

# Kouichi Hashimoto

## List of Publications by Year in descending order

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91  
papers

9,290  
citations

38720

50  
h-index

51562

86  
g-index

94  
all docs

94  
docs citations

94  
times ranked

7889  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-mobility group box 1-mediated hippocampal microglial activation induces cognitive impairment in mice with neuropathic pain. <i>Experimental Neurology</i> , 2022, 355, 114146.	2.0	14
2	Kv11 ( <i>etherâ€goâ€related gene</i> ) voltageâ€dependent K <sup>+</sup> channels promote resonance and oscillation of subthreshold membrane potentials. <i>Journal of Physiology</i> , 2021, 599, 547-569.	1.3	7
3	An Autism-Associated Neuroligin-3 Mutation Affects Developmental Synapse Elimination in the Cerebellum. <i>Frontiers in Neural Circuits</i> , 2021, 15, 676891.	1.4	11
4	Different cholinergic cell groups in the basal forebrain regulate social interaction and social recognition memory. <i>Scientific Reports</i> , 2021, 11, 13589.	1.6	11
5	Spike firing attenuation of serotonin neurons in learned helplessness rats is reversed by ketamine. <i>Brain Communications</i> , 2021, 3, fcab285.	1.5	2
6	Mechanisms for the resonant property in rodent neurons. <i>Neuroscience Research</i> , 2020, 156, 5-13.	1.0	4
7	Zonisamide can ameliorate the voltage-dependence alteration of the T-type calcium channel CaV3.1 caused by a mutation responsible for spinocerebellar ataxia. <i>Molecular Brain</i> , 2020, 13, 163.	1.3	3
8	Component of nicotine-induced intracellular calcium elevation mediated through $\alpha$ 3- and $\alpha$ 5-containing nicotinic acetylcholine receptors are regulated by cyclic AMP in SH-SY 5Y cells. <i>PLoS ONE</i> , 2020, 15, e0242349.	1.1	2
9	Title is missing!. , 2020, 15, e0242349.		0
10	Title is missing!. , 2020, 15, e0242349.		0
11	Title is missing!. , 2020, 15, e0242349.		0
12	Title is missing!. , 2020, 15, e0242349.		0
13	mGluR1 in cerebellar Purkinje cells is essential for the formation but not expression of associative eyeblink memory. <i>Scientific Reports</i> , 2019, 9, 7353.	1.6	10
14	Hyperactivation of mTORC1 disrupts cellular homeostasis in cerebellar Purkinje cells. <i>Scientific Reports</i> , 2019, 9, 2799.	1.6	15
15	Taskâ€dependent function of striatal cholinergic interneurons in behavioural flexibility. <i>European Journal of Neuroscience</i> , 2018, 47, 1174-1183.	1.2	18
16	Microglia permit climbing fiber elimination by promoting GABAergic inhibition in the developing cerebellum. <i>Nature Communications</i> , 2018, 9, 2830.	5.8	58
17	The anatomical pathway from the mesodiencephalic junction to the inferior olive relays perioral sensory signals to the cerebellum in the mouse. <i>Journal of Physiology</i> , 2018, 596, 3775-3791.	1.3	22
18	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.	3.3	54

