

# Kenji Uchimura

## List of Publications by Citations

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88

papers

3,430

citations

32

h-index

57

g-index

92

ext. papers

3,856

ext. citations

5.3

avg, IF

4.76

L-index

#	Paper	IF	Citations
88	Minocycline selectively inhibits M1 polarization of microglia. <i>Cell Death and Disease</i> , <b>2013</b> , 4, e525	9.8	432
87	Cloning and characterization of two extracellular heparin-degrading endosulfatases in mice and humans. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 49175-85	5.4	320
86	HSulf-2, an extracellular endoglucosamine-6-sulfatase, selectively mobilizes heparin-bound growth factors and chemokines: effects on VEGF, FGF-1, and SDF-1. <i>BMC Biochemistry</i> , <b>2006</b> , 7, 2	4.8	171
85	A major class of L-selectin ligands is eliminated in mice deficient in two sulfotransferases expressed in high endothelial venules. <i>Nature Immunology</i> , <b>2005</b> , 6, 1105-13	19.1	148
84	N-acetylglucosamine-6-O-sulfotransferases 1 and 2 cooperatively control lymphocyte homing through L-selectin ligand biosynthesis in high endothelial venules. <i>Nature Immunology</i> , <b>2005</b> , 6, 1096-104	19.1	146
83	Molecular cloning and characterization of an N-acetylglucosamine-6-O-sulfotransferase. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 22577-83	5.4	126
82	Reconstitution of functional L-selectin ligands on a cultured human endothelial cell line by cotransfection of alpha1-->3 fucosyltransferase VII and newly cloned GlcNAc-beta:6-sulfotransferase cDNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 4530-5	11.5	120
81	Sulf-2, a proangiogenic heparan sulfate endosulfatase, is upregulated in breast cancer. <i>Neoplasia</i> , <b>2005</b> , 7, 1001-10	6.4	118
80	Molecular cloning and expression of chick chondrocyte chondroitin 6-sulfotransferase. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 18575-80	5.4	103
79	Interaction of the selectin ligand PSGL-1 with chemokines CCL21 and CCL19 facilitates efficient homing of T cells to secondary lymphoid organs. <i>Nature Immunology</i> , <b>2007</b> , 8, 532-9	19.1	93
78	Compositional profiling of heparin/heparan sulfate using mass spectrometry: assay for specificity of a novel extracellular human endosulfatase. <i>Glycobiology</i> , <b>2005</b> , 15, 818-26	5.8	85
77	Sulfated L-selectin ligands as a therapeutic target in chronic inflammation. <i>Trends in Immunology</i> , <b>2006</b> , 27, 559-65	14.4	84
76	Human N-acetylglucosamine-6-O-sulfotransferase involved in the biosynthesis of 6-sulfo sialyl Lewis X: molecular cloning, chromosomal mapping, and expression in various organs and tumor cells. <i>Journal of Biochemistry</i> , <b>1998</b> , 124, 670-8	3.1	76
75	Molecular cloning and expression of human chondroitin 6-sulfotransferase. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , <b>1998</b> , 1399, 57-61		68
74	Direct detection of HSulf-1 and HSulf-2 activities on extracellular heparan sulfate and their inhibition by PI-88. <i>Glycobiology</i> , <b>2010</b> , 20, 175-86	5.8	66
73	N-Acetylglucosamine 6-O-sulfotransferase-1 is required for brain keratan sulfate biosynthesis and glial scar formation after brain injury. <i>Glycobiology</i> , <b>2006</b> , 16, 702-10	5.8	61
72	N-acetylglucosamine 6-O-sulfotransferase-1 regulates expression of L-selectin ligands and lymphocyte homing. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 35001-8	5.4	60

