Masahiko Watanabe

List of Publications by Citations

623 papers	35,978 citations	96 h-index	159 g-index
648 ext. papers	40,156 ext. citations	6.6 avg, IF	6.92 L-index

#	Paper	IF	Citations
623	Epilepsy and exacerbation of brain injury in mice lacking the glutamate transporter GLT-1. *Science*, **1997**, 276, 1699-702	33.3	1429
622	Endocannabinoid-mediated control of synaptic transmission. *Physiological Reviews*, **2009**, 89, 309-80	47.9	1039
621	Requirement for hippocampal CA3 NMDA receptors in associative memory recall. *Science*, **2002**, 297, 211-8	33.3	822
620	Developmental changes in distribution of NMDA receptor channel subunit mRNAs. *NeuroReport*, **1992**, 3, 1138-40	1.7	629
619	Impairment of suckling response, trigeminal neuronal pattern formation, and hippocampal LTD in NMDA receptor epsilon 2 subunit mutant mice. *Neuron*, **1996**, 16, 333-44	13.9	430
618	Ptf1a, a bHLH transcriptional gene, defines GABAergic neuronal fates in cerebellum. *Neuron*, **2005**, 47, 201-13	13.9	418
617	Impaired synapse elimination during cerebellar development in PKC gamma mutant mice. *Cell*, **1995**, 83, 1223-31	56.2	399
616	Diversity revealed by a novel family of cadherins expressed in neurons at a synaptic complex. *Neuron*, **1998**, 20, 1137-51	13.9	385
615	The CB1 cannabinoid receptor is the major cannabinoid receptor at excitatory presynaptic sites in the hippocampus and cerebellum. *Journal of Neuroscience*, **2006**, 26, 2991-3001	6.6	362
614	The endocannabinoid 2-arachidonoylglycerol produced by diacylglycerol lipase alpha mediates retrograde suppression of synaptic transmission. *Neuron*, **2010**, 65, 320-7	13.9	352
613	Locus coeruleus and dopaminergic consolidation of everyday memory. *Nature*, **2016**, 537, 357-362	50.4	347
612	Motor discoordination and increased susceptibility to cerebellar injury in GLAST mutant mice. *European Journal of Neuroscience*, **1998**, 10, 976-88	3.5	341
611	Complementary roles of cholecystokinin- and parvalbumin-expressing GABAergic neurons in hippocampal network oscillations. *Journal of Neuroscience*, **2005**, 25, 9782-93	6.6	325
610	Subcellular arrangement of molecules for 2-arachidonoyl-glycerol-mediated retrograde signaling and its physiological contribution to synaptic modulation in the striatum. *Journal of Neuroscience*, **2007**, 27, 3663-76	6.6	314
609	Distinct distributions of five N-methyl-D-aspartate receptor channel subunit mRNAs in the forebrain. *Journal of Comparative Neurology*, **1993**, 338, 377-90	3.4	292
608	Release probability of hippocampal glutamatergic terminals scales with the size of the active zone. *Nature Neuroscience*, **2012**, 15, 988-97	25.5	286
607	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. *Journal of Neuroscience*, **2006**, 26, 4740-51	6.6	281

606	Persistent multiple climbing fiber innervation of cerebellar Purkinje cells in mice lacking mGluR1. *Neuron*, **1997**, 18, 71-9	13.9	269
605	Selective scarcity of NMDA receptor channel subunits in the stratum lucidum (mossy fibre-recipient layer) of the mouse hippocampal CA3 subfield. *European Journal of Neuroscience*, **1998**, 10, 478-87	3.5	264
604	Cbln1 is a ligand for an orphan glutamate receptor delta2, a bidirectional synapse organizer. *Science*, **2010**, 328, 363-8	33.3	256
603	Cloning and expression of the epsilon 4 subunit of the NMDA receptor channel. *FEBS Letters*, **1992**, 313, 34-8	3.8	253
602	Impaired parallel fiber-->Purkinje cell synapse stabilization during cerebellar development of mutant mice lacking the glutamate receptor delta2 subunit. *Journal of Neuroscience*, **1997**, 17, 9613-23	6.6	251
601	Subtype switching of vesicular glutamate transporters at parallel fibre-Purkinje cell synapses in developing mouse cerebellum. *European Journal of Neuroscience*, **2003**, 17, 2563-72	3.5	251
600	Cbln1 is essential for synaptic integrity and plasticity in the cerebellum. *Nature Neuroscience*, **2005**, 8, 1534-41	25.5	249
