

Kazuto Kobayashi

List of Publications by Year in descending order

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114
papers

4,772
citations

101496

36
h-index

123376

61
g-index

124
all docs

124
docs citations

124
times ranked

6475
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic dissection of the circuit for hand dexterity in primates. <i>Nature</i> , 2012, 487, 235-238.	13.7	218
2	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
3	Targeted Disruption of the Tyrosine Hydroxylase Locus Results in Severe Catecholamine Depletion and Perinatal Lethality in Mice. <i>Journal of Biological Chemistry</i> , 1995, 270, 27235-27243.	1.6	193
4	Dynamics of tyrosine hydroxylase promoter activity during midbrain dopaminergic neuron development. <i>Journal of Neurochemistry</i> , 2002, 82, 295-304.	2.1	183
5	Structure of the Human Tyrosine Hydroxylase Gene: Alternative Splicing from a Single Gene Accounts for Generation of Four mRNA Types ¹ . <i>Journal of Biochemistry</i> , 1988, 103, 907-912.	0.9	139
6	A Lentiviral Strategy for Highly Efficient Retrograde Gene Transfer by Pseudotyping with Fusion Envelope Glycoprotein. <i>Human Gene Therapy</i> , 2011, 22, 197-206.	1.4	132
7	Distinct neural mechanisms for the control of thirst and salt appetite in the subfornical organ. <i>Nature Neuroscience</i> , 2017, 20, 230-241.	7.1	131
8	Monitoring and Updating of Action Selection for Goal-Directed Behavior through the Striatal Direct and Indirect Pathways. <i>Neuron</i> , 2018, 99, 1302-1314.e5.	3.8	131
9	Dopamine β -hydroxylase: two polymorphisms in linkage disequilibrium at the structural gene DBH associate with biochemical phenotypic variation. <i>Human Genetics</i> , 1998, 102, 533-540.	1.8	127
10	Population genetics of a functional variant of the dopamine β -hydroxylase gene (DBH)., 1997, 74, 374-379.		104
11	Transcranial direct-current stimulation increases extracellular dopamine levels in the rat striatum. <i>Frontiers in Systems Neuroscience</i> , 2013, 7, 6.	1.2	103
12	Human tyrosine hydroxylase in Parkinson's disease and in related disorders. <i>Journal of Neural Transmission</i> , 2019, 126, 397-409.	1.4	102
13	Dopamine synapse is a neuroligin-2-mediated contact between dopaminergic presynaptic and GABAergic postsynaptic structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4206-4211.	3.3	99
14	Causal Link between the Cortico-Rubral Pathway and Functional Recovery through Forced Impaired Limb Use in Rats with Stroke. <i>Journal of Neuroscience</i> , 2016, 36, 455-467.	1.7	88
15	Dissecting the circuit for blindsight to reveal the critical role of pulvinar and superior colliculus. <i>Nature Communications</i> , 2019, 10, 135.	5.8	87
16	Phosphoproteomics of the Dopamine Pathway Enables Discovery of Rap1 Activation as a Reward Signal In Vivo. <i>Neuron</i> , 2016, 89, 550-565.	3.8	81
17	Selective Neural Pathway Targeting Reveals Key Roles of Thalamostriatal Projection in the Control of Visual Discrimination. <i>Journal of Neuroscience</i> , 2011, 31, 17169-17179.	1.7	80
18	Contribution of propriospinal neurons to recovery of hand dexterity after corticospinal tract lesions in monkeys. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 604-609.	3.3	80

