

Osami Habuchi

List of Publications by Year in descending order

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53
papers

2,682
citations

186265

28
h-index

223800

46
g-index

54
all docs

54
docs citations

54
times ranked

1680
citing authors

#	ARTICLE	IF	CITATIONS
1	The Occurrence of Three Isoforms of Heparan Sulfate 6-O-Sulfotransferase Having Different Specificities for Hexuronic Acid Adjacent to the Targeted N-Sulfoglucosamine. <i>Journal of Biological Chemistry</i> , 2000, 275, 2859-2868.	3.4	212
2	Sulfation pattern in glycosaminoglycan: Does it have a code?. <i>Glycoconjugate Journal</i> , 2004, 21, 47-52.	2.7	194
3	Molecular Cloning and Characterization of an N-Acetylglucosamine-6-O-sulfotransferase. <i>Journal of Biological Chemistry</i> , 1998, 273, 22577-22583.	3.4	152
4	Diversity and functions of glycosaminoglycan sulfotransferases. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2000, 1474, 115-127.	2.4	151
5	Molecular Cloning and Characterization of Human Keratan Sulfate Gal-6-Sulfotransferase. <i>Journal of Biological Chemistry</i> , 1997, 272, 32321-32328.	3.4	138
6	A sulfated carbohydrate epitope inhibits axon regeneration after injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4768-4773.	7.1	136
7	Molecular Cloning and Expression of Chick Chondrocyte Chondroitin 6-Sulfotransferase. <i>Journal of Biological Chemistry</i> , 1995, 270, 18575-18580.	3.4	125
8	Molecular Cloning and Expression of Chinese Hamster Ovary Cell Heparan-sulfate 2-Sulfotransferase. <i>Journal of Biological Chemistry</i> , 1997, 272, 13980-13985.	3.4	122
9	Human N-Acetylgalactosamine 4-Sulfate 6-O-Sulfotransferase cDNA Is Related to Human B Cell Recombination Activating Gene-associated Gene. <i>Journal of Biological Chemistry</i> , 2001, 276, 43894-43900.	3.4	100
10	Molecular Cloning and Expression of Chondroitin 4-Sulfotransferase. <i>Journal of Biological Chemistry</i> , 2000, 275, 8975-8981.	3.4	99
11	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
12	Purification and Characterization of Heparan Sulfate 6-Sulfotransferase from the Culture Medium of Chinese Hamster Ovary Cells. <i>Journal of Biological Chemistry</i> , 1995, 270, 4172-4179.	3.4	82
13	Biosynthesis of heparan sulphate with diverse structures and functions: two alternatively spliced forms of human heparan sulphate 6-O-sulphotransferase-2 having different expression patterns and properties. <i>Biochemical Journal</i> , 2003, 371, 131-142.	3.7	80
14	Glycosaminoglycan structures required for strong binding to midkine, a heparin-binding growth factor. <i>Glycobiology</i> , 2003, 13, 35-42.	2.5	76
15	Purification and Characterization of Heparan Sulfate 2-Sulfotransferase from Cultured Chinese Hamster Ovary Cells. <i>Journal of Biological Chemistry</i> , 1996, 271, 7645-7653.	3.4	71
16	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
17	Sulfated Glycosaminoglycans Control the Extracellular Trafficking and the Activity of the Metalloprotease Inhibitor TIMP-3. <i>Chemistry and Biology</i> , 2014, 21, 1300-1309.	6.0	64
18	Enzymatic sulfation of galactose residue of keratan sulfate by chondroitin 6-sulfotransferase. <i>Glycobiology</i> , 1996, 6, 51-57.	2.5	51