599	Autoantibodies to epilepsy-related LGI1 in limbic encephalitis neutralize LGI1-ADAM22 interaction and reduce synaptic AMPA receptors. *Journal of Neuroscience*, **2013**, 33, 18161-74	6.6	237
598	Lysophosphatidic acid and autotaxin stimulate cell motility of neoplastic and non-neoplastic cells through LPA1. *Journal of Biological Chemistry*, **2004**, 279, 17634-9	5.4	226
597	Dynorphin acts as a neuromodulator to inhibit itch in the dorsal horn of the spinal cord. *Neuron*, **2014**, 82, 573-86	13.9	225
596	Impairment of AMPA receptor function in cerebellar granule cells of ataxic mutant mouse stargazer. *Journal of Neuroscience*, **1999**, 19, 6027-36	6.6	221
595	Metabotropic glutamate type 5, dopamine D2 and adenosine A2a receptors form higher-order oligomers in living cells. *Journal of Neurochemistry*, **2009**, 109, 1497-507	6	218
594	Apo E structure determines VLDL clearance and atherosclerosis risk in mice. *Journal of Clinical Investigation*, **1999**, 103, 1579-86	15.9	208
593	Two distinct classes of muscarinic action on hippocampal inhibitory synapses: M2-mediated direct suppression and M1/M3-mediated indirect suppression through endocannabinoid signalling. *European Journal of Neuroscience*, **2004**, 19, 2682-92	3.5	205
592	Downregulation of the CB1 cannabinoid receptor and related molecular elements of the endocannabinoid system in epileptic human hippocampus. *Journal of Neuroscience*, **2008**, 28, 2976-90	6.6	180
591	SK2 channel plasticity contributes to LTP at Schaffer collateral-CA1 synapses. *Nature Neuroscience*, **2008**, 11, 170-7	25.5	179
590	CB(1) signaling in forebrain and sympathetic neurons is a key determinant of endocannabinoid actions on energy balance. *Cell Metabolism*, **2010**, 11, 273-85	24.6	171
589	RGS2 modulates coupling between GABAB receptors and GIRK channels in dopamine neurons of the ventral tegmental area. *Nature Neuroscience*, **2007**, 10, 1559-68	25.5	169

588	The Cellular and Synaptic Architecture of the Mechanosensory Dorsal Horn. *Cell*, **2017**, 168, 295-310.e19	56.2	168
587	Preferential localization of muscarinic M1 receptor on dendritic shaft and spine of cortical pyramidal cells and its anatomical evidence for volume transmission. *Journal of Neuroscience*, **2010**, 30, 4408-18	6.6	163
586	Cytodifferentiation of Bergmann glia and its relationship with Purkinje cells. *Kaibogaku Zasshi Journal of Anatomy*, **2002**, 77, 94-108		162
585	Cell-specific STORM super-resolution imaging reveals nanoscale organization of cannabinoid signaling. *Nature Neuroscience*, **2015**, 18, 75-86	25.5	159
584	Critical period for activity-dependent synapse elimination in developing cerebellum. *Journal of Neuroscience*, **2000**, 20, 4954-61	6.6	159
583	T-type Ca2+ channels, SK2 channels and SERCAs gate sleep-related oscillations in thalamic dendrites. *Nature Neuroscience*, **2008**, 11, 683-92	25.5	156
582	GABAergic basket cells expressing cholecystokinin contain vesicular glutamate transporter type 3 (VGLUT3) in their synaptic terminals in hippocampus and isocortex of the rat. *European Journal of Neuroscience*, **2004**, 19, 552-69	3.5	156
581	Retention of NMDA receptor NR2 subunits in the lumen of endoplasmic reticulum in targeted NR1 knockout mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 4855-60	11.5	156
580	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. *Journal of Neuroscience*, **2002**, 22, 8487-503	6.6	151
579	Distinct spatiotemporal expressions of five NMDA receptor channel subunit mRNAs in the cerebellum. *Journal of Comparative Neurology*, **1994**, 343, 513-9	3.4	150
578	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. *Journal of Neuroscience*, **2001**, 21, 9701-12	6.6	147
577	Left-right asymmetry of the hippocampal synapses with differential subunit allocation of glutamate receptors. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 19498-503	11.5	144
576	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. *European Journal of Neuroscience*, **2004**, 20, 2929-44	3.5	144
