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List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

3,265
citations

159585

30
h-index

161849

54
g-index

98
all docs

98
docs citations

98
times ranked

3682
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular interactions between chondroitinâ€“dermatan sulfate and growth factors/receptors/matrix proteins. <i>Current Opinion in Structural Biology</i> , 2015, 34, 35-42.	5.7	179
2	Proteoglycans and Glycosaminoglycans Improve Toughness of Biocompatible Double Network Hydrogels. <i>Advanced Materials</i> , 2014, 26, 436-442.	21.0	155
3	Recent Advances in the Structural Study of Functional Chondroitin Sulfate and Dermatan Sulfate in Health and Disease. <i>Connective Tissue Research</i> , 2008, 49, 133-139.	2.3	146
4	Loss-of-function mutations of CHST14 in a new type of Ehlers-Danlos syndrome. <i>Human Mutation</i> , 2010, 31, 966-974.	2.5	137
5	Specificities of Three Distinct Human Chondroitin/Dermatan N-Acetylgalactosamine 4-O-Sulfotransferases Demonstrated Using Partially Desulfated Dermatan Sulfate as an Acceptor. <i>Journal of Biological Chemistry</i> , 2003, 278, 36115-36127.	3.4	114
6	Mutations in B3GALT6, which Encodes a Glycosaminoglycan Linker Region Enzyme, Cause a Spectrum of Skeletal and Connective Tissue Disorders. <i>American Journal of Human Genetics</i> , 2013, 92, 927-934.	6.2	112
7	Faulty Initiation of Proteoglycan Synthesis Causes Cardiac and Joint Defects. <i>American Journal of Human Genetics</i> , 2011, 89, 15-27.	6.2	108
8	Heparanase-mediated Loss of Nuclear Syndecan-1 Enhances Histone Acetyltransferase (HAT) Activity to Promote Expression of Genes That Drive an Aggressive Tumor Phenotype. <i>Journal of Biological Chemistry</i> , 2011, 286, 30377-30383.	3.4	98
9	Involvement of Highly Sulfated Chondroitin Sulfate in the Metastasis of the Lewis Lung Carcinoma Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 34294-34304.	3.4	93
10	Receptor for Advanced Glycation End Products (RAGE) Functions as Receptor for Specific Sulfated Glycosaminoglycans, and Anti-RAGE Antibody or Sulfated Glycosaminoglycans Delivered in Vivo Inhibit Pulmonary Metastasis of Tumor Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 18985-18994.	3.4	93
11	Human Genetic Disorders Caused by Mutations in Genes Encoding Biosynthetic Enzymes for Sulfated Glycosaminoglycans*. <i>Journal of Biological Chemistry</i> , 2013, 288, 10953-10961.	3.4	93
12	Identification of human hyaluronidase-4 as a novel chondroitin sulfate hydrolase that preferentially cleaves the galactosaminidic linkage in the trisulfated tetrasaccharide sequence. <i>Glycobiology</i> , 2010, 20, 300-309.	2.5	91
13	De Novo Mutations in <i>SLC35A2</i> Encoding a UDP-Galactose Transporter Cause Early-Onset Epileptic Encephalopathy. <i>Human Mutation</i> , 2013, 34, 1708-1714.	2.5	85
14	Loss of dermatan sulfate epimerase (DSE) function results in musculocontractural Ehlersâ€“Danlos syndrome. <i>Human Molecular Genetics</i> , 2013, 22, 3761-3772.	2.9	78
15	Important role of heparan sulfate in postnatal islet growth and insulin secretion. <i>Biochemical and Biophysical Research Communications</i> , 2009, 383, 113-118.	2.1	77
16	Functions of Chondroitin Sulfate/Dermatan Sulfate Chains in Brain Development. <i>Journal of Biological Chemistry</i> , 2007, 282, 19442-19452.	3.4	75
17	Interaction of chondroitin sulfate and dermatan sulfate from various biological sources with heparin-binding growth factors and cytokines. <i>Glycoconjugate Journal</i> , 2013, 30, 619-632.	2.7	74
18	Glycosaminoglycans are functional ligands for receptor for advanced glycation endâ€“products in tumors. <i>FEBS Journal</i> , 2013, 280, 2462-2470.	4.7	57

