

Kenji Uchimura

List of Publications by Year in descending order

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87
papers

4,286
citations

117625

34
h-index

114465

63
g-index

92
all docs

92
docs citations

92
times ranked

4291
citing authors

#	ARTICLE	IF	CITATIONS
1	Minocycline selectively inhibits M1 polarization of microglia. <i>Cell Death and Disease</i> , 2013, 4, e525-e525.	6.3	575
2	Cloning and Characterization of Two Extracellular Heparin-degrading Endosulfatases in Mice and Humans. <i>Journal of Biological Chemistry</i> , 2002, 277, 49175-49185.	3.4	378
3	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> , 2006, 7, 2.	4.4	192
4	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> , 2005, 6, 1096-1104.	14.5	170
5	A major class of L-selectin ligands is eliminated in mice deficient in two sulfotransferases expressed in high endothelial venules. <i>Nature Immunology</i> , 2005, 6, 1105-1113.	14.5	167
6	Molecular Cloning and Characterization of an N-Acetylglucosamine-6-O-sulfotransferase. <i>Journal of Biological Chemistry</i> , 1998, 273, 22577-22583.	3.4	152
7	Sulf-2, a Proangiogenic Heparan Sulfate Endosulfatase, Is Upregulated in Breast Cancer. <i>Neoplasia</i> , 2005, 7, 1001-1010.	5.3	138
8	Molecular Cloning and Expression of Chick Chondrocyte Chondroitin 6-Sulfotransferase. <i>Journal of Biological Chemistry</i> , 1995, 270, 18575-18580.	3.4	125
9	Reconstitution of functional L-selectin ligands on a cultured human endothelial cell line by cotransfection of $\alpha 1 \rightarrow 3$ fucosyltransferase VII and newly cloned GlcNAc 6-sulfotransferase cDNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 4530-4535.	7.1	125
10	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> , 2007, 8, 532-539.	14.5	110
11	Sulfated L-selectin ligands as a therapeutic target in chronic inflammation. <i>Trends in Immunology</i> , 2006, 27, 559-565.	6.8	102
12	Compositional profiling of heparin/heparan sulfate using mass spectrometry: assay for specificity of a novel extracellular human endosulfatase. <i>Glycobiology</i> , 2005, 15, 818-826.	2.5	93
13	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> , 1998, 124, 670-678.	1.7	87
14	Molecular cloning and expression of human chondroitin 6-sulfotransferase. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1998, 1399, 57-61.	2.4	85
15	Direct detection of HSulf-1 and HSulf-2 activities on extracellular heparan sulfate and their inhibition by PI-88. <i>Glycobiology</i> , 2010, 20, 175-186.	2.5	84
16	N-Acetylglucosamine 6-O-Sulfotransferase-1 Regulates Expression of L-Selectin Ligands and Lymphocyte Homing. <i>Journal of Biological Chemistry</i> , 2004, 279, 35001-35008.	3.4	74
17	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> , 2002, 277, 1443-1450.	3.4	71
18	Glycan sulfation patterns define autophagy flux at axon tip via PTPRif-cortactin axis. <i>Nature Chemical Biology</i> , 2019, 15, 699-709.	8.0	69

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19	N-Acetylglucosamine 6-O-sulfotransferase-1 is required for brain keratan sulfate biosynthesis and glial scar formation after brain injury. <i>Glycobiology</i> , 2006, 16, 702-710.	2.5	67
20	Development of structural analysis of sulfated N-glycans by multidimensional high performance liquid chromatography mapping methods. <i>Glycobiology</i> , 2005, 15, 1051-1060.	2.5	64
21	Lipoprotein Lipase Is a Novel Amyloid β^2 ($A\beta^2$)-binding Protein That Promotes Glycosaminoglycan-dependent Cellular Uptake of $A\beta^2$ in Astrocytes. <i>Journal of Biological Chemistry</i> , 2011, 286, 6393-6401.	3.4	59
22	Targeted delivery of immune therapeutics to lymph nodes prolongs cardiac allograft survival. <i>Journal of Clinical Investigation</i> , 2018, 128, 4770-4786.	8.2	59
23	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> , 2002, 277, 3979-3984.	3.4	58
24	Enzymatic sulfation of galactose residue of keratan sulfate by chondroitin 6-sulfotransferase. <i>Glycobiology</i> , 1996, 6, 51-57.	2.5	51
25	Distinct Sulfation Requirements of Selectins Disclosed Using Cells That Support Rolling Mediated by All Three Selectins under Shear Flow. <i>Journal of Biological Chemistry</i> , 2002, 277, 32578-32586.	3.4	48
26	Brain Keratan Sulfate and Glial Scar Formation. <i>Annals of the New York Academy of Sciences</i> , 2006, 1086, 81-90.	3.8	48
27	Mouse chondroitin 6-sulfotransferase: molecular cloning, characterization and chromosomal mapping. <i>Glycobiology</i> , 1998, 8, 489-496.	2.5	45
28	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> , 2000, 274, 291-296.	2.1	41
29	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> , 2013, 288, 26533-26545.	3.4	41
30	Ablation of Keratan Sulfate Accelerates Early Phase Pathogenesis of ALS. <i>PLoS ONE</i> , 2013, 8, e66969.	2.5	41
31	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> , 2017, 114, E2947-E2954.	7.1	40
32	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> , 1998, 40, 277-286.	1.5	39
33	Heparan Sulfate Subdomains that are Degraded by Sulf Accumulate in Cerebral Amyloid β Plaques of Alzheimer's Disease. <i>American Journal of Pathology</i> , 2012, 180, 2056-2067.	3.8	39
34	KSGal6ST generates galactose-6-O-sulfate in high endothelial venules but does not contribute to L-selectin-dependent lymphocyte homing. <i>Glycobiology</i> , 2013, 23, 381-394.	2.5	34
35	Keratan Sulfate: Biosynthesis, Structures, and Biological Functions. <i>Methods in Molecular Biology</i> , 2015, 1229, 389-400.	0.9	34
36	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> , 2015, 185, 3053-3065.	3.8	33

