Marion Kusche-Gullberg

List of Publications by Year
in descending order

55 papers	4,704 citations	126907 33 h-index	168389 53 g-index
55 all docs	55 docs citations	55 times ranked	3542 citing authors

#	Article	IF	Citations
1	Regulated Diversity of Heparan Sulfate. Journal of Biological Chemistry, 1998, 273, 24979-24982.	3.4	597
2	Abnormal mast cells in mice deficient in a heparin-synthesizing enzyme. Nature, 1999, 400, 773-776.	27.8	449
3	QSulf1 remodels the 6-O sulfation states of cell surface heparan sulfate proteoglycans to promote Wnt signaling. Journal of Cell Biology, 2003, 162, 341-351.	5.2	443
4	Sulfotransferases in glycosaminoglycan biosynthesis. Current Opinion in Structural Biology, 2003, 13, 605-611.	5.7	264
5	Contribution of EXT1, EXT2, and EXTL3 to Heparan Sulfate Chain Elongation. Journal of Biological Chemistry, 2007, 282, 32802-32810.	3.4	171
6	Human tumor suppressor EXT gene family members EXTL1 and EXTL3 encode Â1,4-N-acetylglucosaminyltransferases that likely are involved in heparan sulfate/ heparin biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 7176-7181.	7.1	162
7	The EXT1/EXT2 tumor suppressors: catalytic activities and role in heparan sulfate biosynthesis. EMBO Reports, 2000, 1, 282-286.	4.5	153
8	Heparan sulfate biosynthesis enzymes EXT1 and EXT2 affect NDST1 expression and heparan sulfate sulfation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4751-4756.	7.1	151
9	SULF1 and SULF2 regulate heparan sulfate-mediated GDNF signaling for esophageal innervation. Development (Cambridge), 2007, 134, 3327-3338.	2.5	148
10	cDNA Cloning and Chromosomal Localization of Human Î±11 Integrin. Journal of Biological Chemistry, 1999, 274, 25735-25742.	3.4	144
11	Substrate Specificity and Domain Functions of Extracellular Heparan Sulfate 6-O-Endosulfatases, QSulf1 and QSulf2. Journal of Biological Chemistry, 2006, 281, 4969-4976.	3.4	136
12	Presence of N-Unsubstituted Glucosamine Units in Native Heparan Sulfate Revealed by a Monoclonal Antibody. Journal of Biological Chemistry, 1995, 270, 31303-31309.	3.4	135
13	Generation of â€œNeoheparinâ€•fromE.coliK5 Capsular Polysaccharide. Journal of Medicinal Chemistry, 2005, 48, 349-352.	6.4	114
14	The extostosin family: Proteins with many functions. Matrix Biology, 2014, 35, 25-33.	3.6	106
15	Substrate Specificity of the Heparan Sulfate Hexuronic Acid 2-O-Sulfotransferaseâ€. Biochemistry, 2001, 40, 5548-5555.	2.5	91
16	Biosynthetic Oligosaccharide Libraries for Identification of Protein-binding Heparan Sulfate Motifs. Journal of Biological Chemistry, 2002, 277, 30567-30573.	3.4	90
17	Heparan Sulfate Synthesized by Mouse Embryonic Stem Cells Deficient in NDST1 and NDST2 Is 6-O-Sulfated but Contains No N-Sulfate Groups. Journal of Biological Chemistry, 2004, 279, 42355-42358.	3.4	89
18	Identification and Expression in Mouse of Two Heparan Sulfate Glucosaminyl N-Deacetylase/N-Sulfotransferase Genes. Journal of Biological Chemistry, 1998, 273, 11902-11907.	3.4	84