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19	Hyaluronidases Have Strong Hydrolytic Activity toward Chondroitin 4-Sulfate Comparable to that for Hyaluronan. <i>Biomolecules</i> , 2012, 2, 549-563.	4.0	56
20	Omani-type spondyloepiphyseal dysplasia with cardiac involvement caused by a missense mutation in <i>CHST3</i> . <i>Clinical Genetics</i> , 2009, 75, 375-383.	2.0	54
21	Chondroitin Sulfate/Dermatan Sulfate Hybrid Chains in the Development of Cerebellum. <i>Journal of Biological Chemistry</i> , 2006, 281, 18942-18952.	3.4	53
22	Spondyloepiphyseal dysplasia, Omani type: Further definition of the phenotype. <i>American Journal of Medical Genetics, Part A</i> , 2008, 146A, 2376-2384.	1.2	48
23	Global mapping of glycosylation pathways in human-derived cells. <i>Developmental Cell</i> , 2021, 56, 1195-1209.e7.	7.0	46
24	Human Genetic Disorders and Knockout Mice Deficient in Glycosaminoglycan. <i>BioMed Research International</i> , 2014, 2014, 1-24.	1.9	45
25	Pivotal Role of Carbohydrate Sulfotransferase 15 in Fibrosis and Mucosal Healing in Mouse Colitis. <i>PLoS ONE</i> , 2016, 11, e0158967.	2.5	45
26	Roles of two types of heparan sulfate clusters in Wnt distribution and signaling in <i>Xenopus</i> . <i>Nature Communications</i> , 2017, 8, 1973.	12.8	38
27	Impaired proteoglycan glycosylation, elevated TGF- β 2 signaling, and abnormal osteoblast differentiation as the basis for bone fragility in a mouse model for gerodermia osteodysplastica. <i>PLoS Genetics</i> , 2018, 14, e1007242.	3.5	36
28	Dermatan sulfate epimerase 2 is the predominant isozyme in the formation of the chondroitin sulfate/dermatan sulfate hybrid structure in postnatal developing mouse brain. <i>Glycobiology</i> , 2011, 21, 565-574.	2.5	35
29	Identification of biallelic <i>EXTL3</i> mutations in a novel type of spondylo-epi-metaphyseal dysplasia. <i>Journal of Human Genetics</i> , 2017, 62, 797-801.	2.3	35
30	Occurrence of a nonsulfated chondroitin proteoglycan in the dried saliva of <i>Collocalia swiftlets</i> (edible bird's-nest). <i>Glycobiology</i> , 2007, 17, 157-164.	2.5	31
31	Glycosaminoglycan Chain Analysis and Characterization (Glycosylation/Epimerization). <i>Methods in Molecular Biology</i> , 2012, 836, 99-115.	0.9	30
32	Identification of a Novel Chondroitin Hydrolase in <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 14971-14979.	3.4	29
33	Identification of Amino Acid Residues Required for the Substrate Specificity of Human and Mouse Chondroitin Sulfate Hydrolase (Conventional Hyaluronidase-4)*. <i>Journal of Biological Chemistry</i> , 2012, 287, 42119-42128.	3.4	29
34	Clinical and Radiographic Features of the Autosomal Recessive form of Brachyolmia Caused by <i>PAPSS2</i> Mutations. <i>Human Mutation</i> , 2013, 34, 1381-1386.	2.5	29
35	Involvement of Human Natural Killer-1 (HNK-1) Sulfotransferase in the Biosynthesis of the GlcUA(3-O-sulfate)-Gal-Gal-Xyl Tetrasaccharide Found in α -Thrombomodulin from Human Urine. <i>Journal of Biological Chemistry</i> , 2011, 286, 33003-33011.	3.4	27
36	Expression of <i>N</i> -Acetylgalactosamine 4-Sulfate 6-O-Sulfotransferase Involved in Chondroitin Sulfate Synthesis Is Responsible for Pulmonary Metastasis. <i>BioMed Research International</i> , 2013, 2013, 1-9.	1.9	27