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37	Glycosylation changes in inflammatory diseases. <i>Advances in Protein Chemistry and Structural Biology</i> , 2020, 119, 111-156.	2.3	31
38	KSGal6ST Is Essential for the 6-Sulfation of Galactose within Keratan Sulfate in Early Postnatal Brain. <i>Journal of Histochemistry and Cytochemistry</i> , 2014, 62, 145-156.	2.5	29
39	A Novel Human Gal-3-O-Sulfotransferase. <i>Journal of Biological Chemistry</i> , 2001, 276, 26988-26994.	3.4	28
40	Measuring the Activities of the Sulfs: Two Novel Heparin/Heparan Sulfate Endosulfatases. <i>Methods in Enzymology</i> , 2006, 416, 243-253.	1.0	27
41	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> , 2015, 290, 24210-24221.	3.4	26
42	Sulfated glycosaminoglycans in protein aggregation diseases. <i>Glycoconjugate Journal</i> , 2017, 34, 453-466.	2.7	26
43	Requirement of keratan sulfate proteoglycan phosphacan with a specific sulfation pattern for critical period plasticity in the visual cortex. <i>Experimental Neurology</i> , 2015, 274, 145-155.	4.1	24
44	Simultaneous targeting of primary tumor, draining lymph node, and distant metastases through high endothelial venule-targeted delivery. <i>Nano Today</i> , 2021, 36, 101045.	11.9	24
45	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> , 2021, 13, 709620.	3.4	23
46	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> , 2017, 187, 740-751.	3.8	22
47	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> , 2019, 1861, 541-549.	2.6	20
48	Sulfated glycosaminoglycans mediate prion-like behavior of p53 aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33225-33234.	7.1	20
49	Spatially and temporally regulated expression of N-acetylglucosamine-6-O-sulfotransferase during mouse embryogenesis. <i>Glycobiology</i> , 1999, 9, 947-955.	2.5	18
50	Keratan Sulfate Regulates the Switch from Motor Neuron to Oligodendrocyte Generation During Development of the Mouse Spinal Cord. <i>Neurochemical Research</i> , 2016, 41, 450-462.	3.3	18
51	GlcNAc6ST3 is a keratan sulfate sulfotransferase for the protein-tyrosine phosphatase PTPRZ in the adult brain. <i>Scientific Reports</i> , 2019, 9, 4387.	3.3	18
52	Enthalpy-driven interactions with sulfated glycosaminoglycans promote cell membrane penetration of arginine peptides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1339-1349.	2.6	17
53	Apical membrane expression of distinct sulfated glycans represents a novel marker of cholangiolocellular carcinoma. <i>Laboratory Investigation</i> , 2016, 96, 1246-1255.	3.7	17
54	Porcine alpha-1,3-galactosyltransferase: full length cDNA cloning, genomic organization, and analysis of splicing variants. <i>Glycoconjugate Journal</i> , 1998, 15, 583-589.	2.7	16