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19	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. Biochemical Journal, 2003, 371, 131-142.	3.7	80
20	Biosynthesis of heparin. Purification of a 110-kDa mouse mastocytoma protein required for both glucosaminyl N-deacetylation and N-sulfation. Journal of Biological Chemistry, 1991, 266, 8044-9.	3.4	69
21	Syndecans promote integrin-mediated adhesion of mesenchymal cells in two distinct pathways. Experimental Cell Research, 2007, 313, 3902-3913.	2.6	68
22	Sulfs are regulators of growth factor signaling for satellite cell differentiation and muscle regeneration. Developmental Biology, 2007, 311, 464-477.	2.0	63
23	Substrate specificities of mouse heparan sulphate glucosaminyl 6-O-sulphotransferases. Biochemical Journal, 2003, 372, 371-380.	3.7	61
24	In Vitro Polymerization of Heparan Sulfate Backbone by the EXT Proteins. Journal of Biological Chemistry, 2003, 278, 41333-41337.	3.4	59
25	Expression of the Mouse Mastocytoma Glucosaminyl N-Deacetylase/N-Sulfotransferase in Human Kidney 293 Cells Results in Increased N-Sulfation of Heparan Sulfate. Biochemistry, 1996, 35, 5250-5256.	2.5	57
26	rib-2, a Caenorhabditis elegans Homolog of the Human Tumor Suppressor EXT Genes Encodes a Novel Î±1,4-N-Acetylglucosaminyltransferase Involved in the Biosynthetic Initiation and Elongation of Heparan Sulfate. Journal of Biological Chemistry, 2001, 276, 4834-4838.	3.4	57
27	Biosynthesis of Hyaluronan. Journal of Biological Chemistry, 2005, 280, 8813-8818.	3.4	54
28	Embryonic Fibroblasts with a Gene Trap Mutation in Ext1 Produce Short Heparan Sulfate Chains. Journal of Biological Chemistry, 2004, 279, 32134-32141.	3.4	52
29	Biosynthesis of heparin. O-sulfation of the antithrombin-binding region. Journal of Biological Chemistry, 1988, 263, 15474-84.	3.4	47
30	Enzymatically Active N-Deacetylase/N-Sulfotransferase-2 Is Present in Liver but Does Not Contribute to Heparan Sulfate N-Sulfation. Journal of Biological Chemistry, 2006, 281, 35727-35734.	3.4	44
31	Overexpression of UDP-glucose dehydrogenase in Escherichia coli results in decreased biosynthesis of K5 polysaccharide. Biochemical Journal, 2003, 374, 767-772.	3.7	42
32	Demonstration of a Novel Gene DEXT3 ofDrosophila melanogaster as the EssentialN-Acetylglucosamine Transferase in the Heparan Sulfate Biosynthesis. Journal of Biological Chemistry, 2002, 277, 13659-13665.	3.4	36
33	Oligosaccharide Library-based Assessment of Heparan Sulfate 6-O-Sulfotransferase Substrate Specificity. Journal of Biological Chemistry, 2003, 278, 24371-24376.	3.4	35
34	Mutation in the Heparan Sulfate Biosynthesis Enzyme EXT1 Influences Growth Factor Signaling and Fibroblast Interactions with the Extracellular Matrix. Journal of Biological Chemistry, 2009, 284, 34935-34943.	3.4	34
35	Endothelial heparan sulfate deficiency reduces inflammation and fibrosis in murine diabetic nephropathy. Laboratory Investigation, 2018, 98, 427-438.	3.7	33
36	Expression of heparan sulphate l-iduronyl 2-O-sulphotransferase in human kidney 293 cells results in increased d-glucuronyl 2-O-sulphation. Biochemical Journal, 2000, 346, 463-468.	3.7	29

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37	Role of 6-O-Sulfated Heparan Sulfate in Chronic Renal Fibrosis. Journal of Biological Chemistry, 2014, 289, 20295-20306.	3.4	26
38	The exostosin family of glycosyltransferases: mRNA expression profiles and heparan sulphate structure in human breast carcinoma cell lines. Bioscience Reports, 2018, 38, .	2.4	26
39	Fibroblast Î±11Î²1 Integrin Regulates Tensional Homeostasis in Fibroblast/A549 Carcinoma Heterospheroids. PLoS ONE, 2014, 9, e103173.	2.5	22
40	Fibroblast EXT1-Levels Influence Tumor Cell Proliferation and Migration in Composite Spheroids. PLoS ONE, 2012, 7, e41334.	2.5	21
41	Drosophila Heparan Sulfate, a Novel Design. Journal of Biological Chemistry, 2012, 287, 21950-21956.	3.4	20
42	Molecular analysis of heparan sulfate biosynthetic enzyme machinery and characterization of heparan sulfate structure in <i>Nematostella vectensis</i>. Biochemical Journal, 2009, 419, 585-593.	3.7	19
43	Target selection of heparan sulfate hexuronic acid 2-O-sulfotransferase. Glycobiology, 2010, 20, 1274-1282.	2.5	18
44	Mouse Mastocytoma Cells Synthesize Undersulfated Heparin and Chondroitin Sulfate in the Presence of Brefeldin A. Journal of Biological Chemistry, 1997, 272, 3200-3206.	3.4	15
45	Heparan sulfate expression is affected by inflammatory stimuli in primary human endothelial cells. Glycoconjugate Journal, 2012, 29, 67-76.	2.7	15
46	Reduced Expression of EXTL2, a Member of the Exostosin (EXT) Family of Glycosyltransferases, in Human Embryonic Kidney 293 Cells Results in Longer Heparan Sulfate Chains. Journal of Biological Chemistry, 2015, 290, 13168-13177.	3.4	13
47	Expression of heparan sulphate L-iduronyl 2-O-sulphotransferase in human kidney 293 cells results in increased D-glucuronyl 2-O-sulphation. Biochemical Journal, 2000, 346, 463.	3.7	12
48	Overexpression of Heparan Sulfate 6-O-Sulfotransferases in Human Embryonic Kidney 293 Cells Results in Increased N-Acetylglucosaminyl 6-O-Sulfation. Journal of Biological Chemistry, 2006, 281, 5348-5356.	3.4	12
49	Remodeling of Heparan Sulfate Sulfation by Extracellular Endosulfatases. , 2005, , 245-258.		9
50	Heparan sulfate in chronic kidney diseases: Exploring the role of 3-O-sulfation. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 839-848.	2.4	9
51	Purification of a 75 kDa protein from the organelle matrix of human neutrophils and identification as N-acetylglucosamine-6-sulphatase. Biochemical Journal, 2005, 387, 841-847.	3.7	7
52	Potential role for Ext1-dependent heparan sulfate in regulating P311 gene expression in A549 carcinoma cells. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1472-1481.	2.4	6
53	A dominant negative splice variant of the heparan sulfate biosynthesis enzyme NDST1 reduces heparan sulfate sulfation. Glycobiology, 2022, , .	2.5	4
54	Heparan sulfate dependent binding of plasmatic von Willebrand factor to blood circulating melanoma cells attenuates metastasis. Matrix Biology, 2022, 111, 76-94.	3.6	3

#	Article	IF	Citations
55	Role of the Extracellular Matrix in Tumor Stroma: Barrier or Support?. , 2017, , 77-112.		0