

Kouichi Hashimoto

List of Publications by Year in descending order

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92
papers

9,290
citations

38742

50
h-index

51608

86
g-index

94
all docs

94
docs citations

94
times ranked

7889
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Organization of Polarized Cerebellar Tissue in 3D Culture of Human Pluripotent Stem Cells. <i>Cell Reports</i> , 2015, 10, 537-550.	6.4	531
2	Presynaptic Inhibition Caused by Retrograde Signal from Metabotropic Glutamate to Cannabinoid Receptors. <i>Neuron</i> , 2001, 31, 463-475.	8.1	496
3	Impaired synapse elimination during cerebellar development in PKC δ^3 mutant mice. <i>Cell</i> , 1995, 83, 1223-1231.	28.9	426
4	Impaired motor coordination correlates with persistent multiple climbing fiber innervation in PKC δ^3 mutant mice. <i>Cell</i> , 1995, 83, 1233-1242.	28.9	410
5	The Endocannabinoid 2-Arachidonoylglycerol Produced by Diacylglycerol Lipase α Mediates Retrograde Suppression of Synaptic Transmission. <i>Neuron</i> , 2010, 65, 320-327.	8.1	407
6	mGluR1 in Cerebellar Purkinje Cells Essential for Long-Term Depression, Synapse Elimination, and Motor Coordination. <i>Science</i> , 2000, 288, 1832-1835.	12.6	396
7	Motor discoordination and increased susceptibility to cerebellar injury in GLAST mutant mice. <i>European Journal of Neuroscience</i> , 1998, 10, 976-988.	2.6	369
8	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.	8.1	320
9	Persistent Multiple Climbing Fiber Innervation of Cerebellar Purkinje Cells in Mice Lacking mGluR1. <i>Neuron</i> , 1997, 18, 71-79.	8.1	288
10	Impaired Parallel Fiber α Purkinje Cell Synapse Stabilization during Cerebellar Development of Mutant Mice Lacking the Glutamate Receptor $\beta 2$ Subunit. <i>Journal of Neuroscience</i> , 1997, 17, 9613-9623.	3.6	271
11	Impaired motor coordination and persistent multiple climbing fiber innervation of cerebellar Purkinje cells in mice lacking G α_q . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 14089-14094.	7.1	252
12	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.	3.6	245
13	Local Calcium Release in Dendritic Spines Required for Long-Term Synaptic Depression. <i>Neuron</i> , 2000, 28, 233-244.	8.1	233
14	Functional Differentiation of Multiple Climbing Fiber Inputs during Synapse Elimination in the Developing Cerebellum. <i>Neuron</i> , 2003, 38, 785-796.	8.1	221
15	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.	28.9	210
16	Phospholipase C $\alpha 4$ 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.	7.1	177
17	Synapse elimination in the central nervous system. <i>Current Opinion in Neurobiology</i> , 2009, 19, 154-161.	4.2	161
18	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.	8.1	161

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19	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.	3.6	159
20	Roles of Glutamate Receptor $\hat{2}$ Subunit (GluR $\hat{2}$) 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.	3.6	152
21	Cerebellar plasticity and motor learning deficits in a copy-number variation mouse model of autism. <i>Nature Communications</i> , 2014, 5, 5586.	12.8	144
22	P/Q-Type Ca ²⁺ Channel $\hat{1A}$ Regulates Synaptic Competition on Developing Cerebellar Purkinje Cells. <i>Journal of Neuroscience</i> , 2004, 24, 1734-1743.	3.6	134
23	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.	3.6	125
24	Corticotropin-Releasing Factor Plays a Permissive Role in Cerebellar Long-Term Depression. <i>Neuron</i> , 1999, 22, 763-775.	8.1	122
25	Synapse elimination in the developing cerebellum. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 4667-4680.	5.4	118
26	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.	2.9	111
27	Deficient long-term synaptic depression in the rostral cerebellum correlated with impaired motor learning in phospholipase C $\hat{24}$ mutant mice. <i>European Journal of Neuroscience</i> , 2001, 13, 1945-1954.	2.6	106
28	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, 16952-16957.	7.1	104
29	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, 9987-9992.	7.1	103
30	Postnatal development and synapse elimination of climbing fiber to Purkinje cell projection in the cerebellum. <i>Neuroscience Research</i> , 2005, 53, 221-228.	1.9	102
31	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.	3.6	101
32	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.	4.0	100
33	GABAergic Inhibition Regulates Developmental Synapse Elimination in the Cerebellum. <i>Neuron</i> , 2012, 74, 384-396.	8.1	90
34	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.	2.3	87
35	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.	2.6	86
36	Involvement of NMDAR2A tyrosine phosphorylation in depression-related behaviour. <i>EMBO Journal</i> , 2009, 28, 3717-3729.	7.8	86

