Hiroyuki Hioki

List of Publications by Year
in descending order

106	7,726	87888 38	54911 84
papers	citations	h-index	g-index

129	129	129	10352
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single Nigrostriatal Dopaminergic Neurons Form Widely Spread and Highly Dense Axonal Arborizations in the Neostriatum. Journal of Neuroscience, 2009, 29, 444-453.	3.6	670
2	Modeling Alzheimerâ€™s Disease with iPSCs Reveals Stress Phenotypes Associated with Intracellular AÎ² and Differential Drug Responsiveness. Cell Stem Cell, 2013, 12, 487-496.	11.1	652
3	ScaleS: an optical clearing palette for biological imaging. Nature Neuroscience, 2015, 18, 1518-1529.	14.8	511
4	Drug Screening for ALS Using Patient-Specific Induced Pluripotent Stem Cells. Science Translational Medicine, 2012, 4, 145ra104.	12.4	465
5	Immunohistochemical localization of candidates for vesicular glutamate transporters in the rat brain. Journal of Comparative Neurology, 2002, 444, 39-62.	1.6	368
6	Single-cell bioluminescence imaging of deep tissue in freely moving animals. Science, 2018, 359, 935-939.	12.6	319
7	Identification of Sympathetic Premotor Neurons in Medullary Raphe Regions Mediating Fever and Other Thermoregulatory Functions. Journal of Neuroscience, 2004, 24, 5370-5380.	3.6	259
8	Dorsal Horn Circuits for Persistent Mechanical Pain. Neuron, 2015, 87, 797-812.	8.1	259
9	Two Types of Thalamocortical Projections from the Motor Thalamic Nuclei of the Rat: A Single Neuron-Tracing Study Using Viral Vectors. Cerebral Cortex, 2009, 19, 2065-2077.	2.9	250
10	Psychological Stress Activates a Dorsomedial Hypothalamus-Medullary Raphe Circuit Driving Brown Adipose Tissue Thermogenesis and Hyperthermia. Cell Metabolism, 2014, 20, 346-358.	16.2	204
11	Ischemia-induced neurogenesis of neocortical layer 1 progenitor cells. Nature Neuroscience, 2010, 13, 173-179.	14.8	198
12	Differential distribution of vesicular glutamate transporters in the rat cerebellar cortex. Neuroscience, 2003, 117, 1-6.	2.3	194
13	Vesicular glutamate transporter 3â€expressing nonserotonergic projection neurons constitute a subregion in the rat midbrain raphe nuclei. Journal of Comparative Neurology, 2010, 518, 668-686.	1.6	194
14	Hippocampal ripples down-regulate synapses. Science, 2018, 359, 1524-1527.	12.6	172
15	A Morphological Analysis of Thalamocortical Axon Fibers of Rat Posterior Thalamic Nuclei: A Single Neuron Tracing Study with Viral Vectors. Cerebral Cortex, 2012, 22, 2840-2857.	2.9	159
16	Anti-AÎ² Drug Screening Platform Using Human iPS Cell-Derived Neurons for the Treatment of Alzheimer's Disease. PLoS ONE, 2011, 6, e25788.	2.5	156
17	Postnatal changes of vesicular glutamate transporter (VGluT)1 and VGluT2 immunoreactivities and their colocalization in the mouse forebrain. Journal of Comparative Neurology, 2005, 492, 263-288.	1.6	139
18	Efficient gene transduction of neurons by lentivirus with enhanced neuron-specific promoters. Gene Therapy, 2007, 14, 872-882.	4.5	134

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19	Ventral Medial Nucleus Neurons Send Thalamocortical Afferents More Widely and More Preferentially to Layer 1 than Neurons of the Ventral Anteriorâ€“Ventral Lateral Nuclear Complex in the Rat. Cerebral Cortex, 2015, 25, 221-235.	2.9	121
20	A hypothalamic novelty signal modulates hippocampal memory. Nature, 2020, 586, 270-274.	27.8	121
21	Inhibitory and excitatory subtypes of cochlear nucleus neurons are defined by distinct bHLH transcription factors, Ptf1a and Atoh1. Development (Cambridge), 2009, 136, 2049-2058.	2.5	106
22	Complementary distribution of glutamatergic cerebellar and GABAergic basal ganglia afferents to the rat motor thalamic nuclei. European Journal of Neuroscience, 2011, 33, 95-109.	2.6	106