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19	Role of Catecholamine Signaling in Brain and Nervous System Functions: New Insights from Mouse Molecular Genetic Study. <i>Journal of Investigative Dermatology Symposium Proceedings</i> , 2001, 6, 115-121.	0.8	79
20	Survival of Developing Motor Neurons Mediated by Rho GTPase Signaling Pathway through Rho-Kinase. <i>Journal of Neuroscience</i> , 2004, 24, 3480-3488.	1.7	79
21	Conditional Ablation of Striatal Neuronal Types Containing Dopamine D2 Receptor Disturbs Coordination of Basal Ganglia Function. <i>Journal of Neuroscience</i> , 2003, 23, 9078-9088.	1.7	75
22	Differential roles of dopamine D1 and D2 receptor-containing neurons of the nucleus accumbens shell in behavioral sensitization. <i>Journal of Neurochemistry</i> , 2015, 135, 1232-1241.	2.1	73
23	Enhanced flexibility of place discrimination learning by targeting striatal cholinergic interneurons. <i>Nature Communications</i> , 2014, 5, 3778.	5.8	71
24	[Na ⁺] Increases in Body Fluids Sensed by Central Nax Induce Sympathetically Mediated Blood Pressure Elevations via H ⁺ -Dependent Activation of ASIC1a. <i>Neuron</i> , 2019, 101, 60-75.e6.	3.8	70
25	Impaired cortico-striatal excitatory transmission triggers epilepsy. <i>Nature Communications</i> , 2019, 10, 1917.	5.8	68
26	Efficient Gene Transfer via Retrograde Transport in Rodent and Primate Brains Using a Human Immunodeficiency Virus Type 1-Based Vector Pseudotyped with Rabies Virus Glycoprotein. <i>Human Gene Therapy</i> , 2007, 18, 1141-1152.	1.4	66
27	Neuron-Specific Gene Transfer Through Retrograde Transport of Lentiviral Vector Pseudotyped with a Novel Type of Fusion Envelope Glycoprotein. <i>Human Gene Therapy</i> , 2011, 22, 1511-1523.	1.4	66
28	Macaques Exhibit Implicit Gaze Bias Anticipating Others' False-Belief-Driven Actions via Medial Prefrontal Cortex. <i>Cell Reports</i> , 2020, 30, 4433-4444.e5.	2.9	66
29	Modest Neuropsychological Deficits Caused by Reduced Noradrenaline Metabolism in Mice Heterozygous for a Mutated Tyrosine Hydroxylase Gene. <i>Journal of Neuroscience</i> , 2000, 20, 2418-2426.	1.7	59
30	Skeletal muscle-specific HMG-CoA reductase knockout mice exhibit rhabdomyolysis: A model for statin-induced myopathy. <i>Biochemical and Biophysical Research Communications</i> , 2015, 466, 536-540.	1.0	59
31	Action Selection and Flexible Switching Controlled by the Intralaminar Thalamic Neurons. <i>Cell Reports</i> , 2018, 22, 2370-2382.	2.9	57
32	The bHLH transcription factor Hand2 is essential for the maintenance of noradrenergic properties in differentiated sympathetic neurons. <i>Developmental Biology</i> , 2009, 329, 191-200.	0.9	55
33	Improved transduction efficiency of a lentiviral vector for neuron-specific retrograde gene transfer by optimizing the junction of fusion envelope glycoprotein. <i>Journal of Neuroscience Methods</i> , 2014, 227, 151-158.	1.3	53
34	Distinct roles of basal forebrain cholinergic neurons in spatial and object recognition memory. <i>Scientific Reports</i> , 2015, 5, 13158.	1.6	50
35	Different Effects of Eicosapentaenoic and Docosahexaenoic Acids on Atherogenic High-Fat Diet-Induced Non-Alcoholic Fatty Liver Disease in Mice. <i>PLoS ONE</i> , 2016, 11, e0157580.	1.1	50
36	Survival of corticostriatal neurons by Rho/Rho-kinase signaling pathway. <i>Neuroscience Letters</i> , 2016, 630, 45-52.	1.0	46

