

# Masayuki Masu

## List of Publications by Year in descending order

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48  
papers

9,368  
citations

201385

27  
h-index

223531

46  
g-index

50  
all docs

50  
docs citations

50  
times ranked

6348  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular cloning and characterization of the rat NMDA receptor. <i>Nature</i> , 1991, 354, 31-37.	13.7	1,738
2	Sequence and expression of a metabotropic glutamate receptor. <i>Nature</i> , 1991, 349, 760-765.	13.7	1,211
3	A family of metabotropic glutamate receptors. <i>Neuron</i> , 1992, 8, 169-179.	3.8	992
4	Deleted in Colorectal Cancer (DCC) Encodes a Netrin Receptor. <i>Cell</i> , 1996, 87, 175-185.	13.5	934
5	Phenotype of mice lacking functional Deleted in colorectal cancer (Dec) gene. <i>Nature</i> , 1997, 386, 796-804.	13.7	717
6	Structure and functional expression of the cloned rat neurotensin receptor. <i>Neuron</i> , 1990, 4, 847-854.	3.8	506
7	Structures and properties of seven isoforms of the NMDA receptor generated by alternative splicing. <i>Biochemical and Biophysical Research Communications</i> , 1992, 185, 826-832.	1.0	501
8	Vertebrate homologues of <i>C. elegans</i> UNC-5 are candidate netrin receptors. <i>Nature</i> , 1997, 386, 833-838.	13.7	474
9	Specific deficit of the ON response in visual transmission by targeted disruption of the mGluR6 gene. <i>Cell</i> , 1995, 80, 757-765.	13.5	452
10	Glutamate receptors: brain function and signal transduction1Published on the World Wide Web on 21 October 1997.1. <i>Brain Research Reviews</i> , 1998, 26, 230-235.	9.1	297
11	Agonist analysis of 2-((carboxycyclopropyl)glycine isomers for cloned metabotropic glutamate receptor subtypes expressed in Chinese hamster ovary cells. <i>British Journal of Pharmacology</i> , 1992, 107, 539-543.	2.7	184
12	Distribution of Cystine/Glutamate Exchange Transporter, System x <sub>c</sub> <sup>-</sup> , in the Mouse Brain. <i>Journal of Neuroscience</i> , 2002, 22, 8028-8033.	1.7	151
13	Autotaxin expression from synovial fibroblasts is essential for the pathogenesis of modeled arthritis. <i>Journal of Experimental Medicine</i> , 2012, 209, 925-933.	4.2	143
14	Specific and flexible roles of heparan sulfate modifications in <i>Drosophila</i> FGF signaling. <i>Journal of Cell Biology</i> , 2006, 174, 773-778.	2.3	124
15	Organ-specific Sulfation Patterns of Heparan Sulfate Generated by Extracellular Sulfatases Sulf1 and Sulf2 in Mice. <i>Journal of Biological Chemistry</i> , 2012, 287, 9579-9590.	1.6	84
16	Identification of a novel nonlysosomal sulphatase expressed in the floor plate, choroid plexus and cartilage. <i>Genes To Cells</i> , 2002, 7, 173-185.	0.5	81
17	The mGluR6 5' Upstream Transgene Sequence Directs a Cell-Specific and Developmentally Regulated Expression in Retinal Rod and ON-Type Cone Bipolar Cells. <i>Journal of Neuroscience</i> , 1997, 17, 3014-3023.	1.7	72
18	Ccd1, a Novel Protein with a DIX Domain, Is a Positive Regulator in the Wnt Signaling during Zebrafish Neural Patterning. <i>Current Biology</i> , 2003, 13, 73-77.	1.8	70

