Takaki Miyata

List of Publications by Year
in descending order

63 papers	8,228 citations	136950 32 h-index	138484 58 g-index
70 all docs	70 docs citations	70 times ranked	10684 citing authors

#	Article	IF	Citations
1	Visualizing Spatiotemporal Dynamics of Multicellular Cell-Cycle Progression. Cell, 2008, 132, 487-498.	28.9	1,888
2	The reeler gene-associated antigen on cajal-retzius neurons is a crucial molecule for laminar organization of cortical neurons. Neuron, 1995, 14, 899-912.	8.1	844
3	Asymmetric Inheritance of Radial Glial Fibers by Cortical Neurons. Neuron, 2001, 31, 727-741.	8.1	813
4	Asymmetric production of surface-dividing and non-surface-dividing cortical progenitor cells. Development (Cambridge), 2004, 131, 3133-3145.	2.5	659
5	Neuroepithelial progenitors undergo LGN-dependent planar divisions to maintain self-renewability during mammalian neurogenesis. Nature Cell Biology, 2008, 10, 93-101.	10.3	449
6	Consensus Paper: Cerebellar Development. Cerebellum, 2016, 15, 789-828.	2.5	337
7	Nestin-EGFP Transgenic Mice: Visualization of the Self-Renewal and Multipotency of CNS Stem Cells. Molecular and Cellular Neurosciences, 2001, 17, 259-273.	2.2	298
8	Improved Orange and Red Ca²⁺ Indicators and Photophysical Considerations for Optogenetic Applications. ACS Chemical Neuroscience, 2013, 4, 963-972.	3.5	218
9	Meflin-Positive Cancer-Associated Fibroblasts Inhibit Pancreatic Carcinogenesis. Cancer Research, 2019, 79, 5367-5381.	0.9	194
10	Mind Bomb 1-Expressing Intermediate Progenitors Generate Notch Signaling to Maintain Radial Glial Cells. Neuron, 2008, 58, 519-531.	8.1	175
11	Regulation of Purkinje Cell Alignment by Reelin as Revealed with CR-50 Antibody. Journal of Neuroscience, 1997, 17, 3599-3609.	3.6	166
12	Inactivation of aPKCÎ» results in the loss of adherens junctions in neuroepithelial cells without affecting neurogenesis in mouse neocortex. Development (Cambridge), 2006, 133, 1735-1744.	2.5	160
13	Pioneering Axons Regulate Neuronal Polarization in the Developing Cerebral Cortex. Neuron, 2014, 81, 814-829.	8.1	139
14	Synaptic transmission from subplate neurons controls radial migration of neocortical neurons. Science, 2018, 360, 313-317.	12.6	127
15	Sustained inflammation after pericyte depletion induces irreversible blood-retina barrier breakdown. JCI Insight, 2017, 2, e90905.	5.0	113
16	Migration, early axonogenesis, and Reelin-dependent layer-forming behavior of early/posterior-born Purkinje cells in the developing mouse lateral cerebellum. Neural Development, 2010, 5, 23.	2.4	98
17	Distribution of a reeler gene-related antigen in the developing cerebellum: An immunohistochemical study with an allogeneic antibody CR-50 on normal and reeler mice. , 1996, 372, 215-228.		97
18	TAG-1â€"assisted progenitor elongation streamlines nuclear migration to optimize subapical crowding. Nature Neuroscience, 2013, 16, 1556-1566.	14.8	93