575	Fyn kinase-mediated phosphorylation of NMDA receptor NR2B subunit at Tyr1472 is essential for maintenance of neuropathic pain. *European Journal of Neuroscience*, **2005**, 22, 1445-54	3.5	143
574	Improved immunohistochemical detection of postsynaptically located PSD-95/SAP90 protein family by protease section pretreatment: A study in the adult mouse brain. *Journal of Comparative Neurology*, **2000**, 426, 572-586	3.4	142
573	Translocation of a "winner" climbing fiber to the Purkinje cell dendrite and subsequent elimination of "losers" from the soma in developing cerebellum. *Neuron*, **2009**, 63, 106-18	13.9	141
572	Spinal endocannabinoids and CB1 receptors mediate C-fiber-induced heterosynaptic pain sensitization. *Science*, **2009**, 325, 760-4	33.3	140
571	Identification of the sites of 2-arachidonoylglycerol synthesis and action imply retrograde endocannabinoid signaling at both GABAergic and glutamatergic synapses in the ventral tegmental area. *Neuropharmacology*, **2008**, 54, 95-107	5.5	140

570	Distinct cellular expressions of creatine synthetic enzyme GAMT and creatine kinases uCK-Mi and CK-B suggest a novel neuron-glial relationship for brain energy homeostasis. *European Journal of Neuroscience*, **2004**, 20, 144-60	3.5	140
569	Number and density of AMPA receptors in individual synapses in the rat cerebellum as revealed by SDS-digested freeze-fracture replica labeling. *Journal of Neuroscience*, **2007**, 27, 2135-44	6.6	138
568	Peripheral, but not central, CB1 antagonism provides food intake-independent metabolic benefits in diet-induced obese rats. *Diabetes*, **2008**, 57, 2977-91	0.9	134
567	The blood-brain barrier creatine transporter is a major pathway for supplying creatine to the brain. *Journal of Cerebral Blood Flow and Metabolism*, **2002**, 22, 1327-35	7.3	134
566	Three types of neurochemical projection from the bed nucleus of the stria terminalis to the ventral tegmental area in adult mice. *Journal of Neuroscience*, **2012**, 32, 18035-46	6.6	133
565	Complementary stripes of phospholipase Cbeta3 and Cbeta4 expression by Purkinje cell subsets in the mouse cerebellum. *Journal of Comparative Neurology*, **2006**, 496, 303-13	3.4	131
564	Spinocerebellar ataxia type 6 knockin mice develop a progressive neuronal dysfunction with age-dependent accumulation of mutant CaV2.1 channels. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 11987-92	11.5	130
563	EAAT4 is a post-synaptic glutamate transporter at Purkinje cell synapses. *NeuroReport*, **1996**, 7, 2013-7	1.7	128
562	Molecular reorganization of endocannabinoid signalling in Alzheimer's disease. *Brain*, **2011**, 134, 1041-60	11.2	127
561	Role of the carboxy-terminal region of the GluR epsilon2 subunit in synaptic localization of the NMDA receptor channel. *Neuron*, **1998**, 21, 571-80	13.9	126
560	NR2B tyrosine phosphorylation modulates fear learning as well as amygdaloid synaptic plasticity. *EMBO Journal*, **2006**, 25, 2867-77	13	125
559	Expression of sialyl Lewis(a) as a new prognostic factor for patients with advanced colorectal carcinoma. *Cancer*, **1995**, 75, 2051-6	6.4	125
558	Orthotopic transplantation of histologically intact clinical specimens of stomach cancer to nude mice: correlation of metastatic sites in mouse and individual patient donors. *International Journal of Cancer*, **1993**, 53, 608-12	7.5	125
557	Aberrant membranes and double-membrane structures accumulate in the axons of Atg5-null Purkinje cells before neuronal death. *Autophagy*, **2007**, 3, 591-6	10.2	124
556	P/Q-type Ca2+ channel alpha1A regulates synaptic competition on developing cerebellar Purkinje cells. *Journal of Neuroscience*, **2004**, 24, 1734-43	6.6	123
555	Circuit dissection of the role of somatostatin in itch and pain. *Nature Neuroscience*, **2018**, 21, 707-716	25.5	122
554	Developmental changes in expression and distribution of the glutamate receptor channel delta 2 subunit according to the Purkinje cell maturation. *Developmental Brain Research*, **1996**, 92, 147-55		122