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19	Serotonin rebalances cortical tuning and behavior linked to autism symptoms in 15q11-13 CNV mice. <i>Science Advances</i> , 2017, 3, e1603001.	4.7	64
20	Synaptogenesis and Synapse Elimination in Developing Cerebellum. , 2016, , 161-165.		0
21	Ionic Basis for Membrane Potential Resonance in Neurons of the Inferior Olive. <i>Cell Reports</i> , 2016, 16, 994-1004.	2.9	32
22	The Metabotropic Glutamate Receptor Subtype 1 Mediates Experience-Dependent Maintenance of Mature Synaptic Connectivity in the Visual Thalamus. <i>Neuron</i> , 2016, 91, 1097-1109.	3.8	30
23	CAPS1 RNA Editing Promotes Dense Core Vesicle Exocytosis. <i>Cell Reports</i> , 2016, 17, 2004-2014.	2.9	33
24	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, 2282-2287.	3.3	66
25	A mutation in the low voltage-gated calcium channel CACNA1G alters the physiological properties of the channel, causing spinocerebellar ataxia. <i>Molecular Brain</i> , 2015, 8, 89.	1.3	80
26	A CDC42EP4/septin-based perisynaptic glial scaffold facilitates glutamate clearance. <i>Nature Communications</i> , 2015, 6, 10090.	5.8	21
27	Self-Organization of Polarized Cerebellar Tissue in 3D Culture of Human Pluripotent Stem Cells. <i>Cell Reports</i> , 2015, 10, 537-550.	2.9	531
28	Cerebellar plasticity and motor learning deficits in a copy-number variation mouse model of autism. <i>Nature Communications</i> , 2014, 5, 5586.	5.8	144
29	The Synaptic Targeting of mGluR1 by Its Carboxyl-Terminal Domain Is Crucial for Cerebellar Function. <i>Journal of Neuroscience</i> , 2014, 34, 2702-2712.	1.7	71
30	Global Scaling Down of Excitatory Postsynaptic Responses in Cerebellar Purkinje Cells Impairs Developmental Synapse Elimination. <i>Cell Reports</i> , 2014, 8, 1119-1129.	2.9	19
31	Synapse elimination in the developing cerebellum. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 4667-4680.	2.4	118
32	Calcium-dependent regulation of climbing fibre synapse elimination during postnatal cerebellar development. <i>Journal of Physiology</i> , 2013, 591, 3151-3158.	1.3	16
33	Autosomal recessive Andersen-Tawil syndrome with a novel mutation L94P in Kir2.1. <i>Neurology and Clinical Neuroscience</i> , 2013, 1, 131-137.	0.2	8
34	Spike timing-dependent selective strengthening of single climbing fibre inputs to Purkinje cells during cerebellar development. <i>Nature Communications</i> , 2013, 4, 2732.	5.8	35
35	Organotypic Coculture Preparation for the Study of Developmental Synapse Elimination in Mammalian Brain. <i>Journal of Neuroscience</i> , 2012, 32, 11657-11670.	1.7	26
36	Ca <sup>v</sup> 2.1 in Cerebellar Purkinje Cells Regulates Competitive Excitatory Synaptic Wiring, Cell Survival, and Cerebellar Biochemical Compartmentalization. <i>Journal of Neuroscience</i> , 2012, 32, 1311-1328.	1.7	74

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37	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, 12195-12200.	3.3	44
38	GABAergic Inhibition Regulates Developmental Synapse Elimination in the Cerebellum. <i>Neuron</i> , 2012, 74, 384-396.	3.8	90
39	Activity-Dependent Maturation of Climbing Fiber to Purkinje Cell Synapses during Postnatal Cerebellar Development. <i>Cerebellum</i> , 2012, 11, 449-450.	1.4	26
40	Postsynaptic P/Q-type Ca <sup>2+</sup> 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, 9987-9992.	3.3	103
41	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, 6067-6078.	1.7	32
42	Developmental Switching of Perisomatic Innervation from Climbing Fibers to Basket Cell Fibers in Cerebellar Purkinje Cells. <i>Journal of Neuroscience</i> , 2011, 31, 16916-16927.	1.7	52
43	TARPs $\beta 2$ and $\beta 7$ are essential for AMPA receptor expression in the cerebellum. <i>European Journal of Neuroscience</i> , 2010, 31, 2204-2220.	1.2	76
44	The Endocannabinoid 2-Arachidonoylglycerol Produced by Diacylglycerol Lipase $\alpha 2$ Mediates Retrograde Suppression of Synaptic Transmission. <i>Neuron</i> , 2010, 65, 320-327.	3.8	407
45	Synapse elimination in the central nervous system. <i>Current Opinion in Neurobiology</i> , 2009, 19, 154-161.	2.0	161
46	Involvement of NMDAR2A tyrosine phosphorylation in depression-related behaviour. <i>EMBO Journal</i> , 2009, 28, 3717-3729.	3.5	86
47	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, 106-118.	3.8	161
48	Not glutamate but endocannabinoids mediate retrograde suppression of cerebellar parallel fiber to Purkinje cell synaptic transmission in young adult rodents. <i>Neuropharmacology</i> , 2009, 57, 157-163.	2.0	19
49	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, 601-611.	1.1	87
50	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, 2173-2186.	1.8	100
51	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.	1.7	125
52	Motor discoordination of transgenic mice overexpressing a microtubule destabilizer, stathmin, specifically in Purkinje cells. <i>Neuroscience Research</i> , 2007, 59, 93-100.	1.0	13
53	Diminished climbing fiber innervation of Purkinje cells in the cerebellum of myosin Va mutant mice and rats. <i>Developmental Neurobiology</i> , 2007, 67, 909-923.	1.5	39
54	G protein-independent neuromodulatory action of adenosine on metabotropic glutamate signalling in mouse cerebellar Purkinje cells. <i>Journal of Physiology</i> , 2007, 581, 693-708.	1.3	27