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37	Highly Efficient Retrograde Gene Transfer into Motor Neurons by a Lentiviral Vector Pseudotyped with Fusion Glycoprotein. <i>PLoS ONE</i> , 2013, 8, e75896.	1.1	44
38	Motor and learning dysfunction during postnatal development in mice defective in dopamine neuronal transmission. , 1998, 54, 450-464.		43
39	Viral vector-mediated selective and reversible blockade of the pathway for visual orienting in mice. <i>Frontiers in Neural Circuits</i> , 2013, 7, 162.	1.4	38
40	Analysis of the human tyrosine hydroxylase promoter-chloramphenicol acetyltransferase chimeric gene expression in transgenic mice. <i>Molecular Brain Research</i> , 1992, 16, 274-286.	2.5	37
41	Involvement of mesolimbic dopaminergic network in neuropathic pain relief by treadmill exercise. <i>Molecular Pain</i> , 2016, 12, 174480691668156.	1.0	37
42	Segregated Excitatoryâ€“Inhibitory Recurrent Subnetworks in Layer 5 of the Rat Frontal Cortex. <i>Cerebral Cortex</i> , 2017, 27, 5846-5857.	1.6	36
43	Dissecting the Tectal Output Channels for Orienting and Defense Responses. <i>ENeuro</i> , 2020, 7, ENEURO.0271-20.2020.	0.9	33
44	Molecular genetics of tyrosine 3-monoxygenase and inherited diseases. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 267-270.	1.0	32
45	Immunotoxin-Mediated Tract Targeting in the Primate Brain: Selective Elimination of the Cortico-Subthalamic â€œHyperdirectâ€•Pathway. <i>PLoS ONE</i> , 2012, 7, e39149.	1.1	31
46	Hyperlipidemia and hepatitis in liver-specific CREB3L3 knockout mice generated using a one-step CRISPR/Cas9 system. <i>Scientific Reports</i> , 2016, 6, 27857.	1.6	31
47	Double Virus Vector Infection to the Prefrontal Network of the Macaque Brain. <i>PLoS ONE</i> , 2015, 10, e0132825.	1.1	31
48	Striatal Indirect Pathway Contributes to Selection Accuracy of Learned Motor Actions. <i>Journal of Neuroscience</i> , 2012, 32, 13421-13432.	1.7	30
49	Motor skills mediated through cerebellothalamic tracts projecting to the central lateral nucleus. <i>Molecular Brain</i> , 2019, 12, 13.	1.3	30
50	The 5â€²-flanking region of the human dopamine β -hydroxylase gene promotes neuron subtype-specific gene expression in the central nervous system of transgenic mice. <i>Molecular Brain Research</i> , 1993, 17, 239-244.	2.5	29
51	Subthalamic Neurons Coordinate Basal Ganglia Function through Differential Neural Pathways. <i>Journal of Neuroscience</i> , 2005, 25, 7743-7753.	1.7	27
52	Involvement of Cholinergic System in Hyperactivity in Dopamine-Deficient Mice. <i>Neuropsychopharmacology</i> , 2015, 40, 1141-1150.	2.8	27
53	Genetic evidence for noradrenergic control of long-term memory consolidation. <i>Brain and Development</i> , 2001, 23, S16-S23.	0.6	26
54	The Central Noradrenaline System and Memory Consolidation. <i>Neuroscientist</i> , 2001, 7, 371-376.	2.6	26

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55	Simultaneous visualization of extrinsic and intrinsic axon collaterals in Golgi-like detail for mouse corticothalamic and corticocortical cells: a double viral infection method. <i>Frontiers in Neural Circuits</i> , 2014, 8, 110.	1.4	26
56	Using a novel PV-Cre rat model to characterize pallidonigral cells and their terminations. <i>Brain Structure and Function</i> , 2017, 222, 2359-2378.	1.2	25
57	Altering Entry Site Preference of Lentiviral Vectors into Neuronal Cells by Pseudotyping with Envelope Glycoproteins. <i>Methods in Molecular Biology</i> , 2016, 1382, 175-186.	0.4	22
58	Effect of sodium-glucose cotransporter 2 (SGLT2) inhibition on weight loss is partly mediated by liver-brain-adipose neurocircuitry. <i>Biochemical and Biophysical Research Communications</i> , 2017, 493, 40-45.	1.0	22
59	Neurotransmitter identity and electrophysiological phenotype are genetically coupled in midbrain dopaminergic neurons. <i>Scientific Reports</i> , 2018, 8, 13637.	1.6	21
60	Glucocorticoid receptor suppresses gene expression of Rev ϵ (Nr1d1) through interaction with the CLOCK complex. <i>FEBS Letters</i> , 2019, 593, 423-432.	1.3	21
61	A Novel Birthdate-Labeling Method Reveals Segregated Parallel Projections of Mitral and External Tufted Cells in the Main Olfactory System. <i>ENeuro</i> , 2019, 6, ENEURO.0234-19.2019.	0.9	21
62	Fate of transient catecholaminergic cell types revealed by site-specific recombination in transgenic mice. <i>Journal of Neuroscience Research</i> , 2004, 78, 7-15.	1.3	20
63	Identification of human ELOVL5 enhancer regions controlled by SREBP. <i>Biochemical and Biophysical Research Communications</i> , 2015, 465, 857-863.	1.0	20
64	The use of an optimized chimeric envelope glycoprotein enhances the efficiency of retrograde gene transfer of a pseudotyped lentiviral vector in the primate brain. <i>Neuroscience Research</i> , 2017, 120, 45-52.	1.0	20
65	The Emergence of a Stable Neuronal Ensemble from a Wider Pool of Activated Neurons in the Dorsal Medial Prefrontal Cortex during Appetitive Learning in Mice. <i>Journal of Neuroscience</i> , 2020, 40, 395-410.	1.7	20
66	Dopaminergic Signaling in the Nucleus Accumbens Modulates Stress-Coping Strategies during Inescapable Stress. <i>Journal of Neuroscience</i> , 2020, 40, 7241-7254.	1.7	20
67	Absence of Elov6 attenuates steatohepatitis but promotes gallstone formation in a lithogenic diet-fed Ldlr \sim / \sim mouse model. <i>Scientific Reports</i> , 2015, 5, 17604.	1.6	20
68	Striatal direct pathway modulates response time in execution of visual discrimination. <i>European Journal of Neuroscience</i> , 2012, 35, 784-797.	1.2	19
69	Pseudotyped Lentiviral Vectors for Retrograde Gene Delivery into Target Brain Regions. <i>Frontiers in Neuroanatomy</i> , 2017, 11, 65.	0.9	19
70	Task-dependent function of striatal cholinergic interneurons in behavioural flexibility. <i>European Journal of Neuroscience</i> , 2018, 47, 1174-1183.	1.2	18
71	Chemogenetic inactivation reveals the inhibitory control function of the prefronto-striatal pathway in the macaque brain. <i>Communications Biology</i> , 2021, 4, 1088.	2.0	18
72	Up-regulation of dopamine D1 receptor in the hippocampus after establishment of conditioned place preference by cocaine. <i>Neuropharmacology</i> , 2011, 61, 842-848.	2.0	17