71	Functional analysis of the chondroitin 6-sulfotransferase gene in relation to lymphocyte subpopulations, brain development, and oversulfated chondroitin sulfates. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 1443-50	5.4	58
70	Development of structural analysis of sulfated N-glycans by multidimensional high performance liquid chromatography mapping methods. <i>Glycobiology</i> , <b>2005</b> , 15, 1051-60	5.8	57
69	Lipoprotein lipase is a novel amyloid beta (Abeta)-binding protein that promotes glycosaminoglycan-dependent cellular uptake of Abeta in astrocytes. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 6393-401	5.4	49
68	Specificities of N-acetylglucosamine-6-O-sulfotransferases in relation to L-selectin ligand synthesis and tumor-associated enzyme expression. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 3979-84	5.4	47
67	Enzymatic sulfation of galactose residue of keratan sulfate by chondroitin 6-sulfotransferase. <i>Glycobiology</i> , <b>1996</b> , 6, 51-7	5.8	45
66	Distinct sulfation requirements of selectins disclosed using cells that support rolling mediated by all three selectins under shear flow. L-selectin prefers carbohydrate 6-sulfation to tyrosine sulfation, whereas p-selectin does not. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 32578-86	5.4	43
65	Glycan sulfation patterns define autophagy flux at axon tip via PTPRCortactin axis. <i>Nature Chemical Biology</i> , <b>2019</b> , 15, 699-709	11.7	42
64	Brain keratan sulfate and glial scar formation. <i>Annals of the New York Academy of Sciences</i> , <b>2006</b> , 1086, 81-90	6.5	42
63	Mouse chondroitin 6-sulfotransferase: molecular cloning, characterization and chromosomal mapping. <i>Glycobiology</i> , <b>1998</b> , 8, 489-96	5.8	41
62	Targeted delivery of immune therapeutics to lymph nodes prolongs cardiac allograft survival. <i>Journal of Clinical Investigation</i> , <b>2018</b> , 128, 4770-4786	15.9	38
61	Ablation of keratan sulfate accelerates early phase pathogenesis of ALS. <i>PLoS ONE</i> , <b>2013</b> , 8, e66969	3.7	37
60	Galactose 6-O-sulfotransferases are not required for the generation of Siglec-F ligands in leukocytes or lung tissue. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 26533-45	5.4	35
59	Diversity of N-acetylglucosamine-6-O-sulfotransferases: molecular cloning of a novel enzyme with different distribution and specificities. <i>Biochemical and Biophysical Research Communications</i> , <b>2000</b> , 274, 291-6	3.4	35
58	Deficiency of a sulfotransferase for sialic acid-modified glycans mitigates Alzheimer's pathology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E2947-E2954 <sup>11.5</sup>		32
57	Embigin/basigin subgroup of the immunoglobulin superfamily: different modes of expression during mouse embryogenesis and correlated expression with carbohydrate antigenic markers. <i>Development Growth and Differentiation</i> , <b>1998</b> , 40, 277-86	3	32
56	Heparan sulfate subdomains that are degraded by Sulf accumulate in cerebral amyloid plaques of Alzheimer's disease: evidence from mouse models and patients. <i>American Journal of Pathology</i> , <b>2012</b> , 180, 2056-67	5.8	31
55	Keratan sulfate: biosynthesis, structures, and biological functions. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1229, 389-400	1.4	31
54	KSGal6ST generates galactose-6-O-sulfate in high endothelial venules but does not contribute to L-selectin-dependent lymphocyte homing. <i>Glycobiology</i> , <b>2013</b> , 23, 381-94	5.8	29

