

Jeffrey D Esko

List of Publications by Year in descending order

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189
papers

23,818
citations

13827

67
h-index

7718

150
g-index

201
all docs

201
docs citations

201
times ranked

21988
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell surface, heparin-like molecules are required for binding of basic fibroblast growth factor to its high affinity receptor. <i>Cell</i> , 1991, 64, 841-848.	13.5	2,430
2	Heparan sulphate proteoglycans fine-tune mammalian physiology. <i>Nature</i> , 2007, 446, 1030-1037.	13.7	1,413
3	Order Out of Chaos: Assembly of Ligand Binding Sites in Heparan Sulfate. <i>Annual Review of Biochemistry</i> , 2002, 71, 435-471.	5.0	1,367
4	The sweet and sour of cancer: glycans as novel therapeutic targets. <i>Nature Reviews Cancer</i> , 2005, 5, 526-542.	12.8	1,225
5	Heparan Sulfate Proteoglycans. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011, 3, a004952-a004952.	2.3	1,147
6	A Novel Role for 3-O-Sulfated Heparan Sulfate in Herpes Simplex Virus 1 Entry. <i>Cell</i> , 1999, 99, 13-22.	13.5	948
7	Dengue virus infectivity depends on envelope protein binding to target cell heparan sulfate. <i>Nature Medicine</i> , 1997, 3, 866-871.	15.2	914
8	SARS-CoV-2 Infection Depends on Cellular Heparan Sulfate and ACE2. <i>Cell</i> , 2020, 183, 1043-1057.e15.	13.5	860
9	Symbol Nomenclature for Graphical Representations of Glycans. <i>Glycobiology</i> , 2015, 25, 1323-1324.	1.3	818
10	Molecular diversity of heparan sulfate. <i>Journal of Clinical Investigation</i> , 2001, 108, 169-173.	3.9	767
11	Demystifying Heparan Sulfate-Protein Interactions. <i>Annual Review of Biochemistry</i> , 2014, 83, 129-157.	5.0	610
12	Endothelial heparan sulfate deficiency impairs L-selectin- and chemokine-mediated neutrophil trafficking during inflammatory responses. <i>Nature Immunology</i> , 2005, 6, 902-910.	7.0	424
13	Disruption of Gastrulation and Heparan Sulfate Biosynthesis in EXT1-Deficient Mice. <i>Developmental Biology</i> , 2000, 224, 299-311.	0.9	370
14	Brown fat activation reduces hypercholesterolaemia and protects from atherosclerosis development. <i>Nature Communications</i> , 2015, 6, 6356.	5.8	360
15	Heparin's anti-inflammatory effects require glucosamine 6-O-sulfation and are mediated by blockade of L- and P-selectins. <i>Journal of Clinical Investigation</i> , 2002, 110, 127-136.	3.9	258
16	Mice deficient in Ext2 lack heparan sulfate and develop exostoses. <i>Development (Cambridge)</i> , 2005, 132, 5055-5068.	1.2	221
17	<i>Caenorhabditis elegans</i> early embryogenesis and vulval morphogenesis require chondroitin biosynthesis. <i>Nature</i> , 2003, 423, 439-443.	13.7	205
18	Multiple Isozymes of Heparan Sulfate/Heparin GlcNAcN-Deacetylase/GlcN N-Sulfotransferase. <i>Journal of Biological Chemistry</i> , 2001, 276, 5876-5882.	1.6	203