23	Transiently increased colocalization of vesicular glutamate transporters 1 and 2 at single axon terminals during postnatal development of mouse neocortex: a quantitative analysis with correlation coefficient. European Journal of Neuroscience, 2007, 26, 3054-3067.	2.6	90
24	Visualizing and Modulating Mitophagy for Therapeutic Studies of Neurodegeneration. Cell, 2020, 181, 1176-1187.e16.	28.9	89
25	Presynaptic localization of an AMPA-type glutamate receptor in corticostriatal and thalamostriatal axon terminals. European Journal of Neuroscience, 2004, 20, 3322-3330.	2.6	86
26	Individual mediodorsal thalamic neurons project to multiple areas of the rat prefrontal cortex: A single neuronâ€tracing study using virus vectors. Journal of Comparative Neurology, 2017, 525, 166-185.	1.6	85
27	Changes of immunocytochemical localization of vesicular glutamate transporters in the rat visual system after the retinofugal denervation. Journal of Comparative Neurology, 2003, 465, 234-249.	1.6	79
28	Sound-Intensity-Dependent Compensation for the Small Interaural Time Difference Cue for Sound Source Localization. Journal of Neuroscience, 2008, 28, 7153-7164.	3.6	75
29	Cell Type-Specific Inhibitory Inputs to Dendritic and Somatic Compartments of Parvalbumin-Expressing Neocortical Interneuron. Journal of Neuroscience, 2013, 33, 544-555.	3.6	74
30	Chemically Specific Circuit Composed of Vesicular Glutamate Transporter 3- and Preprotachykinin B-producing Interneurons in the Rat Neocortex. Cerebral Cortex, 2004, 14, 1266-1275.	2.9	68
31	Î³-Aminobutyric acid-containing sympathetic preganglionic neurons in rat thoracic spinal cord send their axons to the superior cervical ganglion. Journal of Comparative Neurology, 2007, 502, 113-125.	1.6	66
32	Unbalanced excitability underlies offline reactivation of behaviorally activated neurons. Nature Neuroscience, 2014, 17, 503-505.	14.8	64
33	High-level transgene expression in neurons by lentivirus with Tet-Off system. Neuroscience Research, 2009, 63, 149-154.	1.9	63
34	Different cortical projections from three subdivisions of the rat lateral posterior thalamic nucleus: a singleâ€neuron tracing study with viral vectors. European Journal of Neuroscience, 2015, 41, 1294-1310.	2.6	63
35	Vesicular glutamate transporter immunoreactivity in the central and peripheral endings of muscle-spindle afferents. Brain Research, 2004, 1011, 247-251.	2.2	62
36	Fast, cell-resolution, contiguous-wide two-photon imaging to reveal functional network architectures across multi-modal cortical areas. Neuron, 2021, 109, 1810-1824.e9.	8.1	60

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37	Intrinsic Projections of Layer Vb Neurons to Layers Va, III, and II in the Lateral and Medial Entorhinal Cortex of the Rat. Cell Reports, 2018, 24, 107-116.	6.4	58
38	Parvalbuminâ€producing cortical interneurons receive inhibitory inputs on proximal portions and cortical excitatory inputs on distal dendrites. European Journal of Neuroscience, 2012, 35, 838-854.	2.6	47
39	Targeting green fluorescent protein to dendritic membrane in central neurons. Neuroscience Research, 2008, 61, 79-91.	1.9	45
40	A Single Vector Platform for High-Level Gene Transduction of Central Neurons: Adeno-Associated Virus Vector Equipped with the Tet-Off System. PLoS ONE, 2017, 12, e0169611.	2.5	41
41	Structural basis for serotonergic regulation of neural circuits in the mouse olfactory bulb. Journal of Comparative Neurology, 2015, 523, 262-280.	1.6	38
42	Independent inputs by VGLUT2- and VGLUT3-positive glutamatergic terminals onto rat sympathetic preganglionic neurons. NeuroReport, 2004, 15, 431-436.	1.2	37