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73	Methylglyoxal (MG) and Cerebro-Renal Interaction: Does Long-Term Orally Administered MG Cause Cognitive Impairment in Normal Sprague-Dawley Rats?. <i>Toxins</i> , 2014, 6, 254-269.	1.5	17
74	Visualization of Cortical Projection Neurons with Retrograde TET-Off Lentiviral Vector. <i>PLoS ONE</i> , 2012, 7, e46157.	1.1	17
75	Dopamine deficiency in mice. <i>Brain and Development</i> , 2000, 22, 54-60.	0.6	16
76	Neuronal circuits and physiological roles of the basal ganglia in terms of transmitters, receptors and related disorders. <i>Journal of Physiological Sciences</i> , 2016, 66, 435-446.	0.9	16
77	Ablation of <i>Elovl6</i> protects pancreatic islets from high-fat diet-induced impairment of insulin secretion. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 318-323.	1.0	15
78	Distinct CCK-positive SFO neurons are involved in persistent or transient suppression of water intake. <i>Nature Communications</i> , 2020, 11, 5692.	5.8	15
79	Dissecting circuit mechanisms by genetic manipulation of specific neural pathways. <i>Reviews in the Neurosciences</i> , 2013, 24, 1-8.	1.4	14
80	Genetic manipulation of specific neural circuits by use of a viral vector system. <i>Journal of Neural Transmission</i> , 2018, 125, 67-75.	1.4	14
81	Autonomic neuropathy in transgenic mice caused by immunotoxin targeting of the peripheral nervous system. , 1998, 51, 162-173.		12
82	Direct imaging of phosphorylation-dependent conformational change and DNA binding of CREB by electron microscopy. <i>Genes To Cells</i> , 2000, 5, 515-522.	0.5	12
83	Avian sarcoma leukosis virus receptor-envelope system for simultaneous dissection of multiple neural circuits in mammalian brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2947-E2956.	3.3	12
84	A note on retrograde gene transfer efficiency and inflammatory response of lentiviral vectors pseudotyped with FuG-E vs. FuG-B2 glycoproteins. <i>Scientific Reports</i> , 2019, 9, 3567.	1.6	12
85	Elucidating information processing in primate basal ganglia circuitry: a novel technique for pathway-selective ablation mediated by immunotoxin. <i>Frontiers in Neural Circuits</i> , 2013, 7, 140.	1.4	11
86	Malondialdehyde-modified LDL-related variables are associated with diabetic kidney disease in type 2 diabetes. <i>Diabetes Research and Clinical Practice</i> , 2018, 141, 237-243.	1.1	11
87	Enhancement of the transduction efficiency of a lentiviral vector for neuron-specific retrograde gene delivery through the point mutation of fusion glycoprotein type E. <i>Journal of Neuroscience Methods</i> , 2019, 311, 147-155.	1.3	11
88	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
89	Rho/Rho-kinase signaling pathway controls axon patterning of a specified subset of cranial motor neurons. <i>European Journal of Neuroscience</i> , 2011, 33, 612-621.	1.2	10
90	Pseudotyped lentiviral vectors for tract-targeting and application for the functional control of selective neural circuits. <i>Journal of Neuroscience Methods</i> , 2020, 344, 108854.	1.3	10