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19	ApoC-III inhibits clearance of triglyceride-rich lipoproteins through LDL family receptors. <i>Journal of Clinical Investigation</i> , 2016, 126, 2855-2866.	3.9	186
20	Heparan sulfate 3-O-sulfation: A rare modification in search of a function. <i>Matrix Biology</i> , 2014, 35, 60-72.	1.5	182
21	Influence of core protein sequence on glycosaminoglycan assembly. <i>Current Opinion in Structural Biology</i> , 1996, 6, 663-670.	2.6	179
22	Liver heparan sulfate proteoglycans mediate clearance of triglyceride-rich lipoproteins independently of LDL receptor family members. <i>Journal of Clinical Investigation</i> , 2007, 117, 153-164.	3.9	177
23	Cerebral hypoplasia and craniofacial defects in mice lacking heparan sulfate Ndst1 gene function. <i>Development (Cambridge)</i> , 2005, 132, 3777-3786.	1.2	176
24	Syndecan-1 is the primary heparan sulfate proteoglycan mediating hepatic clearance of triglyceride-rich lipoproteins in mice. <i>Journal of Clinical Investigation</i> , 2009, 119, 3236-45.	3.9	176
25	Evolutionary Differences in Glycosaminoglycan Fine Structure Detected by Quantitative Glycan Reductive Isotope Labeling. <i>Journal of Biological Chemistry</i> , 2008, 283, 33674-33684.	1.6	170
26	Heparin's anti-inflammatory effects require glucosamine 6-O-sulfation and are mediated by blockade of L- and P-selectins. <i>Journal of Clinical Investigation</i> , 2002, 110, 127-136.	3.9	163
27	Symbol nomenclature for glycan representation. <i>Proteomics</i> , 2009, 9, 5398-5399.	1.3	162
28	A focused microarray approach to functional glycomics: transcriptional regulation of the glycome. <i>Glycobiology</i> , 2006, 16, 117-131.	1.3	161
29	Biosynthesis of the Linkage Region of Glycosaminoglycans. <i>Journal of Biological Chemistry</i> , 2001, 276, 48189-48195.	1.6	158
30	Hereditary multiple exostoses and heparan sulfate polymerization. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2002, 1573, 346-355.	1.1	157
31	Surfen, a small molecule antagonist of heparan sulfate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 13075-13080.	3.3	152
32	Clofazimine broadly inhibits coronaviruses including SARS-CoV-2. <i>Nature</i> , 2021, 593, 418-423.	13.7	151
33	Heparan sulfate and development: differential roles of the N-acetylglucosamine N-deacetylase/N-sulfotransferase isozymes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2002, 1573, 209-215.	1.1	143
34	Molecular Cloning and Expression of a Third Member of the Heparan Sulfate/Heparin GlcNAcN-Deacetylase/N-Sulfotransferase Family. <i>Journal of Biological Chemistry</i> , 1999, 274, 2690-2695.	1.6	140
35	Heparan sulfate and syndecan-1 are essential in maintaining murine and human intestinal epithelial barrier function. <i>Journal of Clinical Investigation</i> , 2008, 118, 229-238.	3.9	131
36	Disaccharide structure code for the easy representation of constituent oligosaccharides from glycosaminoglycans. <i>Nature Methods</i> , 2008, 5, 291-292.	9.0	130