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55	GlcNAc6ST-1 regulates sulfation of N-glycans and myelination in the peripheral nervous system. <i>Scientific Reports</i> , 2017, 7, 42257.	3.3	16
56	Enhancement of direct membrane penetration of arginine-rich peptides by polyproline II helix structure. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183403.	2.6	16
57	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.	2.0	15
58	Extracellular endosulfatase Sulf-2 harbors a chondroitin/dermatan sulfate chain that modulates its enzyme activity. <i>Cell Reports</i> , 2022, 38, 110516.	6.4	15
59	Effect of hydrophobic moment on membrane interaction and cell penetration of apolipoprotein E-derived arginine-rich amphipathic α -helical peptides. <i>Scientific Reports</i> , 2022, 12, 4959.	3.3	15
60	Iowa Mutant Apolipoprotein A-I (ApoA-IIowa) Fibrils Target Lysosomes. <i>Scientific Reports</i> , 2016, 6, 30391.	3.3	14
61	Novel Extracellular Sulfatases: Potential Roles in Cancer.. <i>Trends in Glycoscience and Glycotechnology</i> , 2003, 15, 159-164.	0.1	14
62	Expression of Long-form N-Acetylglucosamine-6-Sulfotransferase 1 in Human High Endothelial Venules. <i>Journal of Histochemistry and Cytochemistry</i> , 2012, 60, 397-407.	2.5	13
63	Correction of spherical aberration in multi-focal multiphoton microscopy with spatial light modulator. <i>Optics Express</i> , 2017, 25, 7055.	3.4	12
64	Midkine Expression is Associated with Postnatal Development of the Lungs.. <i>Cell Structure and Function</i> , 2002, 27, 109-115.	1.1	11
65	Determination of Substrate Specificity of Sulfotransferases and Glycosyltransferases (Proteoglycans). <i>Methods in Enzymology</i> , 2006, 416, 225-243.	1.0	10
66	Use of a Phage Display Antibody to Measure the Enzymatic Activity of the Sulfs. <i>Methods in Enzymology</i> , 2010, 480, 51-64.	1.0	9
67	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> , 2018, 66, 415-425.	2.5	8
68	Stepwise transmigration of T- and B cells through a perivascular channel in high endothelial venules. <i>Life Science Alliance</i> , 2021, 4, e202101086.	2.8	8
69	Enzymatic remodeling of heparan sulfate: a therapeutic strategy for systemic and localized amyloidoses?. <i>Neural Regeneration Research</i> , 2016, 11, 408.	3.0	8
70	RB4CD12 epitope expression and heparan sulfate disaccharide composition in brain vasculature. <i>Journal of Neuroscience Research</i> , 2011, 89, 1840-1848.	2.9	7
71	Reduced molecular size and altered disaccharide composition of cerebral chondroitin sulfate upon Alzheimer's pathogenesis in mice. <i>Nagoya Journal of Medical Science</i> , 2016, 78, 293-301.	0.3	7
72	The polyphenol (âˆ”)-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> , 2016, 23, 17-25.	3.0	6

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73	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> , 2021, 69, 555-573.	2.5	6
74	Time-dependent localization of high- and low-sulfated keratan sulfates in the song nuclei of developing zebra finches. <i>European Journal of Neuroscience</i> , 2015, 42, 2716-2725.	2.6	5
75	The Accumulation of Heparan Sulfate S-Domains in Kidney Transthyretin Deposits Accelerates Fibril Formation and Promotes Cytotoxicity. <i>American Journal of Pathology</i> , 2019, 189, 308-319.	3.8	5
76	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> , 2003, 133, 287-293.	1.7	4
77	The Sulfs: Expression, Purification, and Substrate Specificity. <i>Methods in Molecular Biology</i> , 2015, 1229, 401-412.	0.9	4
78	Beta3Gn-T7 Is a Keratan Sulfate 1,3 N-Acetylglucosaminyltransferase in the Adult Brain. <i>Frontiers in Neuroanatomy</i> , 2022, 16, 813841.	1.7	4
79	Cell-to-cell transmission of p53 aggregates: a novel player in oncology?. <i>Molecular and Cellular Oncology</i> , 2021, 8, 1892444.	0.7	3
80	Design and Synthesis of 6-Phosphorylated Heparan Sulfate Oligosaccharides to Inhibit Amyloid β^2 Aggregation. <i>ChemBioChem</i> , 2022, 23, .	2.6	3
81	Arginine-Glycosaminoglycan Interaction Regulates Penetration Efficiency of Arginine-Rich Cell-Penetrating Peptides in Biological Membrane. <i>Biophysical Journal</i> , 2015, 108, 82a.	0.5	2
82	Thrombospondin type 1 repeat-derived C-mannosylated peptide attenuates synaptogenesis of cortical neurons induced by primary astrocytes via TGF- β^2 . <i>Glycoconjugate Journal</i> , 2021, , 1.	2.7	2
83	Complementary Role of GlcNAc6ST2 and GlcNAc6ST3 in Synthesis of CL40-Reactive Sialylated and Sulfated Glycans in the Mouse Pleural Mesothelium. <i>Molecules</i> , 2022, 27, 4543.	3.8	1
84	Phenotypic and molecular description of an individual with a disruptive variant in the SULF2 gene. <i>Clinical Dysmorphology</i> , 2020, 29, 144-147.	0.3	0
85	Carbohydrate (N-Acetylglucosamine-6-O) Sulfotransferase 2 (CHST2). , 2014, , , 997-1004.		0
86	Contribution of Sulfated Glycosaminoglycans to the Pathology of Amyloidosis. <i>Trends in Glycoscience and Glycotechnology</i> , 2021, 33, E141-E145.	0.1	0
87	Contribution of Sulfated Glycosaminoglycans to the Pathology of Amyloidosis. <i>Trends in Glycoscience and Glycotechnology</i> , 2021, 33, J141-J145.	0.1	0