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19	Sulfation of sialyl lactosamine oligosaccharides by chondroitin 6-sulfotransferase. <i>Glycobiology</i> , 1997, 7, 405-412.	2.5	51
20	Purification and Characterization of Chondroitin 4-Sulfotransferase from the Culture Medium of a Rat Chondrosarcoma Cell Line. <i>Journal of Biological Chemistry</i> , 1999, 274, 2456-2463.	3.4	49
21	Purification and Characterization of N-Acetylgalactosamine 4-Sulfate 6-O-Sulfotransferase from the Squid Cartilage. <i>Journal of Biological Chemistry</i> , 2000, 275, 34728-34736.	3.4	47
22	A Unique Nonreducing Terminal Modification of Chondroitin Sulfate by N-Acetylgalactosamine 4-Sulfate 6-O-Sulfotransferase. <i>Journal of Biological Chemistry</i> , 2003, 278, 38443-38452.	3.4	47
23	Biosynthesis of the Acetylgalactosamine 4,6-Disulfate Unit of Squid Chondroitin Sulfate by Transsulfation from 3 α -Phosphoadenosine 5 α -Phosphosulfate. <i>Journal of Biological Chemistry</i> , 1971, 246, 7357-7365.	3.4	38
24	Enzymatic synthesis of chondroitin sulfate E by N-acetylgalactosamine 4-sulfate 6-O-sulfotransferase purified from squid cartilage. <i>Analytical Biochemistry</i> , 2002, 310, 129-136.	2.4	37
25	Stimulation of glycosaminoglycan sulfotransferase from chick embryo cartilage by basic proteins and polyamines. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1980, 616, 208-217.	2.6	36
26	Mice Deficient in N-Acetylgalactosamine 4-Sulfate 6-O-Sulfotransferase Are Unable to Synthesize Chondroitin/Dermatan Sulfate containing N-Acetylgalactosamine 4,6-Bissulfate Residues and Exhibit Decreased Protease Activity in Bone Marrow-derived Mast Cells. <i>Journal of Biological Chemistry</i> , 2010, 285, 20793-20805.	3.4	36
27	Molecular Cloning and Characterization of GalNAc 4-Sulfotransferase Expressed in Human Pituitary Gland. <i>Journal of Biological Chemistry</i> , 2000, 275, 40605-40613.	3.4	33
28	Recognition of Sulfation Pattern of Chondroitin Sulfate by Uronosyl 2-O-Sulfotransferase. <i>Journal of Biological Chemistry</i> , 2005, 280, 39115-39123.	3.4	32
29	Chondroitin sulfate-E mediates estrogen-induced osteoanabolism. <i>Scientific Reports</i> , 2015, 5, 8994.	3.3	29
30	Reconsideration of the Semaphorin-3A Binding Motif Found in Chondroitin Sulfate Using Galnac4s-6st-Knockout Mice. <i>Biomolecules</i> , 2020, 10, 1499.	4.0	25
31	N-Linked Oligosaccharides on Chondroitin 6-Sulfotransferase-1 Are Required for Production of the Active Enzyme, Golgi Localization, and Sulfotransferase Activity toward Keratan Sulfate. <i>Journal of Biological Chemistry</i> , 2006, 281, 20393-20403.	3.4	24
32	N-linked oligosaccharides are required to produce and stabilize the active form of chondroitin 4-sulphotransferase-1. <i>Biochemical Journal</i> , 2005, 388, 115-121.	3.7	20
33	Heparan Sulfate 6-O-Sulfotransferase Isoform-dependent Regulatory Effects of Heparin on the Activities of Various Proteases in Mast Cells and the Biosynthesis of 6-O-Sulfated Heparin. <i>Journal of Biological Chemistry</i> , 2013, 288, 3705-3717.	3.4	20
34	Chondroitin 4-sulphotransferase-1 and chondroitin 6-sulphotransferase-1 are affected differently by uronic acid residues neighbouring the acceptor GalNAc residues. <i>Biochemical Journal</i> , 2004, 384, 567-575.	3.7	19
35	The Utility of Formalin-fixed and Paraffin-embedded Tissue Blocks for Quantitative Analysis of N-acetylgalactosamine 4-sulfate 6-O-sulfotransferase mRNA Expressed by Colorectal Cancer Cells. <i>Acta Histochemica Et Cytochemica</i> , 2007, 40, 53-59.	1.6	19
36	Expression of sulfotransferases involved in the biosynthesis of chondroitin sulfate E in the bone marrow derived mast cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 687-695.	2.4	19