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55	Junctophilin-mediated channel crosstalk essential for cerebellar synaptic plasticity. <i>EMBO Journal</i> , 2007, 26, 1924-1933.	3.5	57
56	Involvement of protein-tyrosine phosphatase PTPMEG in motor learning and cerebellar long-term depression. <i>European Journal of Neuroscience</i> , 2007, 26, 2269-2278.	1.2	47
57	Disturbance of cerebellar synaptic maturation in mutant mice lacking BSRPs, a novel brain-specific receptor-like protein family. <i>FEBS Letters</i> , 2006, 580, 4057-4064.	1.3	69
58	Endocannabinoid-mediated short-term suppression of excitatory synaptic transmission to medium spiny neurons in the striatum. <i>Neuroscience Research</i> , 2006, 54, 159-164.	1.0	47
59	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, 2246-2252.	1.2	86
60	Miniature Synaptic Events Elicited by Presynaptic Ca <sup>2+</sup> Rise Are Selectively Suppressed by Cannabinoid Receptor Activation in Cerebellar Purkinje Cells. <i>Journal of Neuroscience</i> , 2006, 26, 86-95.	1.7	64
61	Control of Synaptic Transmission in the CNS Through Endocannabinoid-Mediated Retrograde Signaling. , 2005, , 269-281.		0
62	Postnatal development and synapse elimination of climbing fiber to Purkinje cell projection in the cerebellum. <i>Neuroscience Research</i> , 2005, 53, 221-228.	1.0	102
63	ORP150/HSP12A Regulates Purkinje Cell Survival: A Role for Endoplasmic Reticulum Stress in Cerebellar Development. <i>Journal of Neuroscience</i> , 2004, 24, 1486-1496.	1.7	69
64	P/Q-Type Ca <sup>2+</sup> Channel $\alpha$ 1A Regulates Synaptic Competition on Developing Cerebellar Purkinje Cells. <i>Journal of Neuroscience</i> , 2004, 24, 1734-1743.	1.7	134
65	Ca <sup>2+</sup> 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, 16952-16957.	3.3	104
66	Altered agonist sensitivity and desensitization of neuronal mGluR1 responses in knock-in mice by a single amino acid substitution at the PKC phosphorylation site. <i>European Journal of Neuroscience</i> , 2004, 20, 947-955.	1.2	11
67	Retrograde Modulation of Synaptic Transmission Mediated by Endogenous Cannabinoids. <i>Current Neuropharmacology</i> , 2004, 2, 49-57.	1.4	5
68	Impaired motor coordination in mice lacking neural recognition molecule NB-3 of the contactin/F3 subgroup. <i>Journal of Neurobiology</i> , 2003, 56, 252-265.	3.7	69
69	Functional Differentiation of Multiple Climbing Fiber Inputs during Synapse Elimination in the Developing Cerebellum. <i>Neuron</i> , 2003, 38, 785-796.	3.8	221
70	Motor Discoordination in Mutant Mice Lacking Junctophilin Type 3. <i>Biochemical and Biophysical Research Communications</i> , 2002, 292, 318-324.	1.0	68
71	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, 905-919.	3.8	320
72	The Cannabinoid CB1 Receptor Mediates Retrograde Signals for Depolarization-Induced Suppression of Inhibition in Cerebellar Purkinje Cells. <i>Journal of Neuroscience</i> , 2002, 22, 1690-1697.	1.7	159