53	Microglial keratan sulfate epitope elicits in central nervous tissues of transgenic model mice and patients with amyotrophic lateral sclerosis. <i>American Journal of Pathology</i> , <b>2015</b> , 185, 3053-65	5.8	24
52	KSGal6ST is essential for the 6-sulfation of galactose within keratan sulfate in early postnatal brain. <i>Journal of Histochemistry and Cytochemistry</i> , <b>2014</b> , 62, 145-56	3.4	24
51	Measuring the activities of the Sulfs: two novel heparin/heparan sulfate endosulfatases. <i>Methods in Enzymology</i> , <b>2006</b> , 416, 243-53	1.7	23
50	A novel human Gal-3-O-sulfotransferase: molecular cloning, characterization, and its implications in biosynthesis of (SO(4)-3)Galbeta1-4(Fucalpha1-3)GlcNAc. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 26988-94	5.4	22
49	Cellular interaction and cytotoxicity of the iowa mutation of apolipoprotein A-I (ApoA-IIowa) amyloid mediated by sulfate moieties of heparan sulfate. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 24210-21	5.4	21
48	Requirement of keratan sulfate proteoglycan phosphacan with a specific sulfation pattern for critical period plasticity in the visual cortex. <i>Experimental Neurology</i> , <b>2015</b> , 274, 145-55	5.7	21
47	Sulfated glycosaminoglycans in protein aggregation diseases. <i>Glycoconjugate Journal</i> , <b>2017</b> , 34, 453-466	3	17
46	Spatially and temporally regulated expression of N-acetylglucosamine-6-O-sulfotransferase during mouse embryogenesis. <i>Glycobiology</i> , <b>1999</b> , 9, 947-55	5.8	17
45	Keratan Sulfate Regulates the Switch from Motor Neuron to Oligodendrocyte Generation During Development of the Mouse Spinal Cord. <i>Neurochemical Research</i> , <b>2016</b> , 41, 450-62	4.6	15
44	Porcine alpha-1,3-galactosyltransferase: full length cDNA cloning, genomic organization, and analysis of splicing variants. <i>Glycoconjugate Journal</i> , <b>1998</b> , 15, 583-9	3	15
43	Growth Factor Midkine Promotes T-Cell Activation through Nuclear Factor of Activated T Cells Signaling and Th1 Cell Differentiation in Lupus Nephritis. <i>American Journal of Pathology</i> , <b>2017</b> , 187, 740-751	5.8	14
42	Novel Extracellular Sulfatases: Potential Roles in Cancer.. <i>Trends in Glycoscience and Glycotechnology</i> , <b>2003</b> , 15, 159-164	0.1	13
41	Glycosylation changes in inflammatory diseases. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2020</b> , 119, 111-156	5.3	13
40	Apical membrane expression of distinct sulfated glycans represents a novel marker of cholangiolocellular carcinoma. <i>Laboratory Investigation</i> , <b>2016</b> , 96, 1246-1255	5.9	11
39	Enthalpy-driven interactions with sulfated glycosaminoglycans promote cell membrane penetration of arginine peptides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2016</b> , 1858, 1339-49	3.8	11
38	GlcNAc6ST3 is a keratan sulfate sulfotransferase for the protein-tyrosine phosphatase PTPRZ in the adult brain. <i>Scientific Reports</i> , <b>2019</b> , 9, 4387	4.9	10
37	Expression of long-form N-acetylglucosamine-6-O-sulfotransferase 1 in human high endothelial venules. <i>Journal of Histochemistry and Cytochemistry</i> , <b>2012</b> , 60, 397-407	3.4	10
36	Determination of substrate specificity of sulfotransferases and glycosyltransferases (proteoglycans). <i>Methods in Enzymology</i> , <b>2006</b> , 416, 225-43	1.7	10

35	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> , <b>2017</b> , 39, 361-374	2.2	9
34	Correction of spherical aberration in multi-focal multiphoton microscopy with spatial light modulator. <i>Optics Express</i> , <b>2017</b> , 25, 7055-7068	3.3	9
33	Midkine expression is associated with postnatal development of the lungs. <i>Cell Structure and Function</i> , <b>2002</b> , 27, 109-15	2.2	9
32	Simultaneous targeting of primary tumor, draining lymph node, and distant metastases through high endothelial venule-targeted delivery. <i>Nano Today</i> , <b>2021</b> , 36,	17.9	9
31	GlcNAc6ST-1 regulates sulfation of N-glycans and myelination in the peripheral nervous system. <i>Scientific Reports</i> , <b>2017</b> , 7, 42257	4.9	8
30	Iowa Mutant Apolipoprotein A-I (ApoA-IIowa) Fibrils Target Lysosomes. <i>Scientific Reports</i> , <b>2016</b> , 6, 30391	4.9	8
29	A novel amphipathic cell-penetrating peptide based on the N-terminal glycosaminoglycan binding region of human apolipoprotein E. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2019</b> , 1861, 541-549	3.8	8
28	RB4CD12 epitope expression and heparan sulfate disaccharide composition in brain vasculature. <i>Journal of Neuroscience Research</i> , <b>2011</b> , 89, 1840-8	4.4	7
27	Use of a phage display antibody to measure the enzymatic activity of the Sulfs. <i>Methods in Enzymology</i> , <b>2010</b> , 480, 51-64	1.7	7
26	Reduced molecular size and altered disaccharide composition of cerebral chondroitin sulfate upon Alzheimer's pathogenesis in mice. <i>Nagoya Journal of Medical Science</i> , <b>2016</b> , 78, 293-301	0.7	7
25	Enzymatic remodeling of heparan sulfate: a therapeutic strategy for systemic and localized amyloidoses?. <i>Neural Regeneration Research</i> , <b>2016</b> , 11, 408-9	4.5	7
24	The polyphenol (-)-epigallocatechin-3-gallate prevents apoA-IIowa amyloidosis in vitro and protects human embryonic kidney 293 cells against amyloid cytotoxicity. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , <b>2014</b> , 22, 17-25	2.7	6
23	Sulfated glycosaminoglycans mediate prion-like behavior of p53 aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 33225-33234	11.5	6
22	Enhancement of direct membrane penetration of arginine-rich peptides by polyproline II helix structure. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2020</b> , 1862, 183403	3.8	4
21	Role of MAdCAM-1-Expressing High Endothelial Venule-Like Vessels in Colitis Induced in Mice Lacking Sulfotransferases Catalyzing L-Selectin Ligand Biosynthesis. <i>Journal of Histochemistry and Cytochemistry</i> , <b>2018</b> , 66, 415-425	3.4	4
20	Time-dependent localization of high- and low-sulfated keratan sulfates in the song nuclei of developing zebra finches. <i>European Journal of Neuroscience</i> , <b>2015</b> , 42, 2716-25	3.5	4
19	N-acetylglucosamine-6-O-sulfotransferase-1: production in the baculovirus system and its applications to the synthesis of a sulfated oligosaccharide and to the modification of oligosaccharides in fibrinogen. <i>Journal of Biochemistry</i> , <b>2003</b> , 133, 287-93	3.1	4
18	The Sulfs: expression, purification, and substrate specificity. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1229, 401-12	1.4	3