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37	An Animal Cell Mutant Defective in Heparan Sulfate Hexuronic Acid 2- -Sulfation. <i>Journal of Biological Chemistry</i> , 1996, 271, 17711-17717.	1.6	129
38	Targeting heparin and heparan sulfate protein interactions. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 5656-5668.	1.5	128
39	Repetitive Ser-Gly Sequences Enhance Heparan Sulfate Assembly in Proteoglycans. <i>Journal of Biological Chemistry</i> , 1995, 270, 27127-27135.	1.6	127
40	Essential Alterations of Heparan Sulfate During the Differentiation of Embryonic Stem Cells to Sox1-Enhanced Green Fluorescent Protein-Expressing Neural Progenitor Cells. <i>Stem Cells</i> , 2007, 25, 1913-1923.	1.4	126
41	Disease-specific non-“reducing end carbohydrate biomarkers for mucopolysaccharidoses. <i>Nature Chemical Biology</i> , 2012, 8, 197-204.	3.9	124
42	The GPIHBP1-“LPL Complex Is Responsible for the Margination of Triglyceride-Rich Lipoproteins in Capillaries. <i>Cell Metabolism</i> , 2014, 19, 849-860.	7.2	124
43	Tumor attenuation by combined heparan sulfate and polyamine depletion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 371-376.	3.3	114
44	Biallelic mutations in SNX14 cause a syndromic form of cerebellar atrophy and lysosome-autophagosome dysfunction. <i>Nature Genetics</i> , 2015, 47, 528-534.	9.4	111
45	Identification of novel chondroitin proteoglycans in <i>Caenorhabditis elegans</i> : embryonic cell division depends on CPG-1 and CPG-2. <i>Journal of Cell Biology</i> , 2006, 173, 985-994.	2.3	109
46	Genetic alteration of endothelial heparan sulfate selectively inhibits tumor angiogenesis. <i>Journal of Cell Biology</i> , 2007, 177, 539-549.	2.3	107
47	Role of the endothelial surface layer in neutrophil recruitment. <i>Journal of Leukocyte Biology</i> , 2015, 98, 503-515.	1.5	104
48	Chinese Hamster Ovary Cell Mutants Defective in Glycosaminoglycan Assembly and Glucuronosyltransferase I. <i>Journal of Biological Chemistry</i> , 1999, 274, 13017-13024.	1.6	101
49	Cellular internalization of alpha-synuclein aggregates by cell surface heparan sulfate depends on aggregate conformation and cell type. <i>Scientific Reports</i> , 2017, 7, 9008.	1.6	101
50	Heparan sulfate biosynthetic gene <i>Ndst1</i> is required for FGF signaling in early lens development. <i>Development (Cambridge)</i> , 2006, 133, 4933-4944.	1.2	96
51	Xylose phosphorylation functions as a molecular switch to regulate proteoglycan biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15723-15728.	3.3	94
52	Fucosylation of Disaccharide Precursors of Sialyl LewisX Inhibit Selectin-mediated Cell Adhesion. <i>Journal of Biological Chemistry</i> , 1997, 272, 25608-25616.	1.6	92
53	Human Xylosyltransferase II Is Involved in the Biosynthesis of the Uniform Tetrasaccharide Linkage Region in Chondroitin Sulfate and Heparan Sulfate Proteoglycans*. <i>Journal of Biological Chemistry</i> , 2007, 282, 5201-5206.	1.6	91
54	Bud specific N-sulfation of heparan sulfate regulates <i>Shp2</i> -dependent FGF signaling during lacrimal gland induction. <i>Development (Cambridge)</i> , 2008, 135, 301-310.	1.2	91

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55	Heparan Sulfate Regulates VEGF165- and VEGF121-mediated Vascular Hyperpermeability. <i>Journal of Biological Chemistry</i> , 2011, 286, 737-745.	1.6	80
56	Inactivation of heparan sulfate 2-O-sulfotransferase accentuates neutrophil infiltration during acute inflammation in mice. <i>Blood</i> , 2012, 120, 1742-1751.	0.6	80
57	Heparan 2-O-sulfotransferase, hst-2, is essential for normal cell migration in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 1507-1512.	3.3	78
58	Heparan Sulfate Is Essential for High Mobility Group Protein 1 (HMGB1) Signaling by the Receptor for Advanced Glycation End Products (RAGE). <i>Journal of Biological Chemistry</i> , 2011, 286, 41736-41744.	1.6	77
59	Heparan Sulfate 2-O-Sulfotransferase Is Required for Triglyceride-rich Lipoprotein Clearance*. <i>Journal of Biological Chemistry</i> , 2010, 285, 286-294.	1.6	76
60	The <i>Caenorhabditis elegans</i> Genes sqv-2 and sqv-6, Which Are Required for Vulval Morphogenesis, Encode Glycosaminoglycan Galactosyltransferase II and Xylosyltransferase. <i>Journal of Biological Chemistry</i> , 2003, 278, 11735-11738.	1.6	75
61	Glycan Antagonists and Inhibitors: A Fount for Drug Discovery. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2007, 42, 481-515.	2.3	75
62	PinAPL-Py: A comprehensive web-application for the analysis of CRISPR/Cas9 screens. <i>Scientific Reports</i> , 2017, 7, 15854.	1.6	75
63	Location of the Glucuronosyltransferase Domain in the Heparan Sulfate Copolymerase EXT1 by Analysis of Chinese Hamster Ovary Cell Mutants. <i>Journal of Biological Chemistry</i> , 2000, 275, 27733-27740.	1.6	74
64	Lacrimal Gland Development and Fgf10-Fgfr2b Signaling Are Controlled by 2-O- and 6-O-sulfated Heparan Sulfate. <i>Journal of Biological Chemistry</i> , 2011, 286, 14435-14444.	1.6	72
65	Etiological Point Mutations in the Hereditary Multiple Exostoses Gene EXT1: A Functional Analysis of Heparan Sulfate Polymerase Activity. <i>American Journal of Human Genetics</i> , 2001, 69, 55-66.	2.6	71
66	Stable RAGE-Heparan Sulfate Complexes Are Essential for Signal Transduction. <i>ACS Chemical Biology</i> , 2013, 8, 1611-1620.	1.6	71
67	On Guanidinium and Cellular Uptake. <i>Journal of Organic Chemistry</i> , 2014, 79, 6766-6774.	1.7	71
68	A mutant-cell library for systematic analysis of heparan sulfate structure–function relationships. <i>Nature Methods</i> , 2018, 15, 889-899.	9.0	71
69	Guanidinylated Neomycin Delivers Large, Bioactive Cargo into Cells through a Heparan Sulfate-dependent Pathway. <i>Journal of Biological Chemistry</i> , 2007, 282, 13585-13591.	1.6	69
70	Hepatic Remnant Lipoprotein Clearance by Heparan Sulfate Proteoglycans and Low-Density Lipoprotein Receptors Depend on Dietary Conditions in Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 2065-2074.	1.1	69
71	Turnover of Heparan Sulfate Depends on 2-O-Sulfation of Uronic Acids. <i>Journal of Biological Chemistry</i> , 1997, 272, 23172-23179.	1.6	68
72	Regulated Translation of Heparan Sulfate N-Acetylglucosamine N-Deacetylase/N-Sulfotransferase Isozymes by Structured 5' Untranslated Regions and Internal Ribosome Entry Sites. <i>Journal of Biological Chemistry</i> , 2002, 277, 30699-30706.	1.6	67

