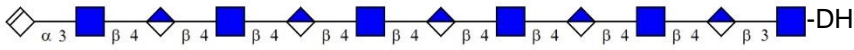
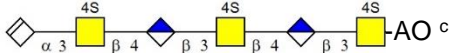
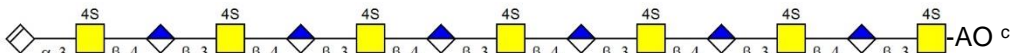
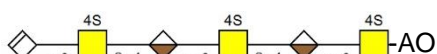
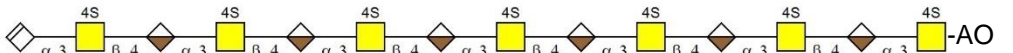
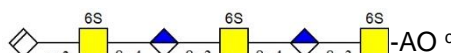
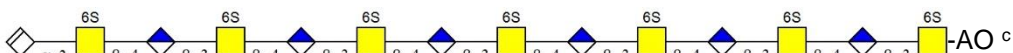
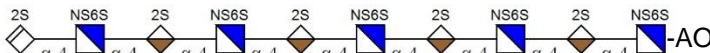
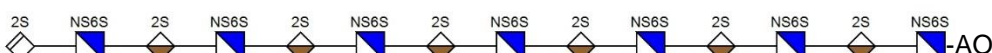
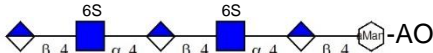
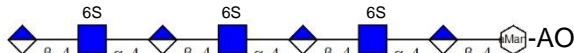


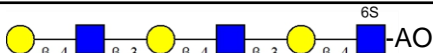
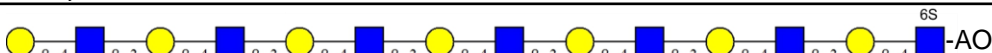






Table S1. Probes investigated in a focused GAG microarray


Chart Position	Probe ^a	Sequence ^b
1	HA 12-mer	 -DH
2	CS-A 6-mer	 -AO ^c
3	CS-A 14-mer	 -AO ^c
4	CS-B 6-mer	 -AO
5	CS-B 14-mer	 -AO
6	CS-C 6-mer	 -AO ^c
7	CS-C 14-mer	 -AO ^c
8	Hep 10-mer	 -AO
9	Hep 14-mer	 -AO
10	HS S6-mer	 -AO May contain small amounts of GlcNS(6S) and IdoA(2S); some GlcNAc may be non-sulfated
11	HS S8-mer	 -AO May contain small amounts of GlcNS(6S) and IdoA(2S); some GlcNAc may be non-sulfated
12	KS 6-mer (K'ase I)	 -AO Variously 6S on Gal and GlcNAc
13	KS 14-mer (K'ase I)	 -AO Variously 6S on Gal and GlcNAc
14	KS 6-mer (K'ase II)	 -AO Variously 6S on Gal and GlcNAc
15	KS 14-mer (K'ase II)	 -AO Variously 6S on Gal and GlcNAc


 Iduronic acid (IdoA)


 Glucosamine (GlcNH₂)


 Galactose (Gal)

 4,5-unsaturated hexuronic acid (dUA)

 Glucuronic acid (GlcA)

 N-acetyl Glucosamine (GlcNAc)

 N-acetyl Galactosamine (GalNAc)

 2,5-anhydro-Mannose (ManA)

^a Probes are neoglycolipids (NGLs). Arabic numbers in the probe names are used to designate the size of the major component in each fraction. K'ase I and II denote keratanase I and II digestion products (further details are in Table S2).

^b Probes 1-9: only the main components (or 'idealised sequences' in the case of CS-related probes) are shown as representative. Other components with different sulfation contents or patterns exist as the GAG chains are complex and heterogeneous. Probes 10-15: mixtures of oligosaccharide with various sulfation contents/positions as indicated. DH and AO, lipid moieties of NGLs prepared by reductive amination and oxime ligation, respectively (further details are in Table S2).

^c Only 'idealised sequences' are shown. CS-A and CS-C both contain GalNAc(4S) and GalNAc(6S) but with different ratios. For CS-A the ratio of 4S:6S≈3:2, whereas for CS-C 4S:6S≈1:4, in the respective polysaccharides ([Chai W. et al. J Biol Chem. 227:22438-22446, 2002](#)).