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19	The N-terminal hydrophobic sequence of autotaxin (ENPP2) functions as a signal peptide. <i>Genes To Cells</i> , 2006, 11, 133-142.	0.5	67
20	Molecular Characterization of NMDA and Metabotropic Glutamate Receptors. <i>Annals of the New York Academy of Sciences</i> , 1993, 707, 153-164.	1.8	56
21	A SnoNâ€Ccd1 Pathway Promotes Axonal Morphogenesis in the Mammalian Brain. <i>Journal of Neuroscience</i> , 2009, 29, 4312-4321.	1.7	56
22	Autotaxin/Lysophospholipase D-mediated Lysophosphatidic Acid Signaling Is Required to Form Distinctive Large Lysosomes in the Visceral Endoderm Cells of the Mouse Yolk Sac. <i>Journal of Biological Chemistry</i> , 2009, 284, 33561-33570.	1.6	46
23	Migration and nucleogenesis of mouse precerebellar neurons visualized by in utero electroporation of a green fluorescent protein gene. <i>Neuroscience Research</i> , 2007, 57, 40-49.	1.0	45
24	Expression of a heparan sulfate remodeling enzyme, heparan sulfate 6-O-endosulfatase sulfatase FP2, in the rat nervous system. <i>Developmental Brain Research</i> , 2005, 159, 135-143.	2.1	37
25	Impaired vascular remodeling in the yolk sac of embryos deficient in ROCK-I and ROCK-II. <i>Genes To Cells</i> , 2011, 16, 1012-1021.	0.5	33
26	Autotaxin is required for the cranial neural tube closure and establishment of the midbrainâ€hindbrain boundary during mouse development. <i>Developmental Dynamics</i> , 2011, 240, 413-421.	0.8	33
27	Proteoglycans and axon guidance: a new relationship between old partners. <i>Journal of Neurochemistry</i> , 2016, 139, 58-75.	2.1	32
28	Deficiency of autotaxin/lysophospholipase D results in head cavity formation in mouse embryos through the LPA receptor-Rho-ROCK pathway. <i>Biochemical and Biophysical Research Communications</i> , 2010, 400, 66-71.	1.0	27
29	Characterization of Excitatory Amino Acid Neurotoxicity in N-methyl-D-aspartate Receptor-deficient Mouse Cortical Neuronal Cells. <i>European Journal of Neuroscience</i> , 1996, 8, 69-78.	1.2	25
30	Identification and differential expression of multiple isoforms of mouse Coiled-coil-DIX1 (Ccd1), a positive regulator of Wnt signaling. <i>Molecular Brain Research</i> , 2005, 135, 169-180.	2.5	25
31	Desulfation of Heparan Sulfate by Sulf1 and Sulf2 Is Required for Corticospinal Tract Formation. <i>Scientific Reports</i> , 2017, 7, 13847.	1.6	22
32	Heparan sulfate 6-O-endosulfatases, Sulf1 and Sulf2, regulate glomerular integrity by modulating growth factor signaling. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 310, F395-F408.	1.3	19
33	Remarkable complexity and variability of corticospinal tract defects in adult Semaphorin 6A knockout mice. <i>Brain Research</i> , 2019, 1710, 209-219.	1.1	19
34	Genetic marking of hematopoietic stem and endothelial cells: identification of the Tmtsp gene encoding a novel cell surface protein with the thrombospondin-1 domain. <i>Blood</i> , 2006, 107, 4317-4325.	0.6	15
35	Expression of mouse Coiled-coil-DIX1 (Ccd1), a positive regulator of Wnt signaling, during embryonic development. <i>Gene Expression Patterns</i> , 2006, 6, 325-330.	0.3	15
36	Sulfatase 2 Modulates Fate Change from Motor Neurons to Oligodendrocyte Precursor Cells through Coordinated Regulation of Shh Signaling with Sulfatase 1. <i>Developmental Neuroscience</i> , 2017, 39, 361-374.	1.0	15

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37	Proteolytic cleavage of the rat heparan sulfate 6-O-endosulfatase SulfFP2 by furin-type proprotein convertases. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 107-112.	1.0	10
38	Expression of the heparan sulfate 6-O-endosulfatases, Sulf1 and Sulf2, in the avian and mammalian inner ear suggests a role for sulfation during inner ear development. <i>Developmental Dynamics</i> , 2015, 244, 168-180.	0.8	8
39	Abnormal Pyramidal Decussation and Bilateral Projection of the Corticospinal Tract Axons in Mice Lacking the Heparan Sulfate Endosulfatases, Sulf1 and Sulf2. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 333.	1.4	8
40	ErbB2 Dephosphorylation and Anti-Proliferative Effects of Neuregulin-1 in ErbB2-Overexpressing Cells; Re-evaluation of Their Low-Affinity Interaction. <i>Scientific Reports</i> , 2013, 3, 1402.	1.6	7
41	Structural basis for Ccd1 auto-inhibition in the Wnt pathway through homomerization of the DIX domain. <i>Scientific Reports</i> , 2017, 7, 7739.	1.6	6
42	A unique mouse model for investigating the properties of amyotrophic lateral sclerosis-associated protein TDP-43, by in utero electroporation. <i>Neuroscience Research</i> , 2013, 77, 234-241.	1.0	4
43	Regulation of fractone heparan sulfate composition in young and aged subventricular zone neurogenic niches. <i>Glycobiology</i> , 2021, , .	1.3	4
44	Crystallographic characterization of the DIX domain of the Wnt signalling positive regulator Ccd1. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 758-761.	0.7	1
45	Data for 3D reconstruction of the corticospinal tract in the wild-type and Semaphorin 6A knockout adult brain. <i>Data in Brief</i> , 2019, 23, 103718.	0.5	1
46	Expression of Heparan Sulfate Endosulfatases in the Adult Mouse Brain: Co-expression of Sulf1 and Dopamine D1/D2 Receptors. <i>Frontiers in Neuroanatomy</i> , 2021, 15, 726718.	0.9	1
47	Heparan Sulfate Endosulfatase Assay. , 2008, , 123-124.		0
48	Diffusion magnetic resonance tractography-based evaluation of commissural fiber abnormalities in a heparan sulfate endosulfatase-deficient mouse brain. <i>Magnetic Resonance Imaging</i> , 2022, 88, 123-123.	1.0	0