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73	Metabolic engineering of Chinese hamster ovary cells: Towards a bioengineered heparin. <i>Metabolic Engineering</i> , 2012, 14, 81-90.	3.6	67
74	Glycan-based biomarkers for mucopolysaccharidoses. <i>Molecular Genetics and Metabolism</i> , 2014, 111, 73-83.	0.5	67
75	The Effect of Precursor Structures on the Action of Glucosaminyl 3-O-Sulfotransferase-1 and the Biosynthesis of Anticoagulant Heparan Sulfate. <i>Journal of Biological Chemistry</i> , 2001, 276, 28806-28813.	1.6	65
76	Apolipoproteins E and AV mediate lipoprotein clearance by hepatic proteoglycans. <i>Journal of Clinical Investigation</i> , 2013, 123, 2742-2751.	3.9	65
77	Reducing Macrophage Proteoglycan Sulfation Increases Atherosclerosis and Obesity through Enhanced Type I Interferon Signaling. <i>Cell Metabolism</i> , 2014, 20, 813-826.	7.2	65
78	Abnormal Patterns of Lipoprotein Lipase Release into the Plasma in GPIHBP1-deficient Mice. <i>Journal of Biological Chemistry</i> , 2008, 283, 34511-34518.	1.6	64
79	Altered Heparan Sulfate Structure in Mice with Deleted NDST3 Gene Function. <i>Journal of Biological Chemistry</i> , 2008, 283, 16885-16894.	1.6	63
80	Heparan sulfate Ndst1 gene function variably regulates multiple signaling pathways during mouse development. <i>Developmental Dynamics</i> , 2007, 236, 556-563.	0.8	62
81	Functional Overlap Between Chondroitin and Heparan Sulfate Proteoglycans During VEGF-Induced Sprouting Angiogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 1255-1263.	1.1	62
82	Arylsulfatase G inactivation causes loss of heparan sulfate 3- <i>O</i> -sulfatase activity and mucopolysaccharidosis in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10310-10315.	3.3	61
83	Compound heterozygous loss of Ext1 and Ext2 is sufficient for formation of multiple exostoses in mouse ribs and long bones. <i>Bone</i> , 2011, 48, 979-987.	1.4	57
84	Expanding the 3- <i>O</i> -Sulfate Proteome—Enhanced Binding of Neuropilin-1 to 3- <i>O</i> -Sulfated Heparan Sulfate Modulates Its Activity. <i>ACS Chemical Biology</i> , 2016, 11, 971-980.	1.6	57
85	Heparan sulfate deficiency disrupts developmental angiogenesis and causes congenital diaphragmatic hernia. <i>Journal of Clinical Investigation</i> , 2014, 124, 209-221.	3.9	53
86	Formation of HNK-1 Determinants and the Glycosaminoglycan Tetrasaccharide Linkage Region by UDP-GlcUA:Galactose 1,3-Glucuronosyltransferases. <i>Journal of Biological Chemistry</i> , 1999, 274, 7857-7864.	1.6	52
87	Cloning, Golgi Localization, and Enzyme Activity of the Full-length Heparin/Heparan Sulfate-Glucuronic Acid C5-epimerase. <i>Journal of Biological Chemistry</i> , 2001, 276, 21538-21543.	1.6	50
88	Glycosaminoglycan Binding Facilitates Entry of a Bacterial Pathogen into Central Nervous Systems. <i>PLoS Pathogens</i> , 2011, 7, e1002082.	2.1	50
89	Deficiency of Endothelial Heparan Sulfates Attenuates Allergic Airway Inflammation. <i>Journal of Immunology</i> , 2009, 183, 3971-3979.	0.4	48
90	ApoC-III ASO promotes tissue LPL activity in the absence of apoE-mediated TRL clearance. <i>Journal of Lipid Research</i> , 2019, 60, 1379-1395.	2.0	48