#	Article	IF	Citations
19	Periventricular notch activation and asymmetric Ngn2 and Tbr2 expression in pair-generated neocortical daughter cells. Molecular and Cellular Neurosciences, 2009, 40, 225-233.	2.2	92
20	Dynamics of Centrosome Translocation and Microtubule Organization in Neocortical Neurons during Distinct Modes of Polarization. Cerebral Cortex, 2014, 24, 1301-1310.	2.9	86
21	Cell-cycle-independent transitions in temporal identity of mammalian neural progenitor cells. Nature Communications, 2016, 7, 11349.	12.8	78
22	Mechanisms that regulate the number of neurons during mouse neocortical development. Current Opinion in Neurobiology, 2010, 20, 22-28.	4.2	70
23	Cell-cycle-specific nestin expression coordinates with morphological changes in embryonic cortical neural progenitors. Journal of Cell Science, 2008, 121, 1204-1212.	2.0	65
24	Downregulation of Functional Reelin Receptors in Projection Neurons Implies That Primary Reelin Action Occurs atEarly/Premigratory Stages. Journal of Neuroscience, 2009, 29, 10653-10662.	3.6	65
25	Ablation of cholesterol biosynthesis in neural stem cells increases their VEGF expression and angiogenesis but causes neuron apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8350-8355.	7.1	64
26	Interkinetic nuclear migration generates and opposes ventricular-zone crowding: insight into tissue mechanics. Frontiers in Cellular Neuroscience, 2014, 8, 473.	3.7	64
27	Radial Glial Fibers Promote Neuronal Migration and Functional Recovery after Neonatal Brain Injury. Cell Stem Cell, 2018, 22, 128-137.e9.	11.1	63
28	Roles of the Mesenchymal Stromal/Stem Cell Marker Meflin in Cardiac Tissue Repair and the Development of Diastolic Dysfunction. Circulation Research, 2019, 125, 414-430.	4.5	47
29	Pax6 transcription factor is required for the interkinetic nuclear movement of neuroepithelial cells. Genes To Cells, 2007, 12, 983-996.	1.2	46
30	Development of threeâ€dimensional architecture of the neuroepithelium: Role of pseudostratification and cellular â€˜communityâ€™. Development Growth and Differentiation, 2008, 50, S105-12.	1.5	44
31	Morphological asymmetry in dividing retinal progenitor cells. Development Growth and Differentiation, 2003, 45, 219-229.	1.5	42
32	Synergistic action of nectins and cadherins generates the mosaic cellular pattern of the olfactory epithelium. Journal of Cell Biology, 2016, 212, 561-575.	5.2	42
33	Twisting of Neocortical Progenitor Cells Underlies a Spring-like Mechanism for Daughter-Cell Migration. Current Biology, 2007, 17, 146-151.	3.9	39
34	Transient microglial absence assists postmigratory cortical neurons in proper differentiation. Nature Communications, 2020, 11, 1631.	12.8	35
35	Rac is involved in the interkinetic nuclear migration of cortical progenitor cells. Neuroscience Research, 2009, 63, 294-301.	1.9	31
36	Differential expression of Pax6 and Ngn2 between pair-generated cortical neurons. Journal of Neuroscience Research, 2004, 78, 784-795.	2.9	30

