Masahiko Takada

List of Publications by Year
in descending order

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59	1,668	430874	345221
papers	citations	18 h-index	36 g-index

65	65	65	1950
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deschloroclozapine, a potent and selective chemogenetic actuator enables rapid neuronal and behavioral modulations in mice and monkeys. Nature Neuroscience, 2020, 23, 1157-1167.	14.8	187
2	A Lentiviral Strategy for Highly Efficient Retrograde Gene Transfer by Pseudotyping with Fusion Envelope Glycoprotein. Human Gene Therapy, 2011, 22, 197-206.	2.7	132
3	High-Speed and Scalable Whole-Brain Imaging in Rodents and Primates. Neuron, 2017, 94, 1085-1100.e6.	8.1	108
4	PET imaging-guided chemogenetic silencing reveals a critical role of primate rostromedial caudate in reward evaluation. Nature Communications, 2016, 7, 13605.	12.8	96
5	Roles of the Lateral Habenula and Anterior Cingulate Cortex in Negative Outcome Monitoring and Behavioral Adjustment in Nonhuman Primates. Neuron, 2015, 88, 792-804.	8.1	85
6	An Open Resource for Non-human Primate Optogenetics. Neuron, 2020, 108, 1075-1090.e6.	8.1	79
7	Neuronal and behavioural modulations by pathway-selective optogenetic stimulation of the primate oculomotor system. Nature Communications, 2015, 6, 8378.	12.8	78
8	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. Human Gene Therapy, 2007, 18, 1141-1152.	2.7	66
9	Neuron-Specific Gene Transfer Through Retrograde Transport of Lentiviral Vector Pseudotyped with a Novel Type of Fusion Envelope Glycoprotein. Human Gene Therapy, 2011, 22, 1511-1523.	2.7	66
10	A Primary Role for Nucleus Accumbens and Related Limbic Network in Vocal Tics. Neuron, 2016, 89, 300-307.	8.1	64
11	Origins of multisynaptic projections from the basal ganglia to the forelimb region of the ventral premotor cortex in macaque monkeys. European Journal of Neuroscience, 2016, 43, 258-269.	2.6	53
12	MacaquePose: A Novel â€œIn the Wildâ€•Macaque Monkey Pose Dataset for Markerless Motion Capture. Frontiers in Behavioral Neuroscience, 2020, 14, 581154.	2.0	46
13	Treatment With the Neutralizing Antibody Against Repulsive Guidance Molecule-a Promotes Recovery From Impaired Manual Dexterity in a Primate Model of Spinal Cord Injury. Cerebral Cortex, 2019, 29, 561-572.	2.9	39
14	Chemogenetic dissection of the primate prefronto-subcortical pathways for working memory and decision-making. Science Advances, 2021, 7, .	10.3	38
15	Reorganization of corticospinal tract fibers after spinal cord injury in adult macaques. Scientific Reports, 2015, 5, 11986.	3.3	28
16	Primate Nigrostriatal Dopamine System Regulates Saccadic Response Inhibition. Neuron, 2018, 100, 1513-1526.e4.	8.1	28
17	Optogenetic manipulation of a value-coding pathway from the primate caudate tail facilitates saccadic gaze shift. Nature Communications, 2020, 11, 1876.	12.8	27
18	Claustrum mediates bidirectional and reversible control of stress-induced anxiety responses. Science Advances, 2022, 8, eabi6375.	10.3	27

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19	Using a novel PV-Cre rat model to characterize pallidonigral cells and their terminations. Brain Structure and Function, 2017, 222, 2359-2378.	2.3	25
20	Altering Entry Site Preference of Lentiviral Vectors into Neuronal Cells by Pseudotyping with Envelope Glycoproteins. Methods in Molecular Biology, 2016, 1382, 175-186.	0.9	22
21	Chemogenetic activation of nigrostriatal dopamine neurons in freely moving common marmosets. IScience, 2021, 24, 103066.	4.1	21
22	The use of an optimized chimeric envelope glycoprotein enhances the efficiency of retrograde gene transfer of a pseudotyped lentiviral vector in the primate brain. Neuroscience Research, 2017, 120, 45-52.	1.9	20
23	Primate Amygdalo-Nigral Pathway for Boosting Oculomotor Action in Motivating Situations. IScience, 2020, 23, 101194.	4.1	20
24	Pseudotyped Lentiviral Vectors for Retrograde Gene Delivery into Target Brain Regions. Frontiers in Neuroanatomy, 2017, 11, 65.	1.7	19
25	Layer specificity of inputs from supplementary motor area and dorsal premotor cortex to primary motor cortex in macaque monkeys. Scientific Reports, 2019, 9, 18230.	3.3	19
26	Chemogenetic sensory fMRI reveals behaviorally relevant bidirectional changes in primate somatosensory network. Neuron, 2021, 109, 3312-3322.e5.	8.1	19
27	Causal Role of Neural Signals Transmitted From the Frontal Eye Field to the Superior Colliculus in Saccade Generation. Frontiers in Neural Circuits, 2018, 12, 69.	2.8	17
28	Recruitment of calbindin into nigral dopamine neurons protects against MPTPâ€induced parkinsonism. Movement Disorders, 2019, 34, 200-209.	3.9	17
29	Olig2-Induced Semaphorin Expression Drives Corticospinal Axon Retraction After Spinal Cord Injury. Cerebral Cortex, 2020, 30, 5702-5716.	2.9	17
30	Altered Dynamic Information Flow through the Cortico-Basal Ganglia Pathways Mediates Parkinsonâ€™s Disease Symptoms. Cerebral Cortex, 2021, 31, 5363-5380.	2.9	16
31	Chronic Behavioral Manipulation via Orally Delivered Chemogenetic Actuator in Macaques. Journal of Neuroscience, 2022, 42, 2552-2561.	3.6	15
32	A note on retrograde gene transfer efficiency and inflammatory response of lentiviral vectors pseudotyped with FuG-E vs. FuG-B2 glycoproteins. Scientific Reports, 2019, 9, 3567.	3.3	12
33	Single caudate neurons encode temporally discounted value for formulating motivation for action. ELife, 2021, 10, .	6.0	12
34	Elucidating information processing in primate basal ganglia circuitry: a novel technique for pathway-selective ablation mediated by immunotoxin. Frontiers in Neural Circuits, 2013, 7, 140.	2.8	11
35	Alterations in the reduced pteridine contents in the cerebrospinal fluids of LRRK2 mutation carriers and patients with Parkinsonâ€™s disease. Journal of Neural Transmission, 2018, 125, 45-52.	2.8	11
36	Optogenetic recruitment of spinal reflex pathways from largeâ€diameter primary afferents in nonâ€transgenic rats transduced with AAV9/Channelrhodopsin 2. Journal of Physiology, 2019, 597, 5025-5040.	2.9	11

