115	Group I metabotropic glutamate receptor signaling via Galpha q/Galpha 11 secures the induction of long-term potentiation in the hippocampal area CA1. <i>Journal of Neuroscience</i> , 2002 , 22, 8379-90	6.6	45
114	Serotonin rebalances cortical tuning and behavior linked to autism symptoms in 15q11-13 CNV mice. <i>Science Advances</i> , 2017 , 3, e1603001	14.3	44

113	Postsynaptic GABAB receptor signalling enhances LTD in mouse cerebellar Purkinje cells. <i>Journal of Physiology</i> , 2007 , 585, 549-63	3.9	44
112	Activity-dependent gating of calcium spikes by A-type K ⁺ channels controls climbing fiber signaling in Purkinje cell dendrites. <i>Neuron</i> , 2014 , 84, 137-151	13.9	43
111	Synapse type-independent degradation of the endocannabinoid 2-arachidonoylglycerol after retrograde synaptic suppression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 12195-200	11.5	43
110	Calcium signaling and synaptic modulation: regulation of endocannabinoid-mediated synaptic modulation by calcium. <i>Cell Calcium</i> , 2005 , 38, 369-74	4	43
109	Crucial Roles of the Endocannabinoid 2-Arachidonoylglycerol in the Suppression of Epileptic Seizures. <i>Cell Reports</i> , 2016 , 16, 1405-1415	10.6	42
108	Role of pre- and postsynaptic activity in thalamocortical axon branching. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 7562-7	11.5	42
107	Acute inhibition of diacylglycerol lipase blocks endocannabinoid-mediated retrograde signalling: evidence for on-demand biosynthesis of 2-arachidonoylglycerol. <i>Journal of Physiology</i> , 2013 , 591, 4765-76 ⁹	3.9	41
106	Endocannabinoid-mediated short-term suppression of excitatory synaptic transmission to medium spiny neurons in the striatum. <i>Neuroscience Research</i> , 2006 , 54, 159-64	2.9	41
105	Calcium-dependent persistent facilitation of spike backpropagation in the CA1 pyramidal neurons. <i>Journal of Neuroscience</i> , 2000 , 20, 4878-84	6.6	41
104	Multiple Phases of Climbing Fiber Synapse Elimination in the Developing Cerebellum. <i>Cerebellum</i> , 2018 , 17, 722-734	4.3	39
103	Long-lasting potentiation of GABAergic inhibitory synaptic transmission in cerebellar Purkinje cells: Its properties and possible mechanisms. <i>Behavioral and Brain Sciences</i> , 1996 , 19, 354-361	0.9	39
102	Roles of phospholipase Cbeta4 in synapse elimination and plasticity in developing and mature cerebellum. <i>Molecular Neurobiology</i> , 2001 , 23, 69-82	6.2	38
101	Extracellular calcium controls the dynamic range of neuronal metabotropic glutamate receptor responses. <i>Molecular and Cellular Neurosciences</i> , 2002 , 20, 56-68	4.8	38
100	Severe neurological phenotypes of Q129 DRPLA transgenic mice serendipitously created by en masse expansion of CAG repeats in Q76 DRPLA mice. <i>Human Molecular Genetics</i> , 2009 , 18, 723-36	5.6	37
99	Involvement of protein-tyrosine phosphatase PTPMEG in motor learning and cerebellar long-term depression. <i>European Journal of Neuroscience</i> , 2007 , 26, 2269-78	3.5	37
98	The glutamate receptor subtype mediating parallel fibre-Purkinje cell transmission in rabbit cerebellar cortex. <i>Neuroscience Research</i> , 1988 , 5, 325-37	2.9	37
97	Diminished climbing fiber innervation of Purkinje cells in the cerebellum of myosin Va mutant mice and rats. <i>Developmental Neurobiology</i> , 2007 , 67, 909-23	3.2	36
96	Insulin-like growth factor-I as a promoting factor for cerebellar Purkinje cell development. <i>European Journal of Neuroscience</i> , 2003 , 17, 2006-16	3.5	36

95	Sparse Activity of Hippocampal Adult-Born Neurons during REM Sleep Is Necessary for Memory Consolidation. <i>Neuron</i> , 2020 , 107, 552-565.e10	13.9	35
94	Glutamate transporter GLAST controls synaptic wrapping by Bergmann glia and ensures proper wiring of Purkinje cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7438-7443	11.5	34
93	Spike timing-dependent selective strengthening of single climbing fibre inputs to Purkinje cells during cerebellar development. <i>Nature Communications</i> , 2013 , 4, 2732	17.4	32
92	Roles of phospholipase Cbeta and NMDA receptor in activity-dependent endocannabinoid release. <i>Journal of Physiology</i> , 2007 , 584, 373-80	3.9	31
91	Synaptic organization of the cerebello-thalamo-cerebral pathway in the cat. III. Cerebellar input to corticofugal neurons destined for different subcortical nuclei in areas 4 and 6. <i>Neuroscience Research</i> , 1986 , 3, 321-44	2.9	31
90	A role for myosin Va in cerebellar plasticity and motor learning: a possible mechanism underlying neurological disorder in myosin Va disease. <i>Journal of Neuroscience</i> , 2011 , 31, 6067-78	6.6	29
89	Metabotropic glutamate receptor subtype-1 is essential for motor coordination in the adult cerebellum. <i>Neuroscience Research</i> , 2007 , 57, 538-43	2.9	29
88	Supramammillary Nucleus Afferents to the Dentate Gyrus Co-release Glutamate and GABA and Potentiate Granule Cell Output. <i>Cell Reports</i> , 2018 , 25, 2704-2715.e4	10.6	28
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