17	Apical Membrane Expression of Distinct Sulfated Glycans Is a Characteristic Feature of Ductules and Their Reactive and Neoplastic Counterparts. <i>Journal of Histochemistry and Cytochemistry</i> , <b>2021</b> , 69, 555-573	3.4	3
16	Arginine-Glycosaminoglycan Interaction Regulates Penetration Efficiency of Arginine-Rich Cell-Penetrating Peptides in Biological Membrane. <i>Biophysical Journal</i> , <b>2015</b> , 108, 82a	2.9	2
15	Thrombospondin type 1 repeat-derived C-mannosylated peptide attenuates synaptogenesis of cortical neurons induced by primary astrocytes via TGF- $\beta$ . <i>Glycoconjugate Journal</i> , <b>2021</b> , 1	3	2
14	Cell-to-cell transmission of p53 aggregates: a novel player in oncology?. <i>Molecular and Cellular Oncology</i> , <b>2021</b> , 8, 1892444	1.2	2
13	A Shift in Tissue Stiffness During Hippocampal Maturation Correlates to the Pattern of Neurogenesis and Composition of the Extracellular Matrix. <i>Frontiers in Aging Neuroscience</i> , <b>2021</b> , 13, 709620	5.3	2
12	The Accumulation of Heparan Sulfate S-Domains in Kidney Transthyretin Deposits Accelerates Fibril Formation and Promotes Cytotoxicity. <i>American Journal of Pathology</i> , <b>2019</b> , 189, 308-319	5.8	2
11	Effect of hydrophobic moment on membrane interaction and cell penetration of apolipoprotein E-derived arginine-rich amphipathic helical peptides.. <i>Scientific Reports</i> , <b>2022</b> , 12, 4959	4.9	2
10	Beta3Gn-T7 Is a Keratan Sulfate $\beta$ ,3 -Acetylglucosaminyltransferase in the Adult Brain.. <i>Frontiers in Neuroanatomy</i> , <b>2022</b> , 16, 813841	3.6	1
9	Extracellular endosulfatase Sulf-2 harbours a chondroitin/dermatan sulfate chain that modulates its enzyme activity		1
8	Extracellular endosulfatase Sulf-2 harbors a chondroitin/dermatan sulfate chain that modulates its enzyme activity.. <i>Cell Reports</i> , <b>2022</b> , 38, 110516	10.6	1
7	Phenotypic and molecular description of an individual with a disruptive variant in the SULF2 gene. <i>Clinical Dysmorphology</i> , <b>2020</b> , 29, 144-147	0.9	
6	N-acetylglucosamine-6-O-sulfotransferases <b>2008</b> , 83-86		
5	Sulfotransferases <b>2008</b> , 386-388		
4	Contribution of Sulfated Glycosaminoglycans to the Pathology of Amyloidosis. <i>Trends in Glycoscience and Glycotechnology</i> , <b>2021</b> , 33, E141-E145	0.1	
3	Contribution of Sulfated Glycosaminoglycans to the Pathology of Amyloidosis. <i>Trends in Glycoscience and Glycotechnology</i> , <b>2021</b> , 33, J141-J145	0.1	
2	N-Acetylglucosamine 6-O-Sulfotransferase <b>2002</b> , 429-433		
1	Carbohydrate (N-Acetylglucosamine-6-O) Sulfotransferase 2 (CHST2) <b>2014</b> , 997-1004		