43	Expression of Gap Junction Protein Connexin36 in Multiple Subtypes of GABAergic Neurons in Adult Rat Somatosensory Cortex. Cerebral Cortex, 2011, 21, 2639-2649.	2.9	35
44	Structural basis for cholinergic regulation of neural circuits in the mouse olfactory bulb. Journal of Comparative Neurology, 2017, 525, 574-591.	1.6	35
45	Preprodynorphinâ€expressing neurons constitute a large subgroup of somatostatinâ€expressing GABAergic interneurons in the mouse neocortex. Journal of Comparative Neurology, 2014, 522, 1506-1526.	1.6	34
46	Paucity of enkephalin production in neostriatal striosomal neurons: analysis with preproenkephalinâ€“green fluorescent protein transgenic mice. European Journal of Neuroscience, 2008, 28, 2053-2064.	2.6	30
47	Coexpression of VGLUT1 and VGLUT2 in trigeminothalamic projection neurons in the principal sensory trigeminal nucleus of the rat. Journal of Comparative Neurology, 2010, 518, 3149-3168.	1.6	30
48	Parvalbumin-expressing interneurons can act solo while somatostatin-expressing interneurons act in chorus in most cases on cortical pyramidal cells. Scientific Reports, 2017, 7, 12764.	3.3	30
49	Differential Inputs to the Perisomatic and Distal-Dendritic Compartments of VIP-Positive Neurons in Layer 2/3 of the Mouse Barrel Cortex. Frontiers in Neuroanatomy, 2016, 10, 124.	1.7	29
50	Local Connections of Excitatory Neurons to Corticothalamic Neurons in the Rat Barrel Cortex. Journal of Neuroscience, 2011, 31, 18223-18236.	3.6	25
51	Differential expression of VGLUT1 or VGLUT2 in the trigeminothalamic or trigeminocerebellar projection neurons in the rat. Brain Structure and Function, 2014, 219, 211-229.	2.3	25
52	High-fat dietâ€“induced activation of SGK1 promotes Alzheimerâ€™s diseaseâ€“associated tau pathology. Human Molecular Genetics, 2021, 30, 1693-1710.	2.9	23
53	Morphological analysis of the early development of telencephalic and diencephalic gonadotropinâ€releasing hormone neuronal systems in enhanced green fluorescent proteinâ€expressing transgenic medaka lines. Journal of Comparative Neurology, 2016, 524, 896-913.	1.6	21
54	Convergence of lemniscal and local excitatory inputs on large GABAergic tectothalamic neurons. Journal of Comparative Neurology, 2015, 523, 2277-2296.	1.6	20

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55	Dorsal and ventral parts of thalamic nucleus submedius project to different areas of rat orbitofrontal cortex: A single neuronâ€tracing study using virus vectors. Journal of Comparative Neurology, 2017, 525, 3821-3839.	1.6	20
56	Preferential inputs from cholecystokinin-positive neurons to the somatic compartment of parvalbumin-expressing neurons in the mouse primary somatosensory cortex. Brain Research, 2018, 1695, 18-30.	2.2	18
57	Vesicular glutamate transporter 3 (VGLUT3) identifies spatially segregated excitatory terminals in the rat substantia nigra. European Journal of Neuroscience, 2006, 23, 1063-1070.	2.6	17
58	GABAergic malfunction in the anterior cingulate cortex underlying maternal immune activation-induced social deficits. Journal of Neuroimmunology, 2018, 321, 92-96.	2.3	17
59	Visualization of Cortical Projection Neurons with Retrograde TET-Off Lentiviral Vector. PLoS ONE, 2012, 7, e46157.	2.5	17
60	Expression of D1 but not D2 dopamine receptors in striatal neurons producing neurokininâ€ƒB in rats. European Journal of Neuroscience, 2007, 26, 3093-3103.	2.6	16
61	3D Clustering of GABAergic Neurons Enhances Inhibitory Actions on Excitatory Neurons in the Mouse Visual Cortex. Cell Reports, 2014, 9, 1896-1907.	6.4	16