553	Distinct spatiotemporal distributions of the N-methyl-D-aspartate receptor channel subunit mRNAs in the mouse cervical cord. *Journal of Comparative Neurology*, **1994**, 345, 314-9	3.4	122

552	Patterns of expression for the mRNA corresponding to the four isoforms of phospholipase Cbeta in mouse brain. *European Journal of Neuroscience*, **1998**, 10, 2016-25	3.5	120
551	Functional expression of rat ABCG2 on the luminal side of brain capillaries and its enhancement by astrocyte-derived soluble factor(s). *Journal of Neurochemistry*, **2004**, 90, 526-36	6	120
550	Anterograde C1ql1 signaling is required in order to determine and maintain a single-winner climbing fiber in the mouse cerebellum. *Neuron*, **2015**, 85, 316-29	13.9	116
549	Climbing fiber synapse elimination in cerebellar Purkinje cells. *European Journal of Neuroscience*, **2011**, 34, 1697-710	3.5	116
548	Synaptic distribution of the NR1, NR2A and NR2B subunits of the N-methyl-d-aspartate receptor in the rat lumbar spinal cord revealed with an antigen-unmasking technique. *European Journal of Neuroscience*, **2004**, 20, 3301-12	3.5	115
547	Accumulation of AMPA receptors in autophagosomes in neuronal axons lacking adaptor protein AP-4. *Neuron*, **2008**, 57, 730-45	13.9	113
546	MKP-7, a novel mitogen-activated protein kinase phosphatase, functions as a shuttle protein. *Journal of Biological Chemistry*, **2001**, 276, 39002-11	5.4	113
545	Gene cloning, sequence, expression and in situ localization of 80 kDa diacylglycerol kinase specific to oligodendrocyte of rat brain. *Molecular Brain Research*, **1992**, 16, 75-87		113
544	Tonic enhancement of endocannabinoid-mediated retrograde suppression of inhibition by cholinergic interneuron activity in the striatum. *Journal of Neuroscience*, **2007**, 27, 496-506	6.6	112
543	NMDA receptor GluN2B (GluR epsilon 2/NR2B) subunit is crucial for channel function, postsynaptic macromolecular organization, and actin cytoskeleton at hippocampal CA3 synapses. *Journal of Neuroscience*, **2009**, 29, 10869-82	6.6	111
542	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. *European Journal of Neuroscience*, **2006**, 24, 2177-90	3.5	110
541	NR3A-containing NMDARs promote neurotransmitter release and spike timing-dependent plasticity. *Nature Neuroscience*, **2011**, 14, 338-44	25.5	109
540	Distinct distributions of five NMDA receptor channel subunit mRNAs in the brainstem. *Journal of Comparative Neurology*, **1994**, 343, 520-31	3.4	109
539	Altered expression of glutamate transporters in experimental autoimmune encephalomyelitis. *Journal of Neuroimmunology*, **2002**, 125, 170-8	3.5	109
538	Selective reduction of a PDZ protein, SAP-97, in the prefrontal cortex of patients with chronic schizophrenia. *Journal of Neurochemistry*, **2002**, 83, 797-806	6	109
537	Gq protein alpha subunits Galphaq and Galpha11 are localized at postsynaptic extra-junctional membrane of cerebellar Purkinje cells and hippocampal pyramidal cells. *European Journal of Neuroscience*, **2000**, 12, 781-92	3.5	109
536	Immunolocalization of metabotropic glutamate receptor 1alpha (mGluR1alpha) in distinct classes of interneuron in the CA1 region of the rat hippocampus. *Hippocampus*, **2004**, 14, 193-215	3.5	108
535	Cerebellar plasticity and motor learning deficits in a copy-number variation mouse model of autism. *Nature Communications*, **2014**, 5, 5586	17.4	107

534	Control of synaptic connection by glutamate receptor delta2 in the adult cerebellum. *Journal of Neuroscience*, **2005**, 25, 2146-56	6.6	107
533	Quantitative localization of Cav2.1 (P/Q-type) voltage-dependent calcium channels in Purkinje cells: somatodendritic gradient and distinct somatic coclustering with calcium-activated potassium channels. *Journal of Neuroscience*, **2013**, 33, 3668-78	6.6	102
532	Widespread expression of the AMPA receptor GluR2 subunit at glutamatergic synapses in the rat spinal cord and phosphorylation of GluR1 in response to noxious stimulation revealed with an antigen-unmasking method. *Journal of Neuroscience*, **2004**, 24, 5766-77	6.6	102