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73	Presynaptic Inhibition Caused by Retrograde Signal from Metabotropic Glutamate to Cannabinoid Receptors. <i>Neuron</i> , 2001, 31, 463-475.	3.8	496
74	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, 3085-3091.	1.7	101
75	Roles of Glutamate Receptor $\hat{I}2$ Subunit (GluR $\hat{I}2$ ) and Metabotropic Glutamate Receptor Subtype 1 (mGluR1) in Climbing Fiber Synapse Elimination during Postnatal Cerebellar Development. <i>Journal of Neuroscience</i> , 2001, 21, 9701-9712.	1.7	152
76	Deficient long-term synaptic depression in the rostral cerebellum correlated with impaired motor learning in phospholipase C $\hat{I}24$ mutant mice. <i>European Journal of Neuroscience</i> , 2001, 13, 1945-1954.	1.2	106
77	Roles of Phospholipase C $\hat{I}24$ in Synapse Elimination and Plasticity in Developing and Mature Cerebellum. <i>Molecular Neurobiology</i> , 2001, 23, 69-82.	1.9	40
78	Local Calcium Release in Dendritic Spines Required for Long-Term Synaptic Depression. <i>Neuron</i> , 2000, 28, 233-244.	3.8	233
79	mGluR1 in Cerebellar Purkinje Cells Essential for Long-Term Depression, Synapse Elimination, and Motor Coordination. <i>Science</i> , 2000, 288, 1832-1835.	6.0	396
80	Impairment of AMPA Receptor Function in Cerebellar Granule Cells of Ataxic Mutant Mouse <i>Stargazer</i> . <i>Journal of Neuroscience</i> , 1999, 19, 6027-6036.	1.7	245
81	Corticotropin-Releasing Factor Plays a Permissive Role in Cerebellar Long-Term Depression. <i>Neuron</i> , 1999, 22, 763-775.	3.8	122
82	Presynaptic origin of paired-pulse depression at climbing fibre-Purkinje cell synapses in the rat cerebellum. <i>Journal of Physiology</i> , 1998, 506, 391-405.	1.3	111
83	Motor discoordination and increased susceptibility to cerebellar injury in GLAST mutant mice. <i>European Journal of Neuroscience</i> , 1998, 10, 976-988.	1.2	369
84	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.	13.5	210
85	Phospholipase C $\hat{A}4$ 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, 15724-15729.	3.3	177
86	Persistent Multiple Climbing Fiber Innervation of Cerebellar Purkinje Cells in Mice Lacking mGluR1. <i>Neuron</i> , 1997, 18, 71-79.	3.8	288
87	Impaired Parallel Fiber $\hat{I}2$ Purkinje Cell Synapse Stabilization during Cerebellar Development of Mutant Mice Lacking the Glutamate Receptor $\hat{I}2$ Subunit. <i>Journal of Neuroscience</i> , 1997, 17, 9613-9623.	1.7	271
88	Impaired motor coordination and persistent multiple climbing fiber innervation of cerebellar Purkinje cells in mice lacking G $\hat{A}q$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 14089-14094.	3.3	252
89	204 Pre- and post-synaptic mechanisms of paired pulse depression of climbing fiber to Purkinje cell synapses in the cerebellum. <i>Neuroscience Research</i> , 1996, 25, S30.	1.0	1
90	Impaired synapse elimination during cerebellar development in PKC $\hat{I}3$ mutant mice. <i>Cell</i> , 1995, 83, 1223-1231.	13.5	426

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91	Impaired motor coordination correlates with persistent multiple climbing fiber innervation in PKC $\delta$ mutant mice. Cell, 1995, 83, 1233-1242.	13.5	410