

Synthesis and potential antimetastatic activity of monovalent and divalent β -D-galactopyranosyl-(1 $\rightarrow$ 4)-2-acetamido-2-deoxy-D-glucopyranosides

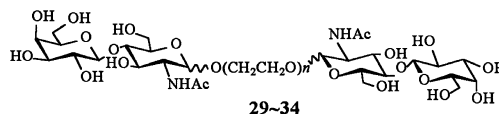
Carbohydr. Res. **2003**, 338, 207

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Six divalent *O*- β -D-galactopyranosyl-(1 $\rightarrow$ 4)-2-acetamido-2-deoxy-D-glucopyranosides (**29–34**) were synthesized and their antimetastatic activities were studied.



Purification and characterization of an endo- β -(1 $\rightarrow$ 6)-galactanase from *Trichoderma viride*

Carbohydr. Res. **2003**, 338, 219

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A fungal galactanase endo-hydrolyzed β -(1 $\rightarrow$ 6)-galactooligomers longer than DP 3. It liberated Gal and β -(1 $\rightarrow$ 6)-galactobiose from the β -3,6-galactan moieties of an arabinogalactan-protein.

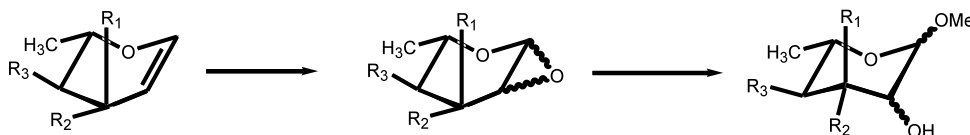
Epoxidation of C-branched glycals: unexpected stereochemical results and their theoretical rationale

Carbohydr. Res. **2003**, 338, 231

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Structural determination of the lipo-chitin oligosaccharide nodulation signals produced by *Rhizobium giardinii* bv. *giardinii* H152

Carbohydr. Res. **2003**, 338, 237

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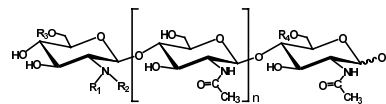
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The following structures were determined: $R_1 = C_{20:0}$, $C_{18:0}$, $C_{18:1}$ or $C_{16:0}$; $R_2 = H$ or Me ; $R_3 = CONH_2$; $R_4 = SO_3^-$, Ac or H ; $n = 2$ or 3 .



Heparin antiproliferative activity on bovine pulmonary artery smooth muscle cells requires both N-acetylation and N-sulfonation

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There is a direct correlation between the degree of heparin N-acetylation and its antiproliferative activity on pulmonary artery smooth muscle cells *in vitro*. This activity also requires that about 25% of the total sulfonate be bonded to N.

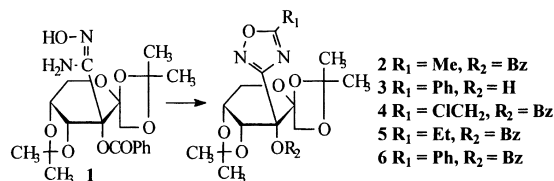
Stereoselective synthesis of 1,2:4,5-di-*O*-isopropylidene-3-*C*-(5-phenyl-1,2,4-oxadiazol-3-yl)- β -D-psicopyranose and its X-ray crystallographic analysis

Jianxin Yu,^{a,b} Suna Zhang,^a Zhongjun Li,^b Wenjie Lu,^c Rong Zhou,^a Yuting Liu,^a Mengshen Cai^b

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Purification and characterization of dermatan sulfate from the skin of the eel, *Anguilla japonica*

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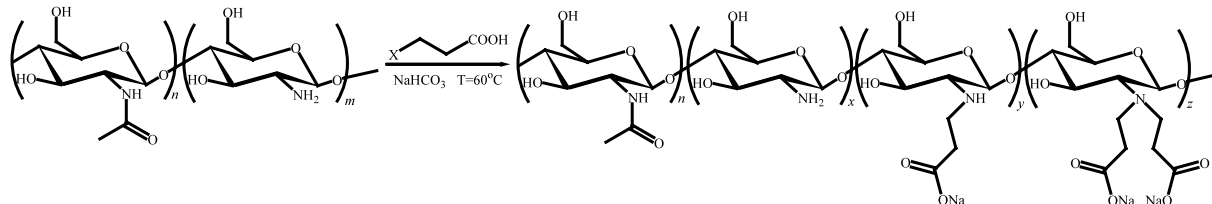
Glycosaminoglycans were isolated from the eel skin. Dermatan sulfate was the major glycosaminoglycan in the eel skin with 88% of the total uronic acid and showing low anti-IIa activity.

N-(2-Carboxyethyl)chitosans: regioselective synthesis, characterisation and protolytic equilibria

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Structural elucidation of the O-chain of the lipopolysaccharide from *Xanthomonas campestris* strain 8004

Carbohydr. Res. **2003**, *338*, 277

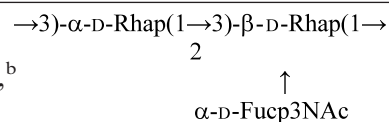
Antonio Molinaro,^a Alba Silipo,^a Rosa Lanzetta,^a Mari-Anne Newman,^b
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A novel O-specific polysaccharide containing 3-acetamido-3-deoxy- α -D-fucose (Fuc3NAc) and D-rhamnose was isolated from the phenol-soluble lipopolysaccharide fraction of the plant associated bacterium *Xanthomonas campestris* strain 8004. The structure, determined by means of chemical analysis and 1D and 2D NMR spectroscopy, consisted of a branched trisaccharide repeating unit, as shown below:



Synthesis and structural analyses of 3-acetamido-1,4-di-O-acetyl-2,3,5-trideoxy-5-C-(isopropylphosphinyl)-D-erythro-pentopyranoses

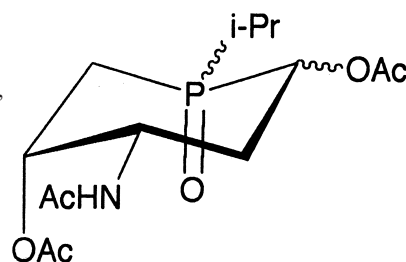
Carbohydr. Res. **2003**, *338*, 283

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Tadashi Hanaya,^c Yoshihiro Hamauzu,^a Hiroshi Yamamoto^c

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Synthesis of anellated carbasugars from (–)-quinic acid

Carbohydr. Res. **2003**, *338*, 293

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