531	Weeding out bad waves: towards selective cannabinoid circuit control in epilepsy. *Nature Reviews Neuroscience*, **2015**, 16, 264-77	13.5	101
530	Distinct spatio-temporal expression of ABCA and ABCG transporters in the developing and adult mouse brain. *Journal of Neurochemistry*, **2005**, 95, 294-304	6	100
529	Methamphetamine-evoked depression of GABA(B) receptor signaling in GABA neurons of the VTA. *Neuron*, **2012**, 73, 978-89	13.9	99
528	Targeted disruption of the mouse 3-phosphoglycerate dehydrogenase gene causes severe neurodevelopmental defects and results in embryonic lethality. *Journal of Biological Chemistry*, **2004**, 279, 3573-7	5.4	99
527	From the Cover: Indispensability of the glutamate transporters GLAST and GLT1 to brain development. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 12161-6	11.5	96
526	The endocannabinoid system is modulated in response to spinal cord injury in rats. *Neurobiology of Disease*, **2009**, 33, 57-71	7.5	95
525	Distribution of type 1 cannabinoid receptor (CB1)-immunoreactive axons in the mouse hypothalamus. *Journal of Comparative Neurology*, **2007**, 503, 270-9	3.4	95
524	Transsynaptic Modulation of Kainate Receptor Functions by C1q-like Proteins. *Neuron*, **2016**, 90, 752-67	13.9	95
523	Delphilin: a novel PDZ and formin homology domain-containing protein that synaptically colocalizes and interacts with glutamate receptor delta 2 subunit. *Journal of Neuroscience*, **2002**, 22, 803-14	6.6	94
522	Multiple Forms of Endocannabinoid and Endovanilloid Signaling Regulate the Tonic Control of GABA Release. *Journal of Neuroscience*, **2015**, 35, 10039-57	6.6	93
521	Distinct functions of kainate receptors in the brain are determined by the auxiliary subunit Neto1. *Nature Neuroscience*, **2011**, 14, 866-73	25.5	93
520	Developmental changes in expression of the three ryanodine receptor mRNAs in the mouse brain. *Neuroscience Letters*, **2000**, 285, 57-60	3.3	93
519	Brain-specific Phgdh deletion reveals a pivotal role for L-serine biosynthesis in controlling the level of D-serine, an N-methyl-D-aspartate receptor co-agonist, in adult brain. *Journal of Biological Chemistry*, **2010**, 285, 41380-90	5.4	92
518	Postsynaptic P/Q-type Ca2+ channel in Purkinje cell mediates synaptic competition and elimination in developing cerebellum. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 9987-92	11.5	92
517	Retrograde semaphorin signaling regulates synapse elimination in the developing mouse brain. *Science*, **2014**, 344, 1020-3	33.3	91

516	Unique inhibitory synapse with particularly rich endocannabinoid signaling machinery on pyramidal neurons in basal amygdaloid nucleus. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 3059-64	11.5	91
515	Distribution of prepro-nociceptin/orphanin FQ mRNA and its receptor mRNA in developing and adult mouse central nervous systems. *Journal of Comparative Neurology*, **1998**, 399, 139-51	3.4	91
514	Kinase-dead knock-in mouse reveals an essential role of kinase activity of Ca2+/calmodulin-dependent protein kinase IIalpha in dendritic spine enlargement, long-term potentiation, and learning. *Journal of Neuroscience*, **2009**, 29, 7607-18	6.6	90
513	Glutamate transporter GLT-1 is transiently localized on growing axons of the mouse spinal cord before establishing astrocytic expression. *Journal of Neuroscience*, **1998**, 18, 5706-13	6.6	90
512	Defective function of GABA-containing synaptic vesicles in mice lacking the AP-3B clathrin adaptor. *Journal of Cell Biology*, **2004**, 167, 293-302	7.3	89
511	Enzymatic machinery for endocannabinoid biosynthesis associated with calcium stores in glutamatergic axon terminals. *Journal of Neuroscience*, **2008**, 28, 1058-63	6.6	88
510	Cbln1 regulates rapid formation and maintenance of excitatory synapses in mature cerebellar Purkinje cells in vitro and in vivo. *Journal of Neuroscience*, **2008**, 28, 5920-30	6.6	88
509	Neutral amino acid transporter ASCT1 is preferentially expressed in L-Ser-synthetic/storing glial cells in the mouse brain with transient expression in developing capillaries. *Journal of Neuroscience*, **2003**, 23, 550-60	6.6	88