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37	Enhancement of the transduction efficiency of a lentiviral vector for neuron-specific retrograde gene delivery through the point mutation of fusion glycoprotein type E. Journal of Neuroscience Methods, 2019, 311, 147-155.	2.5	11
38	Preferential Representation of Past Outcome Information and Future Choice Behavior by Putative Inhibitory Interneurons Rather Than Putative Pyramidal Neurons in the Primate Dorsal Anterior Cingulate Cortex. Cerebral Cortex, 2019, 29, 2339-2352.	2.9	10
39	Sporadic Premature Aging in a Japanese Monkey: A Primate Model for Progeria. PLoS ONE, 2014, 9, e111867.	2.5	8
40	Specific gene expression in unmyelinated dorsal root ganglion neurons in nonhuman primates by intra-nerve injection of AAV 6 vector. Molecular Therapy - Methods and Clinical Development, 2021, 23, 11-22.	4.1	8
41	Laminar Organization of the Entorhinal Cortex in Macaque Monkeys Based on Cell-Type-Specific Markers and Connectivity. Frontiers in Neural Circuits, 2021, 15, 790116.	2.8	8
42	Oral splint ameliorates tic symptoms in patients with tourette syndrome. Movement Disorders, 2019, 34, 1577-1578.	3.9	7
43	Propagated but Topologically Distributed Forebrain Neurons Expressing Alpha-Synuclein in Aged Macaques. PLoS ONE, 2016, 11, e0166861.	2.5	7
44	Multisynaptic Projections from the Amygdala to the Ventral Premotor Cortex in Macaque Monkeys: Anatomical Substrate for Feeding Behavior. Frontiers in Neuroanatomy, 2018, 12, 3.	1.7	6
45	Rapid processing of threatening faces in the amygdala of nonhuman primates: subcortical inputs and dual roles. Cerebral Cortex, 2023, 33, 895-915.	2.9	6
46	Store-Operated Calcium Channels Are Involved in Spontaneous Slow Calcium Oscillations in Striatal Neurons. Frontiers in Cellular Neuroscience, 2019, 13, 547.	3.7	5
47	Morphological features of large layer V pyramidal neurons in cortical motor-related areas of macaque monkeys: analysis of basal dendrites. Scientific Reports, 2021, 11, 4171.	3.3	5
48	Microendoscopic calcium imaging of the primary visual cortex of behaving macaques. Scientific Reports, 2021, 11, 17021.	3.3	5
49	Visuomotor signals for reaching movements in the rostroâ€dorsal sector of the monkey thalamic reticular nucleus. European Journal of Neuroscience, 2017, 45, 1186-1199.	2.6	4
50	Nonhuman Primate Optogenetics: Current Status and Future Prospects. Advances in Experimental Medicine and Biology, 2021, 1293, 345-358.	1.6	4
51	Conservation of the Direct and Indirect Pathway Dichotomy in Mouse Caudal Striatum With Uneven Distribution of Dopamine Receptor D1- and D2-Expressing Neurons. Frontiers in Neuroanatomy, 2022, 16, 809446.	1.7	4
52	Effects of Optogenetic Suppression of Cortical Input on Primate Thalamic Neuronal Activity during Goal-Directed Behavior. ENeuro, 2021, 8, ENEURO.0511-20.2021.	1.9	3
53	An enhanced therapeutic effect of repetitive transcranial magnetic stimulation combined with antibody treatment in a primate model of spinal cord injury. PLoS ONE, 2021, 16, e0252023.	2.5	3
54	A multisynaptic pathway from the ventral midbrain toward spinal motoneurons in monkeys. Journal of Physiology, 2022, 600, 1731-1752.	2.9	3

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55	Origin of Multisynaptic Corticospinal Pathway to Forelimb Segments in Macaques and Its Reorganization After Spinal Cord Injury. Frontiers in Neural Circuits, 2022, 16, 847100.	2.8	3
56	Retrograde Transgene Expression via Neuron-Specific Lentiviral Vector Depends on Both Species and Input Projections. Viruses, 2021, 13, 1387.	3.3	2
57	Promoting functional recovery by inhibition of repulsive guidance molecule-a after spinal cord injury. Neural Regeneration Research, 2018, 13, 981.	3.0	2
58	Perturbation of monoamine metabolism and enhanced fear responses in mice defective in the regeneration of tetrahydrobiopterin. Journal of Neurochemistry, 2022, , .	3.9	1
59	Developmental Anatomy in the Zonular Connection with Lens Capsule in Macaque Eye. Anatomical Record, 2013, 296, C1-C1.	1.4	0