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37	Biosynthesis of Heparan Sulfate and Heparin. How Are the Multifunctional Glycosaminoglycans Built up?. Trends in Glycoscience and Glycotechnology, 1998, 10, 65-80.	0.1	19
38	Synthesis of sulfated phenyl 2-acetamido-2-deoxy-D-galactopyranosides. 4-O-Sulfated phenyl 2-acetamido-2-deoxy- β -D-galactopyranoside is a competitive acceptor that decreases sulfation of chondroitin sulfate by N-acetylgalactosamine 4-sulfate 6-O-sulfotransferase. Carbohydrate Research, 2005, 340, 1983-1996.	2.3	14
39	17- β -Estradiol Affects Brain Protein Synthesis Rate in Ovariectomized Female Rats. Journal of Nutrition, 2001, 131, 123-126.	2.9	12
40	Molecular Cloning of Squid N-Acetylgalactosamine 4-Sulfate 6-O-Sulfotransferase and Synthesis of a Unique Chondroitin Sulfate Containing E D Hybrid Tetrasaccharide Structure by the Recombinant Enzyme. Glycobiology, 2007, 17, 1365-1376.	2.5	11
41	Preparation of chondroitin sulfate libraries containing disulfated disaccharide units and inhibition of thrombin by these chondroitin sulfates. Glycoconjugate Journal, 2010, 27, 479-489.	2.7	9
42	Mice deficient in N-acetylgalactosamine 4-sulfate 6-O-sulfotransferase exhibit enhanced liver fibrosis and delayed recovery from fibrosis in carbon tetrachloride-treated mice. Heliyon, 2016, 2, e00138.	3.2	7
43	Inhibition of N-acetylgalactosamine 4-sulfate 6-O-sulfotransferase by β -D-4-O-sulfo-N-acetylgalactosaminides bearing various hydrophobic aglycons. Glycoconjugate Journal, 2010, 27, 237-248.	2.7	5
44	A novel mice model of acute flares in osteoarthritis elicited by intra-articular injection of cultured mast cells. Journal of Experimental Orthopaedics, 2021, 8, 75.	1.8	5
45	Chemical synthesis of 4-azido- β -galactosamine derivatives for inhibitors of N-acetylgalactosamine 4-sulfate 6-O-sulfotransferase. Glycoconjugate Journal, 2018, 35, 477-491.	2.7	3
46	Functions of chondroitin/dermatan sulfate containing GalNAc4,6-disulfate. Glycobiology, 2022, , .	2.5	3
47	Carbohydrate (Chondroitin 6) Sulfotransferase 3; Carbohydrate (N-Acetylglucosamine 6-O) Sulfotransferase 7 (CHST3,7). , 2014, , 979-987.		2
48	Bone marrow derived mast cells injected into the osteoarthritic knee joints of mice induced by sodium monoiodoacetate enhanced spontaneous pain through activation of PAR2 and action of extracellular ATP. PLoS ONE, 2021, 16, e0252590.	2.5	1
49	Sulfotransferases Involved in Sulfation of Glycosaminoglycans. , 2008, , 87-93.		1
50	Chondroitin 4-Sulfotransferase. , 2002, , 445-450.		0
51	Chondroitin 6-Sulfotransferase. , 2002, , 413-417.		0
52	Keratan Sulfate Gal-6-Sulfotransferase. , 2002, , 418-422.		0
53	Carbohydrate (N-Acetylgalactosamine 4-Sulfate 6-O) Sulfotransferase 15 (CHST15). , 2014, , 1157-1163.		0