508	Cav1.3 channels control D2-autoreceptor responses via NCS-1 in substantia nigra dopamine neurons. *Brain*, **2014**, 137, 2287-302	11.2	87
507	Spatial diversity in gene expression for VDCCgamma subunit family in developing and adult mouse brains. *Neuroscience Research*, **2005**, 53, 376-83	2.9	86
506	GABAergic inhibition regulates developmental synapse elimination in the cerebellum. *Neuron*, **2012** , 74, 384-96	13.9	85
505	Distinct expression of Cbln family mRNAs in developing and adult mouse brains. *European Journal of Neuroscience*, **2006**, 24, 750-60	3.5	84
504	Differential subcellular recruitment of monoacylglycerol lipase generates spatial specificity of 2-arachidonoyl glycerol signaling during axonal pathfinding. *Journal of Neuroscience*, **2010**, 30, 13992-4007	6.6	83
503	Retrograde endocannabinoid signaling reduces GABAergic synaptic transmission to gonadotropin-releasing hormone neurons. *Endocrinology*, **2010**, 151, 5818-29	4.8	82
502	Expression and distribution of JNK/SAPK-associated scaffold protein JSAP1 in developing and adult mouse brain. *Journal of Neurochemistry*, **2006**, 97, 1431-46	6	82
501	Suppressing aberrant GluN3A expression rescues synaptic and behavioral impairments in Huntington's disease models. *Nature Medicine*, **2013**, 19, 1030-8	50.5	79
500	Synapse formation and clustering of neuroligin-2 in the absence of GABAA receptors. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 13151-6	11.5	79
499	Input-specific intrasynaptic arrangements of ionotropic glutamate receptors and their impact on postsynaptic responses. *Journal of Neuroscience*, **2009**, 29, 12896-908	6.6	78

498	The organisation of spinoparabrachial neurons in the mouse. *Pain*, **2015**, 156, 2061-2071	8	77
497	High level of mGluR7 in the presynaptic active zones of select populations of GABAergic terminals innervating interneurons in the rat hippocampus. *European Journal of Neuroscience*, **2003**, 17, 2503-20	3.5	77
496	Septins promote dendrite and axon development by negatively regulating microtubule stability via HDAC6-mediated deacetylation. *Nature Communications*, **2013**, 4, 2532	17.4	76
495	Key modulatory role of presynaptic adenosine A2A receptors in cortical neurotransmission to the striatal direct pathway. *Scientific World Journal, The*, **2009**, 9, 1321-44	2.2	76
494	Depolarization-induced suppression of inhibition mediated by endocannabinoids at synapses from fast-spiking interneurons to medium spiny neurons in the striatum. *European Journal of Neuroscience*, **2006**, 24, 2246-52	3.5	76
493	Differential roles of glial and neuronal glutamate transporters in Purkinje cell synapses. *Journal of Neuroscience*, **2005**, 25, 8788-93	6.6	76
492	Molecular cloning of rat cDNAs for beta and gamma subtypes of 14-3-3 protein and developmental changes in expression of their mRNAs in the nervous system. *Molecular Brain Research*, **1993**, 17, 135-46		76
491	Heart-type fatty acid binding protein regulates dopamine D2 receptor function in mouse brain. *Journal of Neuroscience*, **2010**, 30, 3146-55	6.6	75
490	Functional coupling between mGluR1 and Cav3.1 T-type calcium channels contributes to parallel fiber-induced fast calcium signaling within Purkinje cell dendritic spines. *Journal of Neuroscience*, **2009**, 29, 9668-82	6.6	75
489	A novel action of stargazin as an enhancer of AMPA receptor activity. *Neuroscience Research*, **2004**, 50, 369-74	2.9	74
488	Dynamic changes in expression of glutamate transporter mRNAs in developing brain. *NeuroReport*, **1996**, 7, 705-9	1.7	74
487	Selective neural pathway targeting reveals key roles of thalamostriatal projection in the control of visual discrimination. *Journal of Neuroscience*, **2011**, 31, 17169-79	6.6	73
486	Monitoring and Updating of Action Selection for Goal-Directed Behavior through the Striatal Direct and Indirect Pathways. *Neuron*, **2018**, 99, 1302-1314.e5	13.9	72
