

# Tomomi Shimogori

## List of Publications by Year in descending order

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73  
papers

5,491  
citations

101384

36  
h-index

98622

67  
g-index

80  
all docs

80  
docs citations

80  
times ranked

8619  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scale: a chemical approach for fluorescence imaging and reconstruction of transparent mouse brain. <i>Nature Neuroscience</i> , 2011, 14, 1481-1488.	7.1	1,096
2	A genomic atlas of mouse hypothalamic development. <i>Nature Neuroscience</i> , 2010, 13, 767-775.	7.1	354
3	A Bilirubin-Inducible Fluorescent Protein from Eel Muscle. <i>Cell</i> , 2013, 153, 1602-1611.	13.5	269
4	Embryonic signaling centers expressing BMP, WNT and FGF proteins interact to pattern the cerebral cortex. <i>Development (Cambridge)</i> , 2004, 131, 5639-5647.	1.2	266
5	TBK1 controls autophagosomal engulfment of polyubiquitinated mitochondria through p62/SQSTM1 phosphorylation. <i>Human Molecular Genetics</i> , 2015, 24, 4429-4442.	1.4	249
6	Hes genes and neurogenin regulate non-neural versus neural fate specification in the dorsal telencephalic midline. <i>Development (Cambridge)</i> , 2008, 135, 2531-2541.	1.2	178
7	Possible involvement of SINEs in mammalian-specific brain formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4220-4225.	3.3	177
8	Brain/MINDS: A Japanese National Brain Project for Marmoset Neuroscience. <i>Neuron</i> , 2016, 92, 582-590.	3.8	174
9	Members of the Wnt, Fz, and Frp gene families expressed in postnatal mouse cerebral cortex. <i>Journal of Comparative Neurology</i> , 2004, 473, 496-510.	0.9	131
10	Chemico-genetic discovery of astrocytic control of inhibition in vivo. <i>Nature</i> , 2020, 588, 296-302.	13.7	130
11	Prdm Proto-Oncogene Transcription Factor Family Expression and Interaction with the Notch-Hes Pathway in Mouse Neurogenesis. <i>PLoS ONE</i> , 2008, 3, e3859.	1.1	113
12	Fgf8 controls regional identity in the developing thalamus. <i>Development (Cambridge)</i> , 2008, 135, 2873-2881.	1.2	101
13	Fibroblast Growth Factor 8 Regulates Neocortical Guidance of Area-Specific Thalamic Innervation. <i>Journal of Neuroscience</i> , 2005, 25, 6550-6560.	1.7	100
14	FGF8 acts as a classic diffusible morphogen to pattern the neocortex. <i>Development (Cambridge)</i> , 2010, 137, 3439-3448.	1.2	92
15	Three-dimensional diffusion tensor microimaging for anatomical characterization of the mouse brain. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 249-261.	1.9	90
16	BTBD3 Controls Dendrite Orientation Toward Active Axons in Mammalian Neocortex. <i>Science</i> , 2013, 342, 1114-1118.	6.0	90
17	Semaphorin 6D reverse signaling controls macrophage lipid metabolism and anti-inflammatory polarization. <i>Nature Immunology</i> , 2018, 19, 561-570.	7.0	90
18	FUS/TLS deficiency causes behavioral and pathological abnormalities distinct from amyotrophic lateral sclerosis. <i>Acta Neuropathologica Communications</i> , 2015, 3, 24.	2.4	82