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37	Skeletal dysplasia in a consanguineous clan from the island of Nias/Indonesia is caused by a novel mutation in B3GAT3. <i>Human Genetics</i> , 2015, 134, 691-704.	3.8	27
38	Structural alteration of glycosaminoglycan side chains and spatial disorganization of collagen networks in the skin of patients with mcEDS-CHST14. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 623-631.	2.4	26
39	Chondroitin 4-O-sulfotransferase-1 is required for somitic muscle development and motor axon guidance in zebrafish. <i>Biochemical Journal</i> , 2009, 419, 387-399.	3.7	25
40	Mutations in Biosynthetic Enzymes for the Protein Linker Region of Chondroitin/Dermatan/Heparan Sulfate Cause Skeletal and Skin Dysplasias. <i>BioMed Research International</i> , 2015, 2015, 1-7.	1.9	25
41	Defect in dermatan sulfate in urine of patients with Ehlers-Danlos syndrome caused by a CHST14/D4ST1 deficiency. <i>Clinical Biochemistry</i> , 2017, 50, 670-677.	1.9	25
42	Pathophysiological Significance of Dermatan Sulfate Proteoglycans Revealed by Human Genetic Disorders. <i>Pharmaceuticals</i> , 2017, 10, 34.	3.8	25
43	Recent Advances in the Pathophysiology of Musculocontractural Ehlers-Danlos Syndrome. <i>Genes</i> , 2020, 11, 43.	2.4	24
44	Isolation and characterization of a novel chondroitin sulfate from squid liver integument rich in N-acetylgalactosamine(4,6-disulfate) and glucuronate(3-sulfate) residues. <i>Carbohydrate Research</i> , 2009, 344, 1526-1532.	2.3	23
45	Synthesis of the glycosaminoglycan-protein linkage tetraosyl peptide moieties of betaglycan, which serve as a hexosamine acceptor for enzymatic glycosyl transfer. <i>Carbohydrate Research</i> , 2010, 345, 2115-2123.	2.3	22
46	Demonstration of the hepatocyte growth factor signaling pathway in the in vitro neuritogenic activity of chondroitin sulfate from ray fish cartilage. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2011, 1810, 406-413.	2.4	22
47	Functional validation of novel compound heterozygous variants in B3GAT3 resulting in severe osteopenia and fractures: expanding the disease phenotype. <i>BMC Medical Genetics</i> , 2016, 17, 86.	2.1	22
48	Chondroitin Sulfate N-acetylgalactosaminyltransferase-1 (CSGalNAcT-1) Deficiency Results in a Mild Skeletal Dysplasia and Joint Laxity. <i>Human Mutation</i> , 2017, 38, 34-38.	2.5	22
49	A response to: Loss of dermatan-4-sulfotransferase 1 (D4ST1/CHST14) function represents the first dermatan sulfate biosynthesis defect, -dermatan sulfate-deficient Adducted Thumb-Clubfoot Syndrome- Which name is appropriate, -Adducted Thumb-Clubfoot Synd. <i>Human Mutation</i> , 2011, 32, 1507-1509.	2.5	21
50	Sulfation patterns of exogenous chondroitin sulfate affect chondrogenic differentiation of ATDC5 cells. <i>Journal of Orthopaedic Science</i> , 2014, 19, 1028-1035.	1.1	21
51	Highly sulfated hexasaccharide sequences isolated from chondroitin sulfate of shark fin cartilage: Insights into the sugar sequences with bioactivities. <i>Glycobiology</i> , 2013, 23, 155-168.	2.5	20
52	Receptor protein tyrosine phosphatase beta/zeta is a functional binding partner for vascular endothelial growth factor. <i>Molecular Cancer</i> , 2015, 14, 19.	19.2	20
53	Vascular abnormalities in the placenta of Chst14 ^{-/-} fetuses: implications in the pathophysiology of perinatal lethality of the murine model and vascular lesions in human CHST14/D4ST1 deficiency. <i>Glycobiology</i> , 2018, 28, 80-89.	2.5	20
54	Screening of known disease genes in congenital scoliosis. <i>Molecular Genetics & Genomic Medicine</i> , 2018, 6, 966-974.	1.2	20