485	Nitric oxide-induced calcium release via ryanodine receptors regulates neuronal function. *EMBO Journal*, **2012**, 31, 417-28	13	72
484	N-ethylmaleimide-sensitive fusion protein (NSF) is involved in central sensitization in the spinal cord through GluR2 subunit composition switch after inflammation. *European Journal of Neuroscience*, **2008**, 27, 3161-70	3.5	72
483	Phospholipase Cbeta4 expression reveals the continuity of cerebellar topography through development. *Journal of Comparative Neurology*, **2007**, 502, 857-71	3.4	72
482	Autoantibodies and cell-mediated autoimmunity to NMDA-type GluRepsilon2 in patients with Rasmussen's encephalitis and chronic progressive epilepsia partialis continua. *Epilepsia*, **2005**, 46 Suppl 5, 152-8	6.4	71
481	Light- and electron-microscopic localization of the glutamate receptor channel delta 2 subunit in the mouse Purkinje cell. *Neuroscience Letters*, **1995**, 188, 89-92	3.3	71

480	Differential distributions of the NMDA receptor channel subunit mRNAs in the mouse retina. *Brain Research*, **1994**, 634, 328-32	3.7	71
479	Molecular architecture of endocannabinoid signaling at nociceptive synapses mediating analgesia. *European Journal of Neuroscience*, **2009**, 29, 1964-78	3.5	70
478	Differential regulation of synaptic plasticity and cerebellar motor learning by the C-terminal PDZ-binding motif of GluRdelta2. *Journal of Neuroscience*, **2008**, 28, 1460-8	6.6	70
477	Axonal motility and its modulation by activity are branch-type specific in the intact adult cerebellum. *Neuron*, **2007**, 56, 472-87	13.9	69
476	Molecular and morphological configuration for 2-arachidonoylglycerol-mediated retrograde signaling at mossy cell-granule cell synapses in the dentate gyrus. *Journal of Neuroscience*, **2011**, 31, 7700-14	6.6	68
475	Involvement of nitric oxide in depolarization-induced suppression of inhibition in hippocampal pyramidal cells during activation of cholinergic receptors. *Journal of Neuroscience*, **2007**, 27, 10211-22	6.6	68
474	Enhancement of hippocampal LTP, reference memory and sensorimotor gating in mutant mice lacking a telencephalon-specific cell adhesion molecule. *European Journal of Neuroscience*, **2001**, 13, 179-89	3.5	68
473	Molecular cloning of rat cDNAs for the zeta and theta subtypes of 14-3-3 protein and differential distributions of their mRNAs in the brain. *Molecular Brain Research*, **1994**, 25, 113-21		68
472	TARPs gamma-2 and gamma-7 are essential for AMPA receptor expression in the cerebellum. *European Journal of Neuroscience*, **2010**, 31, 2204-20	3.5	67
471	Retrograde BDNF to TrkB signaling promotes synapse elimination in the developing cerebellum. *Nature Communications*, **2017**, 8, 195	17.4	66
470	Activation of type 5 metabotropic glutamate receptors and diacylglycerol lipase-□nitiates 2-arachidonoylglycerol formation and endocannabinoid-mediated analgesia. *Journal of Neuroscience*, **2012**, 32, 9457-68	6.6	66
469	Deletions in GRID2 lead to a recessive syndrome of cerebellar ataxia and tonic upgaze in humans. *Neurology*, **2013**, 81, 1378-86	6.5	66
468	NMDA receptors in hippocampal GABAergic synapses and their role in nitric oxide signaling. *Journal of Neuroscience*, **2011**, 31, 5893-904	6.6	66
467	NMDA receptor subunits GluRepsilon1, GluRepsilon3 and GluRzeta1 are enriched at the mossy fibre-granule cell synapse in the adult mouse cerebellum. *European Journal of Neuroscience*, **2001**, 13, 2025-36	3.5	66
466	Functional differences between neurochemically defined populations of inhibitory interneurons in the rat spinal dorsal horn. *Pain*, **2013**, 154, 2606-2615	8	65
465	Cytological compartmentalization in the staggerer cerebellum, as revealed by calbindin immunohistochemistry for Purkinje cells. *Journal of Comparative Neurology*, **1998**, 395, 112-20	3.4	65
464	Postsynaptic modulation of AMPA receptor-mediated synaptic responses and LTP by the type 3 ryanodine receptor. *Molecular and Cellular Neurosciences*, **2001**, 17, 921-30	4.8	65
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