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19	Segregation of Ipsilateral Retinal Ganglion Cell Axons at the Optic Chiasm Requires the Shh Receptor. <i>Boc. Journal of Neuroscience</i> , 2010, 30, 266-275.	1.7	77
20	Anti-tumor activity of antizyme which targets the ornithine decarboxylase (ODC) required for cell growth and transformation. <i>Oncogene</i> , 1999, 18, 165-172.	2.6	73
21	Comparative Anatomy of Marmoset and Mouse Cortex from Genomic Expression. <i>Journal of Neuroscience</i> , 2012, 32, 5039-5053.	1.7	72
22	Gene application with <i>in utero</i> electroporation in mouse embryonic brain. <i>Development Growth and Differentiation</i> , 2008, 50, 499-506.	0.6	71
23	Molecular Pathways Controlling Development of Thalamus and Hypothalamus: From Neural Specification to Circuit Formation. <i>Journal of Neuroscience</i> , 2010, 30, 14925-14930.	1.7	71
24	Sonic Hedgehog Is a Remotely Produced Cue that Controls Axon Guidance Trans-axonally at a Midline Choice Point. <i>Neuron</i> , 2018, 97, 326-340.e4.	3.8	66
25	Dynamic spatiotemporal gene expression in embryonic mouse thalamus. <i>Journal of Comparative Neurology</i> , 2011, 519, 528-543.	0.9	65
26	Retinal Input Directs the Recruitment of Inhibitory Interneurons into Thalamic Visual Circuits. <i>Neuron</i> , 2014, 81, 1057-1069.	3.8	63
27	Singular localization of sodium channel $\beta$ 4 subunit in unmyelinated fibres and its role in the striatum. <i>Nature Communications</i> , 2014, 5, 5525.	5.8	61
28	Depletion of p62 reduces nuclear inclusions and paradoxically ameliorates disease phenotypes in Huntington's model mice. <i>Human Molecular Genetics</i> , 2015, 24, 1092-1105.	1.4	56
29	Rapid dissemination of alpha-synuclein seeds through neural circuits in an in-vivo prion-like seeding experiment. <i>Acta Neuropathologica Communications</i> , 2018, 6, 96.	2.4	56
30	Evolutionarily conserved regulation of hypocretin neuron specification by Lhx9. <i>Development (Cambridge)</i> , 2015, 142, 1113-24.	1.2	55
31	Region-specific gene expression in early postnatal mouse thalamus. <i>Journal of Comparative Neurology</i> , 2011, 519, 544-561.	0.9	53
32	Mouse <i>Fgf8</i> -Cre lineage analysis defines the territory of the postnatal mammalian isthmus. <i>Journal of Comparative Neurology</i> , 2017, 525, 2782-2799.	0.9	50
33	Dual origins of the mammalian accessory olfactory bulb revealed by an evolutionarily conserved migratory stream. <i>Nature Neuroscience</i> , 2013, 16, 157-165.	7.1	47
34	The Indirect Role of Fibroblast Growth Factor-8 in Defining Neurogenic Niches of the Olfactory/GnRH Systems. <i>Journal of Neuroscience</i> , 2013, 33, 19620-19634.	1.7	47
35	Mouse <i>in Utero</i> Electroporation: Controlled Spatiotemporal Gene Transfection. <i>Journal of Visualized Experiments</i> , 2011, , .	0.2	41
36	Early B-cell factors 2 and 3 (EBF2/3) regulate early migration of Cajal-Retzius cells from the cortical hem. <i>Developmental Biology</i> , 2012, 365, 277-289.	0.9	41

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37	Dual midbrain and forebrain origins of thalamic inhibitory interneurons. <i>ELife</i> , 2021, 10, .	2.8	40
38	NF-Y inactivation causes atypical neurodegeneration characterized by ubiquitin and p62 accumulation and endoplasmic reticulum disorganization. <i>Nature Communications</i> , 2014, 5, 3354.	5.8	38
39	ECHO-liveFISH: <i>in vivo</i> RNA labeling reveals dynamic regulation of nuclear RNA foci in living tissues. <i>Nucleic Acids Research</i> , 2015, 43, e126-e126.	6.5	38
40	Digital gene atlas of neonate common marmoset brain. <i>Neuroscience Research</i> , 2018, 128, 1-13.	1.0	37
41	Diversity of thalamic progenitor cells and postmitotic neurons. <i>European Journal of Neuroscience</i> , 2012, 35, 1554-1562.	1.2	36
42	Migration of Founder Epithelial Cells Drives Proper Molar Tooth Positioning and Morphogenesis. <i>Developmental Cell</i> , 2015, 35, 713-724.	3.1	36
43	Cell-Autonomous Repression of Shh by Transcription Factor Pax6 Regulates Diencephalic Patterning by Controlling the Central Diencephalic Organizer. <i>Cell Reports</i> , 2014, 8, 1405-1418.	2.9	35
44	A SINE-Derived Element Constitutes a Unique Modular Enhancer for Mammalian Diencephalic Fgf8. <i>PLoS ONE</i> , 2012, 7, e43785.	1.1	33
45	Emergence of mammals by emergency: exaptation. <i>Genes To Cells</i> , 2010, 15, 801-812.	0.5	27
46	Reversal of axonal growth defects in an extraocular fibrosis model by engineering the kinesin-microtubule interface. <i>Nature Communications</i> , 2016, 7, 10058.	5.8	26
47	Gene regulatory networks controlling differentiation, survival, and diversification of hypothalamic Lhx6-expressing GABAergic neurons. <i>Communications Biology</i> , 2021, 4, 95.	2.0	26
48	Inhibition of Cell Growth by Combination of $\beta$ -Difluoromethylornithine and an Inhibitor of Spermine Synthase1. <i>Journal of Biochemistry</i> , 1995, 117, 824-829.	0.9	25
49	Cellular-resolution gene expression profiling in the neonatal marmoset brain reveals dynamic species- and region-specific differences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	24
50	Spermidine Regulation of Protein Synthesis at the Level of Initiation Complex Formation of Met-tRNAi,mRNA and Ribosomes. <i>Biochemical and Biophysical Research Communications</i> , 1996, 223, 544-548.	1.0	23
51	Genetically Encoded Fluorescent Indicator GRAPHIC Delineates Intercellular Connections. <i>IScience</i> , 2019, 15, 28-38.	1.9	21
52	Serine 403-phosphorylated p62/SQSTM1 immunoreactivity in inclusions of neurodegenerative diseases. <i>Neuroscience Research</i> , 2016, 103, 64-70.	1.0	18
53	The role of Fgf8 in telencephalic and diencephalic patterning. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 719-725.	2.3	17
54	FUS/TLS acts as an aggregation-dependent modifier of polyglutamine disease model mice. <i>Scientific Reports</i> , 2016, 6, 35236.	1.6	17