#	Article	IF	Citations
37	Visualization of cell cycling by an improvement in slice culture methods. Journal of Neuroscience Research, 2002, 69, 861-868.	2.9	29
38	Differences in the Mechanical Properties of the Developing Cerebral Cortical Proliferative Zone between Mice and Ferrets at both the Tissue and Single-Cell Levels. Frontiers in Cell and Developmental Biology, 2016, 4, 139.	3.7	28
39	Microglia extensively survey the developing cortex via the CXCL12/CXCR4 system to help neural progenitors to acquire differentiated properties. Genes To Cells, 2018, 23, 915-922.	1.2	27
40	Lzts1 controls both neuronal delamination and outer radial glial-like cell generation during mammalian cerebral development. Nature Communications, 2019, 10, 2780.	12.8	27
41	Ferretâ€"mouse differences in interkinetic nuclear migration and cellular densification in the neocortical ventricular zone. Neuroscience Research, 2014, 86, 88-95.	1.9	24
42	Transformation of pin-like ventricular zone cells into cortical neurons. Neuroscience Research, 2007, 57, 326-329.	1.9	21
43	Elasticity-based boosting of neuroepithelial nucleokinesis via indirect energy transfer from mother to daughter. PLoS Biology, 2018, 16, e2004426.	5.6	21
44	Survey of the morphogenetic dynamics of the ventricular surface of the developing mouse neocortex. Developmental Dynamics, 2007, 236, 3061-3070.	1.8	20
45	Dynamic behavior of individual cells in developing organotypic brain slices revealed by the photoconvertable protein Kaede. Experimental Neurology, 2006, 200, 430-437.	4.1	19
46	Neural Progenitor Cells Undergoing Yap/Tead-Mediated Enhanced Self-Renewal Form Heterotopias More Easily in the Diencephalon than in the Telencephalon. Neurochemical Research, 2018, 43, 180-189.	3.3	17
47	Dorsal-to-Ventral Cortical Expansion Is Physically Primed by Ventral Streaming of Early Embryonic Preplate Neurons. Cell Reports, 2019, 29, 1555-1567.e5.	6.4	17
48	Developmental Potentials of Early Telencephalic Neuroepithelial Cells: A Study with Microexplant Culture. (neurogenesis/commitment/neuroepithelium/telencephalon/culture). Development Growth and Differentiation, 1994, 36, 319-331.	1.5	15
49	Asymmetric Cell Division During Brain Morphogenesis. Progress in Molecular and Subcellular Biology, 2007, 45, 121-142.	1.6	15
50	Actin-binding protein filamin-A drives tau aggregation and contributes to progressive supranuclear palsy pathology. Science Advances, 2022, 8, .	10.3	15
51	Differentiating cells mechanically limit progenitor cellsâ€™ interkinetic nuclear migration to secure apical cytogenesis. Development (Cambridge), 2018, 145, .	2.5	14
52	N eurogenin2â€d4 V enus and G add45gâ€d4 V enus transgenic mice: Visualizing mitotic and migratory behaviors of cells committed to the neuronal lineage in the developing mammalian brain. Development Growth and Differentiation, 2014, 56, 293-304.	1.5	12
53	Embryonic Pericytes Promote Microglial Homeostasis and Their Effects on Neural Progenitors in the Developing Cerebral Cortex. Journal of Neuroscience, 2022, 42, 362-376.	3.6	9
54	Twoâ€photon microscopic observation of cellâ€production dynamics in the developing mammalian neocortex in utero. Development Growth and Differentiation, 2020, 62, 118-128.	1.5	7

#	Article	IF	Citations
55	Comparison of the Mechanical Properties Between the Convex and Concave Inner/Apical Surfaces of the Developing Cerebrum. Frontiers in Cell and Developmental Biology, 2021, 9, 702068.	3.7	7
56	Embryonic Neocortical Microglia Express Toll-Like Receptor 9 and Respond to Plasmid DNA Injected into the Ventricle: Technical Considerations Regarding Microglial Distribution in Electroporated Brain Walls. ENeuro, 2018, 5, ENEURO.0312-18.2018.	1.9	6
57	Developmentally interdependent stretcherâ€compressor relationship between the embryonic brain and the surrounding scalp in the preosteogenic head. Developmental Dynamics, 2022, , .	1.8	3
58	Mid1 is associated with androgen-dependent axonal vulnerability of motor neurons in spinal and bulbar muscular atrophy. Cell Death and Disease, 2022, 13, .	6.3	2
59	Morphology and Mechanics of Daughter Cells "Delaminating" from the Ventricular Zone of the Developing Neocortex. Cell Adhesion and Migration, 2007, 1, 99-101.	2.7	1
60	A mouse model of microglia-specific ablation in the embryonic central nervous system. Neuroscience Research, 2021, 173, 54-61.	1.9	1
61	A â€œmulticellularâ€•step to understand the development of the nervous system. Development Growth and Differentiation, 2012, 54, 265-265.	1.5	0
62	Role of extrinsic mechanical force in the development of the RA-I tactile mechanoreceptor. Scientific Reports, 2018, 8, 11085.	3.3	0
63	Dorsal-to-Ventral Neocortical Expansion is Physically Primed by Ventral Streaming of Early Embryonic Preplate Neurons. SSRN Electronic Journal, 0, , .	0.4	0