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37	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.	2.6	80
38	TARPs β and γ are essential for AMPA receptor expression in the cerebellum. <i>European Journal of Neuroscience</i> , 2010, 31, 2204-2220.	2.6	76
39	Ca ²⁺ in Cerebellar Purkinje Cells Regulates Competitive Excitatory Synaptic Wiring, Cell Survival, and Cerebellar Biochemical Compartmentalization. <i>Journal of Neuroscience</i> , 2012, 32, 1311-1328.	3.6	74
40	The Synaptic Targeting of mGluR1 by Its Carboxyl-Terminal Domain Is Crucial for Cerebellar Function. <i>Journal of Neuroscience</i> , 2014, 34, 2702-2712.	3.6	71
41	Impaired motor coordination in mice lacking neural recognition molecule β of the contactin/F3 subgroup. <i>Journal of Neurobiology</i> , 2003, 56, 252-265.	3.6	69
42	ORP150/HSP12A Regulates Purkinje Cell Survival: A Role for Endoplasmic Reticulum Stress in Cerebellar Development. <i>Journal of Neuroscience</i> , 2004, 24, 1486-1496.	3.6	69
43	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.	2.8	69
44	Motor Discoordination in Mutant Mice Lacking Junctophilin Type 3. <i>Biochemical and Biophysical Research Communications</i> , 2002, 292, 318-324.	2.1	68
45	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.	7.1	66
46	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.	3.6	64
47	Serotonin rebalances cortical tuning and behavior linked to autism symptoms in 15q11-13 CNV mice. <i>Science Advances</i> , 2017, 3, e1603001.	10.3	64
48	Microglia permit climbing fiber elimination by promoting GABAergic inhibition in the developing cerebellum. <i>Nature Communications</i> , 2018, 9, 2830.	12.8	58
49	Junctophilin-mediated channel crosstalk essential for cerebellar synaptic plasticity. <i>EMBO Journal</i> , 2007, 26, 1924-1933.	7.8	57
50	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.	7.1	54
51	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.	3.6	52
52	Endocannabinoid-mediated short-term suppression of excitatory synaptic transmission to medium spiny neurons in the striatum. <i>Neuroscience Research</i> , 2006, 54, 159-164.	1.9	47
53	Involvement of protein-tyrosine phosphatase PTPMEG in motor learning and cerebellar long-term depression. <i>European Journal of Neuroscience</i> , 2007, 26, 2269-2278.	2.6	47
54	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.	7.1	44