62	Sequence of Molecular Events during the Maturation of the Developing Mouse Prefrontal Cortex. Molecular Neuropsychiatry, 2015, 1, 94-104.	2.9	15
63	Generation of a MORâ€CreER knockâ€in mouse line to study cells and neural circuits involved in mu opioid receptor signaling. Genesis, 2020, 58, e23341.	1.6	15
64	Overlapping Projections of Neighboring Direct and Indirect Pathway Neostriatal Neurons to Globus Pallidus External Segment. IScience, 2020, 23, 101409.	4.1	15
65	Metabotropic glutamate receptor 4-immunopositive terminals of medium-sized spiny neurons selectively form synapses with cholinergic interneurons in the rat neostriatum. Journal of Comparative Neurology, 2007, 500, 908-922.	1.6	12
66	Parvalbuminâ€producing striatal interneurons receive excitatory inputs onto proximal dendrites from the motor thalamus in male mice. Journal of Neuroscience Research, 2018, 96, 1186-1207.	2.9	12
67	Exclusive labeling of direct and indirect pathway neurons in the mouse neostriatum by an adeno-associated virus vector with Cre/lox system. STAR Protocols, 2021, 2, 100230.	1.2	12
68	Multi-scale light microscopy/electron microscopy neuronal imaging from brain to synapse with a tissue clearing method, ScaleSF. IScience, 2022, 25, 103601.	4.1	11
69	Afferent islands are larger than Î¼-opioid receptor patch in striatum of rat pups. NeuroReport, 2009, 20, 584-588.	1.2	10
70	Compartmental organization of synaptic inputs to parvalbumin-expressing GABAergic neurons in mouse primary somatosensory cortex. Anatomical Science International, 2015, 90, 7-21.	1.0	10
71	Deep Imaging of Cleared Brain by Confocal Laser-Scanning Microscopy. Protocol Exchange, 0, , .	0.3	10
72	EphA4â€dependent axon retraction and midline localization of <scp>E</scp>phrinâ€<scp>B</scp>3 are disrupted in the spinal cord of mice lacking <scp>mD</scp>ia1 and <scp>mD</scp>ia3 in combination. Genes To Cells, 2013, 18, 873-885.	1.2	9

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73	Tb ³⁺ -doped fluorescent glass for biology. Science Advances, 2021, 7, .	10.3	9
74	Projection Patterns of Corticofugal Neurons Associated with Vibrissa Movement. ENeuro, 2018, 5, ENEURO.0190-18.2018.	1.9	9
75	Some Î³-motoneurons contain Î³-aminobutyric acid in the rat cervical spinal cord. Brain Research, 2008, 1201, 78-87.	2.2	8
76	Shaping somatosensory responses in awake rats: cortical modulation of thalamic neurons. Brain Structure and Function, 2018, 223, 851-872.	2.3	8
77	Efficient Labeling of Neurons and Identification of Postsynaptic Sites Using Adeno-Associated Virus Vector. Neuromethods, 2021, , 323-341.	0.3	8
78	Ras-like Gem GTPase induced by Npas4 promotes activity-dependent neuronal tolerance for ischemic stroke. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	7
79	Transiently increased colocalization of vesicular glutamate transporters 1 and 2 at single axon terminals during postnatal development of mouse neocortex: a quantitative analysis with correlation coefficient. European Journal of Neuroscience, 2008, 28, 1032-1046.	2.6	6
80	Distribution of Gephyrinâ€Immunoreactivity in the Trigeminal Motor Nucleus: An Immunohistochemical Study in Rats. Anatomical Record, 2012, 295, 641-651.	1.4	5
81	Response to Comment on â€œDrug Screening for ALS Using Patient-Specific Induced Pluripotent Stem Cellsâ€• Science Translational Medicine, 2013, 5, 188lr2.	12.4	5
82	Local Connections of Pyramidal Neurons to Parvalbumin-Producing Interneurons in Motor-Associated Cortical Areas of Mice. ENeuro, 2022, 9, ENEURO.0567-20.2021.	1.9	5
83	Uts2b is a microbiota-regulated gene expressed in vagal afferent neurons connected to enteroendocrine cells producing cholecystokinin. Biochemical and Biophysical Research Communications, 2022, 608, 66-72.	2.1	4