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91	Maternal dietary imbalance between omega-6 and omega-3 fatty acids triggers the offspring's overeating in mice. <i>Communications Biology</i> , 2020, 3, 473.	2.0	10
92	Enhanced Retrieval of Taste Associative Memory by Chemogenetic Activation of Locus Coeruleus Norepinephrine Neurons. <i>Journal of Neuroscience</i> , 2020, 40, 8367-8385.	1.7	10
93	A candidate functional SNP rs7074440 in TCF7L2 alters gene expression through FOS in hepatocytes. <i>FEBS Letters</i> , 2018, 592, 422-433.	1.3	9
94	Effects of storytelling on the childhood brain: near-infrared spectroscopic comparison with the effects of picture-book reading. <i>Fukushima Journal of Medical Sciences</i> , 2018, 64, 125-132.	0.1	9
95	Efficient ablation by immunotoxin-mediated cell targeting of the cell types that express human interleukin-2 receptor depending on the internal ribosome entry site. <i>Journal of Gene Medicine</i> , 2001, 3, 505-510.	1.4	8
96	Altered gene expression in the subdivisions of the amygdala of Fyn-deficient mice as revealed by laser capture microdissection and mKIAA cDNA array analysis. <i>Brain Research</i> , 2006, 1073-1074, 60-70.	1.1	8
97	Guidance cues from the embryonic dorsal spinal cord chemoattract dorsal root ganglion axons. <i>NeuroReport</i> , 2007, 18, 1645-1649.	0.6	8
98	Transient silencing of synaptic transmitter release from specific neuronal types by recombinant tetanus toxin light chain fused to antibody variable region. <i>Journal of Neuroscience Methods</i> , 2008, 175, 125-132.	1.3	8
99	Tyrosine Hydroxylase. , 2012, , 45-47.		8
100	Controlled cell targeting system to study the brain neural circuitry. <i>Neuroscience Research</i> , 2007, 58, 118-123.	1.0	7
101	Transcriptional and structural plasticity of tyrosine hydroxylase expressing neurons in both striatum and nucleus accumbens following dopaminergic denervation. <i>Journal of Chemical Neuroanatomy</i> , 2014, 61-62, 169-175.	1.0	7
102	Light/dark phase-dependent spontaneous activity is maintained in dopamine-deficient mice. <i>Molecular Brain</i> , 2017, 10, 49.	1.3	7
103	Ras-like Gem GTPase induced by Npas4 promotes activity-dependent neuronal tolerance for ischemic stroke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	7
104	Mouse liaison for integrative brain research. <i>Neuroscience Research</i> , 2007, 58, 103-104.	1.0	6
105	Circulating Malondialdehyde-Modified LDL-Related Variables and Coronary Artery Stenosis in Asymptomatic Patients with Type 2 Diabetes. <i>Journal of Diabetes Research</i> , 2015, 2015, 1-8.	1.0	6
106	The hypothalamus to brainstem circuit suppresses late-onset body weight gain. <i>Scientific Reports</i> , 2019, 9, 18360.	1.6	6
107	Functional Circuitry Analysis in Rodents Using Neurotoxins/Immunotoxins. <i>Neuromethods</i> , 2012, , 193-205.	0.2	5
108	Thalamostriatal System Controls the Acquisition, Performance, and Flexibility of Learning Behavior. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 729389.	1.2	5

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109	Increase in excitability of hippocampal neurons during novelty-induced hyperlocomotion in dopamine-deficient mice. <i>Molecular Brain</i> , 2020, 13, 126.	1.3	3
110	Impaired wakefulness and rapid eye movement sleep in dopamine-deficient mice. <i>Molecular Brain</i> , 2021, 14, 170.	1.3	3
111	Neural Circuit Mechanism for Learning Dependent on Dopamine Transmission. <i>Advances in Pharmacology</i> , 2013, 68, 143-153.	1.2	2
112	Optimisation of murine organotypic slice culture preparation for a novel sagittal-frontal co-culture system. <i>Journal of Neuroscience Methods</i> , 2017, 285, 49-57.	1.3	2
113	Retrograde Transgene Expression via Neuron-Specific Lentiviral Vector Depends on Both Species and Input Projections. <i>Viruses</i> , 2021, 13, 1387.	1.5	2
114	Transgenic Strategies in Autonomic Research. , 2004, , 435-XI.		0