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91	CHO Glycosylation Mutants: Proteoglycans. <i>Methods in Enzymology</i> , 2006, 416, 205-221.	0.4	47
92	Heparan sulfate proteoglycans and triglyceride-rich lipoprotein metabolism. <i>Current Opinion in Lipidology</i> , 2008, 19, 307-313.	1.2	47
93	Deletion of the Basement Membrane Heparan Sulfate Proteoglycan Type XVIII Collagen Causes Hypertriglyceridemia in Mice and Humans. <i>PLoS ONE</i> , 2010, 5, e13919.	1.1	46
94	Stage-dependent regulation of mammary ductal branching by heparan sulfate and HGF-cMet signaling. <i>Developmental Biology</i> , 2011, 355, 394-403.	0.9	46
95	Secondary Storage of Dermatan Sulfate in Sanfilippo Disease. <i>Journal of Biological Chemistry</i> , 2011, 286, 6955-6962.	1.6	46
96	Proteomic atlas of organ vasculopathies triggered by <i>Staphylococcus aureus</i> sepsis. <i>Nature Communications</i> , 2019, 10, 4656.	5.8	46
97	Targeting phosphatase-dependent proteoglycan switch for rheumatoid arthritis therapy. <i>Science Translational Medicine</i> , 2015, 7, 288ra76.	5.8	44
98	A Systems View of the Heparan Sulfate Interactome. <i>Journal of Histochemistry and Cytochemistry</i> , 2021, 69, 105-119.	1.3	44
99	Synthesis and glycan priming activity of acetylated disaccharides. <i>Carbohydrate Research</i> , 2000, 329, 287-300.	1.1	42
100	Hepatic Heparan Sulfate Proteoglycans and Endocytic Clearance of Triglyceride-Rich Lipoproteins. <i>Progress in Molecular Biology and Translational Science</i> , 2010, 93, 213-233.	0.9	42
101	Heparan Sulfate Regulates Hair Follicle and Sebaceous Gland Morphogenesis and Homeostasis. <i>Journal of Biological Chemistry</i> , 2014, 289, 25211-25226.	1.6	42
102	Modulation of heparan sulfate in the glomerular endothelial glycocalyx decreases leukocyte influx during experimental glomerulonephritis. <i>Kidney International</i> , 2014, 86, 932-942.	2.6	39
103	Loss of the Heparan Sulfate Sulfotransferase, <i>Ndst1</i> , in Mammary Epithelial Cells Selectively Blocks Lobuloalveolar Development in Mice. <i>PLoS ONE</i> , 2010, 5, e10691.	1.1	36
104	Loss of Corneal Epithelial Heparan Sulfate Leads to Corneal Degeneration and Impaired Wound Healing. , 2015, 56, 3004.		36
105	Glycan susceptibility factors in autism spectrum disorders. <i>Molecular Aspects of Medicine</i> , 2016, 51, 104-114.	2.7	36
106	Whole-Genome Sequencing of Invasion-Resistant Cells Identifies Laminin $\hat{1}\pm 2$ as a Host Factor for Bacterial Invasion. <i>MBio</i> , 2017, 8, .	1.8	36
107	The heparan sulfate proteoglycan grip on hyperlipidemia and atherosclerosis. <i>Matrix Biology</i> , 2018, 71-72, 262-282.	1.5	36
108	Shedding of syndecan-1 from human hepatocytes alters very low density lipoprotein clearance. <i>Hepatology</i> , 2012, 55, 277-286.	3.6	35