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55	Chondroitin sulfate protects vascular endothelial cells from toxicities of extracellular histones. <i>European Journal of Pharmacology</i> , 2018, 826, 48-55.	3.5	19
56	Congenital Disorders of Deficiency in Glycosaminoglycan Biosynthesis. <i>Frontiers in Genetics</i> , 2021, 12, 717535.	2.3	19
57	Delineation of musculocontractural Ehlers-Danlos Syndrome caused by dermatan sulfate epimerase deficiency. <i>Molecular Genetics & Genomic Medicine</i> , 2020, 8, e1197.	1.2	18
58	Identification of novel LFNG mutations in spondylocostal dysostosis. <i>Journal of Human Genetics</i> , 2019, 64, 261-264.	2.3	17
59	An Overview of in vivo Functions of Chondroitin Sulfate and Dermatan Sulfate Revealed by Their Deficient Mice. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 764781.	3.7	17
60	Analysis of the structure and neuritogenic activity of chondroitin sulfate/dermatan sulfate hybrid chains from porcine fetal membranes. <i>Glycoconjugate Journal</i> , 2010, 27, 49-60.	2.7	15
61	Effects of sesamin on the biosynthesis of chondroitin sulfate proteoglycans in human articular chondrocytes in primary culture. <i>Glycoconjugate Journal</i> , 2014, 31, 221-230.	2.7	15
62	CSGALNACT1 congenital disorder of glycosylation: A mild skeletal dysplasia with advanced bone age. <i>Human Mutation</i> , 2020, 41, 655-667.	2.5	15
63	Systematic investigation of the skin in <i>Chst14</i> mice: A model for skin fragility in musculocontractural Ehlers-Danlos syndrome caused by <i>CHST14</i> variants (mcEDS- <i>CHST14</i>). <i>Glycobiology</i> , 2021, 31, 137-150.	2.5	15
64	Hyaluronan degradation and release of a hyaluronan-aggrecan complex from perineuronal nets in the aged mouse brain. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129804.	2.4	15
65	Novel Insight Into Glycosaminoglycan Biosynthesis Based on Gene Expression Profiles. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 709018.	3.7	15
66	Hyaluronidase-4 is produced by mast cells and can cleave serglycin chondroitin sulfate chains into lower molecular weight forms. <i>Journal of Biological Chemistry</i> , 2019, 294, 11458-11472.	3.4	14
67	The Specific Role of Dermatan Sulfate as an Instructive Glycosaminoglycan in Tissue Development. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7485.	4.1	13
68	The reduction of heparan sulphate in the glomerular basement membrane does not augment urinary albumin excretion. <i>Nephrology Dialysis Transplantation</i> , 2018, 33, 26-33.	0.7	11
69	<i>b3gal6</i> Knock-Out Zebrafish Recapitulate ³ GalT6-Deficiency Disorders in Human and Reveal a Trisaccharide Proteoglycan Linkage Region. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 597857.	3.7	11
70	Dermatan sulphate promotes neuronal differentiation in mouse and human stem cells. <i>Journal of Biochemistry</i> , 2021, 169, 55-64.	1.7	11
71	Muscle pathophysiology in mouse models of musculocontractural Ehlers-Danlos syndrome due to <i>CHST14</i> mutations (mcEDS- <i>CHST14</i>), generated through CRISPR/Cas9-mediated genomic editing. <i>DMM Disease Models and Mechanisms</i> , 2021, , .	2.4	11
72	Pseudodiastrophic dysplasia expands the known phenotypic spectrum of defects in proteoglycan biosynthesis. <i>Journal of Medical Genetics</i> , 2020, 57, 454-460.	3.2	8

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91	Functional Analysis of Dermatan Sulfate and Chondroitin Sulfate. Trends in Glycoscience and Glycotechnology, 2019, 31, SE98-SE99.	0.1	0
92	Functional Analysis of Dermatan Sulfate and Chondroitin Sulfate. Trends in Glycoscience and Glycotechnology, 2019, 31, SJ98-SJ99.	0.1	0
93	Congenital Disorders Caused by Defects in Anabolism of Glycosaminoglycans. Trends in Glycoscience and Glycotechnology, 2020, 32, J43-J49.	0.1	0
94	Congenital Disorders Caused by Defects in Catabolism of Glycosaminoglycans. Trends in Glycoscience and Glycotechnology, 2020, 32, E127-E133.	0.1	0
95	Congenital Disorders Caused by Defects in Catabolism of Glycosaminoglycans. Trends in Glycoscience and Glycotechnology, 2020, 32, J105-J110.	0.1	0