84	Efficient and graded gene expression in glia and neurons of primary cerebellar cultures transduced by lentiviral vectors. Histochemistry and Cell Biology, 2015, 143, 109-121.	1.7	3
85	Kv4.2-Positive Domains on Dendrites in the Mouse Medial Geniculate Body Receive Ascending Excitatory and Inhibitory Inputs Preferentially From the Inferior Colliculus. Frontiers in Neuroscience, 2021, 15, 740378.	2.8	3
86	Structural basis for noradrenergic regulation of neural circuits in the mouse olfactory bulb. Journal of Comparative Neurology, 2021, 529, 2189-2208.	1.6	2
87	Susceptibility of subregions of prefrontal cortex and corpus callosum to damage by high-dose oxytocin-induced labor in male neonatal mice. PLoS ONE, 2021, 16, e0256693.	2.5	2
88	Development of dendritic membrane-targeting signals using lentiviral vectors. Neuroscience Research, 2007, 58, S69.	1.9	0
89	Efficient visualization of central neurons with lentiviral vectors expressing Red Fluorescent Proteins (RFP). Neuroscience Research, 2009, 65, S132.	1.9	0
90	Search for molecular markers of layer VI corticothalamic neurons in the rat neocortex. Neuroscience Research, 2009, 65, S177-S178.	1.9	0

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91	Single-neuron tracing study of thalamocortical projections arising from the rat ventral medial nucleus by using viral vectors. Neuroscience Research, 2010, 68, e262.	1.9	0
92	A single-neuron analysis of rat subthalamic nucleus: Complete visualization with a viral vector. Neuroscience Research, 2010, 68, e261-e262.	1.9	0
93	Roles of mDia isoforms, a Rho effector, in neural development. Neuroscience Research, 2010, 68, e138.	1.9	0
94	Classification of neocortical inhibitory inputs into the PV-expressing neurons with BAC transgenic mice. Neuroscience Research, 2010, 68, e156.	1.9	0
95	TET-OFF lentiviral vectors drive high-level transgene expression in marmoset brains. Neuroscience Research, 2010, 68, e218-e219.	1.9	0
96	Golgi-like labeling of layer Va pyramidal cells in the neocortex of the BAC transgenic animals. Neuroscience Research, 2010, 68, e219.	1.9	0
97	Single-neuron tracing study of thalamocortical projections arising from the rat ventral medial nucleus by using viral vectors. Neuroscience Research, 2011, 71, e89.	1.9	0
98	Dorsal and Ventral Parts of Thalamic Nucleus Submedius Project to Different Areas of Rat Orbitofrontal Cortex: A Single Neuron-Tracing Study Using Virus Vectors. Journal of Comparative Neurology, 2017, 525, 3821.	1.6	0
99	Application of a Method for the Analysis of Dopaminergic. Methods in Molecular Biology, 2021, 2322, 141-150.	0.9	0
100	Application of Virus Vectors for Anterograde Tract-Tracing and Single-Neuron Labeling Studies. Neuromethods, 2021, , 303-322.	0.3	0
101	Analysis of Synaptic Connections at the Electron Microscopic Level Using Sindbis Virus Vectors. Neuromethods, 2021, , 343-352.	0.3	0
102	Optogenetic stimulation of preoptic neurons inhibits brown adipose tissue sympathetic nerve activity. FASEB Journal, 2013, 27, 926.3.	0.5	0
103	Direct projection from the dorsomedial hypothalamus to the rostral medullary raphe drives brown adipose tissue thermogenesis. FASEB Journal, 2013, 27, 932.7.	0.5	0
104	Analysis of Synaptic Connections at the Electron Microscopic Level Using Viral Vectors. Neuromethods, 2016, , 267-275.	0.3	0
105	Application of Virus Vectors for Anterograde Tract-Tracing and Single-Neuron Labeling Studies. Neuromethods, 2016, , 247-266.	0.3	0
106	Reduction of Freezing Behavior by Acupuncture Stimulation at HT7 in Contextual Fear-Conditioned Mice. Juntendo Medical Journal, 2019, 65, 554-560.	0.1	0