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109	Stem domains of heparan sulfate 6-O-sulfotransferase are required for Golgi localization, oligomer formation and enzyme activity. <i>Journal of Cell Science</i> , 2004, 117, 3331-3341.	1.2	34
110	Heparan sulfate primed on Î²-D-xylosides restores binding of basic fibroblast growth factor. <i>Journal of Cellular Biochemistry</i> , 1995, 57, 173-184.	1.2	33
111	Guanidinylated Neomycin Mediates Heparan Sulfateâ€‘dependent Transport of Active Enzymes to Lysosomes. <i>Molecular Therapy</i> , 2010, 18, 1268-1274.	3.7	32
112	Prion protein glycans reduce intracerebral fibril formation and spongiosis in prion disease. <i>Journal of Clinical Investigation</i> , 2020, 130, 1350-1362.	3.9	32
113	Heparan Sulfate Modulates Neutrophil and Endothelial Function in Antibacterial Innate Immunity. <i>Infection and Immunity</i> , 2015, 83, 3648-3656.	1.0	30
114	Hepatocyte Heparan Sulfate Is Required for Adeno-Associated Virus 2 but Dispensable for Adenovirus 5 Liver Transduction In Vivo. <i>Journal of Virology</i> , 2016, 90, 412-420.	1.5	30
115	ZNF263 is a transcriptional regulator of heparin and heparan sulfate biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9311-9317.	3.3	30
116	Cooperative, Heparan Sulfateâ€‘Dependent Cellular Uptake of Dimeric Guanidinoglycosides. <i>ChemBioChem</i> , 2010, 11, 2302-2310.	1.3	29
117	Neurodevelopmental Changes in Excitatory Synaptic Structure and Function in the Cerebral Cortex of Sanfilippo Syndrome IIIA Mice. <i>Scientific Reports</i> , 2017, 7, 46576.	1.6	29
118	Elongated neutrophil-derived structures are blood-borne microparticles formed by rolling neutrophils during sepsis. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	29
119	Cancer-cell-secreted miR-122 suppresses O-GlcNAcylation to promote skeletal muscle proteolysis. <i>Nature Cell Biology</i> , 2022, 24, 793-804.	4.6	29
120	Synthesis and biological evaluation of gem-diamine 1-N-iminosugars related to l-iduronic acid as inhibitors of heparan sulfate 2-O-sulfotransferase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 532-536.	1.0	27
121	Inhibitory Peptides of the Sulfotransferase Domain of the Heparan Sulfate Enzyme, N-Deacetylase-N-sulfotransferase-1. <i>Journal of Biological Chemistry</i> , 2011, 286, 5338-5346.	1.6	27
122	Surfen and oxalyl surfen decrease tau hyperphosphorylation and mitigate neuron deficits in vivo in a zebrafish model of tauopathy. <i>Translational Neurodegeneration</i> , 2018, 7, 6.	3.6	26
123	Differentiation of 3-O-sulfated heparin disaccharide isomers: Identification of structural aspects of the heparin CCL2 binding motif. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 652-657.	1.2	24
124	Cell Surface Heparan Sulfate Promotes Replication of <i>Toxoplasma gondii</i> . <i>Infection and Immunity</i> , 2005, 73, 5395-5401.	1.0	23
125	Shortening heparan sulfate chains prolongs survival and reduces parenchymal plaques in prion disease caused by mobile, ADAM10-cleaved prions. <i>Acta Neuropathologica</i> , 2020, 139, 527-546.	3.9	23
126	Dissecting structure-function of 3-O-sulfated heparin and engineered heparan sulfates. <i>Science Advances</i> , 2021, 7, eabl6026.	4.7	23