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55	Roles of Phospholipase C β 24 in Synapse Elimination and Plasticity in Developing and Mature Cerebellum. <i>Molecular Neurobiology</i> , 2001, 23, 69-82.	4.0	40
56	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.	3.0	39
57	Spike timing-dependent selective strengthening of single climbing fibre inputs to Purkinje cells during cerebellar development. <i>Nature Communications</i> , 2013, 4, 2732.	12.8	35
58	CAPS1 RNA Editing Promotes Dense Core Vesicle Exocytosis. <i>Cell Reports</i> , 2016, 17, 2004-2014.	6.4	33
59	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.	3.6	32
60	Ionic Basis for Membrane Potential Resonance in Neurons of the Inferior Olive. <i>Cell Reports</i> , 2016, 16, 994-1004.	6.4	32
61	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.	8.1	30
62	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.	2.9	27
63	Organotypic Coculture Preparation for the Study of Developmental Synapse Elimination in Mammalian Brain. <i>Journal of Neuroscience</i> , 2012, 32, 11657-11670.	3.6	26
64	Activity-Dependent Maturation of Climbing Fiber to Purkinje Cell Synapses during Postnatal Cerebellar Development. <i>Cerebellum</i> , 2012, 11, 449-450.	2.5	26
65	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.	2.9	22
66	A CDC42EP4/septin-based perisynaptic glial scaffold facilitates glutamate clearance. <i>Nature Communications</i> , 2015, 6, 10090.	12.8	21
67	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.	4.1	19
68	Global Scaling Down of Excitatory Postsynaptic Responses in Cerebellar Purkinje Cells Impairs Developmental Synapse Elimination. <i>Cell Reports</i> , 2014, 8, 1119-1129.	6.4	19
69	Task-dependent function of striatal cholinergic interneurons in behavioural flexibility. <i>European Journal of Neuroscience</i> , 2018, 47, 1174-1183.	2.6	18
70	Calcium-dependent regulation of climbing fibre synapse elimination during postnatal cerebellar development. <i>Journal of Physiology</i> , 2013, 591, 3151-3158.	2.9	16
71	Hyperactivation of mTORC1 disrupts cellular homeostasis in cerebellar Purkinje cells. <i>Scientific Reports</i> , 2019, 9, 2799.	3.3	15
72	High-mobility group box 1-mediated hippocampal microglial activation induces cognitive impairment in mice with neuropathic pain. <i>Experimental Neurology</i> , 2022, 355, 114146.	4.1	14

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73	Motor discoordination of transgenic mice overexpressing a microtubule destabilizer, stathmin, specifically in Purkinje cells. <i>Neuroscience Research</i> , 2007, 59, 93-100.	1.9	13
74	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.	2.6	11
75	An Autism-Associated Neuroligin-3 Mutation Affects Developmental Synapse Elimination in the Cerebellum. <i>Frontiers in Neural Circuits</i> , 2021, 15, 676891.	2.8	11
76	Different cholinergic cell groups in the basal forebrain regulate social interaction and social recognition memory. <i>Scientific Reports</i> , 2021, 11, 13589.	3.3	11
77	mGluR1 in cerebellar Purkinje cells is essential for the formation but not expression of associative eyeblink memory. <i>Scientific Reports</i> , 2019, 9, 7353.	3.3	10
78	Autosomal recessive Andersen-Tawil syndrome with a novel mutation L94P in Kir2.1. <i>Neurology and Clinical Neuroscience</i> , 2013, 1, 131-137.	0.4	8
79	Kv11 (ether A-go-related gene) voltage-dependent K ⁺ channels promote resonance and oscillation of subthreshold membrane potentials. <i>Journal of Physiology</i> , 2021, 599, 547-569.	2.9	7
80	Retrograde Modulation of Synaptic Transmission Mediated by Endogenous Cannabinoids. <i>Current Neuropharmacology</i> , 2004, 2, 49-57.	2.9	5
81	Mechanisms for the resonant property in rodent neurons. <i>Neuroscience Research</i> , 2020, 156, 5-13.	1.9	4
82	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.	2.6	3
83	Component of nicotine-induced intracellular calcium elevation mediated through α 3- and α 5-containing nicotinic acetylcholine receptors are regulated by cyclic AMP in SH-SY 5Y cells. <i>PLoS ONE</i> , 2020, 15, e0242349.	2.5	2
84	Spike firing attenuation of serotonin neurons in learned helplessness rats is reversed by ketamine. <i>Brain Communications</i> , 2021, 3, fcab285.	3.3	2
85	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.	1.9	1
86	Control of Synaptic Transmission in the CNS Through Endocannabinoid-Mediated Retrograde Signaling. , 2005, , 269-281.		0
87	Synaptogenesis and Synapse Elimination in Developing Cerebellum. , 2016, , 161-165.		0
88	Poster Session B. <i>Keio Journal of Medicine</i> , 1997, 46, A108-A119.	1.1	0
89	Title is missing!. , 2020, 15, e0242349.		0
90	Title is missing!. , 2020, 15, e0242349.		0

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91	Title is missing!. , 2020, 15, e0242349.		0
92	Title is missing!. , 2020, 15, e0242349.		0