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55	Proteomics-Based Approach Identifies Altered ER Domain Properties by ALS-Linked VAPB Mutation. <i>Scientific Reports</i> , 2020, 10, 7610.	1.6	17
56	Nucleocytoplasmic Shuttling of Histone Deacetylase 9 Controls Activity-Dependent Thalamocortical Axon Branching. <i>Scientific Reports</i> , 2017, 7, 6024.	1.6	13
57	Enhancement of Helicase Activity and Increase of eIF-4E Phosphorylation in Ornithine Decarboxylase-Overproducing Cells. <i>Biochemical and Biophysical Research Communications</i> , 1996, 222, 748-752.	1.0	11
58	Large-Scale RNA Interference Screening in Mammalian Cells Identifies Novel Regulators of Mutant Huntingtin Aggregation. <i>PLoS ONE</i> , 2014, 9, e93891.	1.1	10
59	Genome-wide analyses in neuronal cells reveal that upstream transcription factors regulate lysosomal gene expression. <i>FEBS Journal</i> , 2016, 283, 1077-1087.	2.2	10
60	Differential roles of NF-Y transcription factor in ER chaperone expression and neuronal maintenance in the CNS. <i>Scientific Reports</i> , 2016, 6, 34575.	1.6	10
61	The polymicrogyria-associated GPR56 promoter preferentially drives gene expression in developing GABAergic neurons in common marmosets. <i>Scientific Reports</i> , 2020, 10, 21516.	1.6	10
62	FACS-array-based cell purification yields a specific transcriptome of striatal medium spiny neurons in a murine Huntington disease model. <i>Journal of Biological Chemistry</i> , 2020, 295, 9768-9785.	1.6	9
63	Diffusible GRAPHIC to visualize morphology of cells after specific cell-cell contact. <i>Scientific Reports</i> , 2020, 10, 14437.	1.6	8
64	Role of an Atypical Cadherin Gene, <i>Cdh23</i> in Prepulse Inhibition, and Implication of <i>CDH23</i> in Schizophrenia. <i>Schizophrenia Bulletin</i> , 2021, 47, 1190-1200.	2.3	7
65	Gene expression profiling in neuronal cells identifies a different type of transcriptome modulated by NF-Y. <i>Scientific Reports</i> , 2020, 10, 21714.	1.6	4
66	Different regulation of limb development by p63 transcript variants. <i>PLoS ONE</i> , 2017, 12, e0174122.	1.1	4
67	Hornerin deposits in neuronal intranuclear inclusion disease: direct identification of proteins with compositionally biased regions in inclusions. <i>Acta Neuropathologica Communications</i> , 2022, 10, 28.	2.4	4
68	Subcortical and Neocortical Guidance of Area-specific Thalamic Innervation. , 2006, , 42-53.		1
69	Practical Application of Microelectroporation into Developing Mouse Brain. , 2009, , 153-167.		1
70	LGI mRNA expression in the developing mouse brain. <i>Neuroscience Research</i> , 2010, 68, e371.	1.0	0
71	Optical Recording of Electrical Activity of Cortical Layer 2/3 Pyramidal Neurons Using A Genetically-Encoded Voltage Probe. <i>Biophysical Journal</i> , 2010, 98, 214a-215a.	0.2	0
72	Spatially restricted long-term transgene expression in the developing skin used for studying the interaction of epidermal development and sensory innervation. <i>Development Growth and Differentiation</i> , 2019, 61, 276-282.	0.6	0

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73	Molecular cell identities in the mediodorsal thalamus of infant mice and marmoset. <i>Journal of Comparative Neurology</i> , 2022, 530, 963-977.	0.9	0