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127	Synthesis of N-Acetylglucosamine Derivatives with Variation in the Aglycon Moiety for the Study of Inhibition of Sialyl Lewis x Expression. <i>ChemBioChem</i> , 2003, 4, 835-840.	1.3	22
128	Heparan sulfate Ndst1 regulates vascular smooth muscle cell proliferation, vessel size and vascular remodeling. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 49, 287-293.	0.9	22
129	Loss of β -Catenin Induces Multifocal Periosteal Chondroma-Like Masses in Mice. <i>American Journal of Pathology</i> , 2013, 182, 917-927.	1.9	22
130	Glycoside Primers of <i>Psittacanthus cucullaris</i> . <i>Journal of Natural Products</i> , 1999, 62, 1036-1038.	1.5	21
131	A Genetic Model of Substrate Reduction Therapy for Mucopolysaccharidosis. <i>Journal of Biological Chemistry</i> , 2012, 287, 36283-36290.	1.6	21
132	Small molecule antagonists of cell-surface heparan sulfate and heparin-protein interactions. <i>Chemical Science</i> , 2015, 6, 5984-5993.	3.7	21
133	Heparan sulfate proteoglycans fine-tune macrophage inflammation via IFN- β . <i>Cytokine</i> , 2015, 72, 118-119.	1.4	21
134	Partial purification and substrate specificity of heparan sulfate β -N-acetylglucosaminyltransferase I: synthesis, NMR spectroscopic characterization and in vitro assays of two aryl tetrasaccharides. <i>Glycobiology</i> , 1997, 7, 587-595.	1.3	20
135	Aggregation-Mediated Macromolecular Uptake by a Molecular Transporter. <i>ACS Chemical Biology</i> , 2013, 8, 1383-1388.	1.6	20
136	ApoC-III Glycoforms Are Differentially Cleared by Hepatic TRL (Triglyceride-Rich Lipoprotein) Receptors. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 2145-2156.	1.1	20
137	Podocyte-specific deletion of NDST1, a key enzyme in the sulfation of heparan sulfate glycosaminoglycans, leads to abnormalities in podocyte organization in vivo. <i>Kidney International</i> , 2014, 85, 307-318.	2.6	19
138	Heparan sulfate expression in the neural crest is essential for mouse cardiogenesis. <i>Matrix Biology</i> , 2014, 35, 253-265.	1.5	19
139	Asparagine 405 of heparin lyase II prevents the cleavage of glycosidic linkages proximate to a 3-sulfoglucosamine residue. <i>FEBS Letters</i> , 2011, 585, 2461-2466.	1.3	18
140	Endothelial and leukocyte heparan sulfates regulate the development of allergen-induced airway remodeling in a mouse model. <i>Glycobiology</i> , 2014, 24, 715-727.	1.3	18
141	Proteomics-based screening of the endothelial heparan sulfate interactome reveals that C-type lectin 14a (CLEC14A) is a heparin-binding protein. <i>Journal of Biological Chemistry</i> , 2020, 295, 2804-2821.	1.6	18
142	Differential Effects of Murine and Human Factor X on Adenovirus Transduction via Cell-surface Heparan Sulfate. <i>Journal of Biological Chemistry</i> , 2011, 286, 24535-24543.	1.6	17
143	CNeosomes: Highly Lysosomotropic Nanoassemblies for Lysosomal Delivery. <i>ACS Nano</i> , 2015, 9, 3961-3968.	7.3	17
144	Plasma Proteome Signature of Sepsis: a Functionally Connected Protein Network. <i>Proteomics</i> , 2019, 19, e1800389.	1.3	17

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145	Insulin-dependent Diabetes Mellitus in Mice Does Not Alter Liver Heparan Sulfate. <i>Journal of Biological Chemistry</i> , 2010, 285, 14658-14662.	1.6	16
146	An affinity chromatography and glycoproteomics workflow to profile the chondroitin sulfate proteoglycans that interact with malarial VAR2CSA in the placenta and in cancer. <i>Glycobiology</i> , 2020, 30, 989-1002.	1.3	16
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