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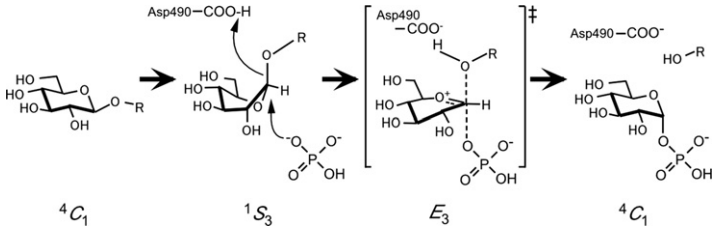
Carbohydrate
RESEARCH

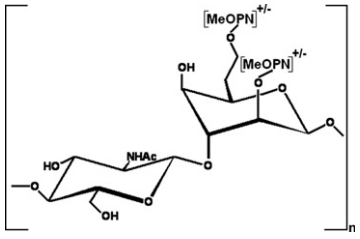
Carbohydrate Research Vol. 343, No. 6, 2008

# Contents

## FULL PAPERS





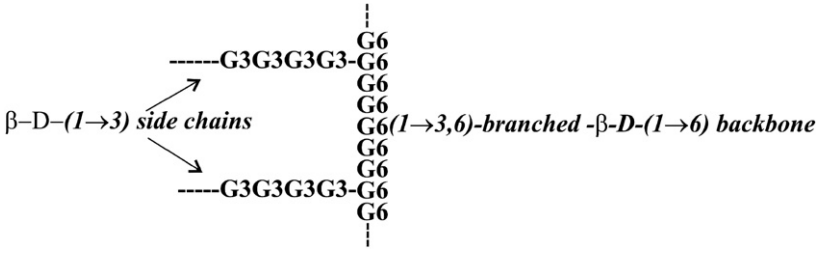

*Campylobacter jejuni* CG8486 CPS is composed of 17 disaccharide repeating blocks of *N*-acetyl-β-D-glucopyranosamine and 6-deoxy-β-D-*ido*-heptopyranose, with the latter carrying *O*-methyl phosphoramidate moieties at the O-2 or O-7 position.

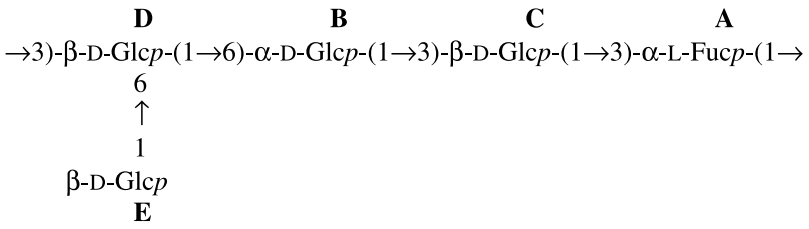


α-Rha*p*-(1→4)-α-Gal*p*A-(1→2)-α-Rha*p*-(1→4)-α-Gal*p*A
4 4
↑ ↑
1 1

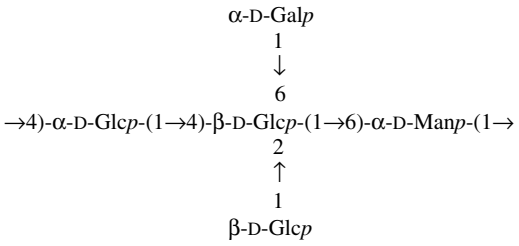
β-Gal*p* α-Ara*f*-(1→3)-β-Gal*p*-(4←1)-α-Ara*f*



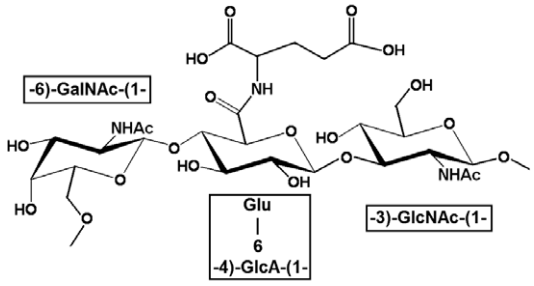




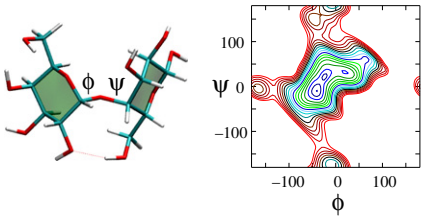




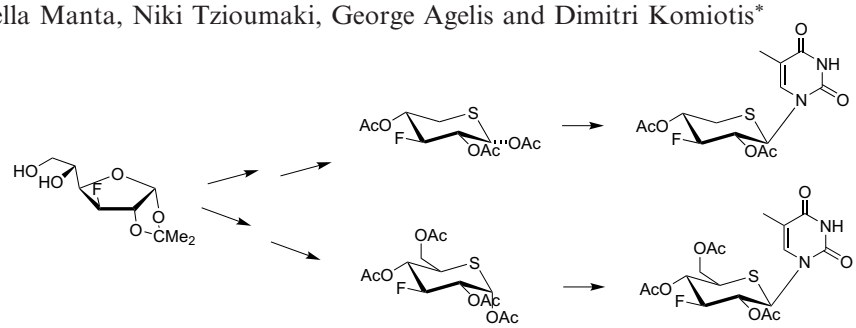





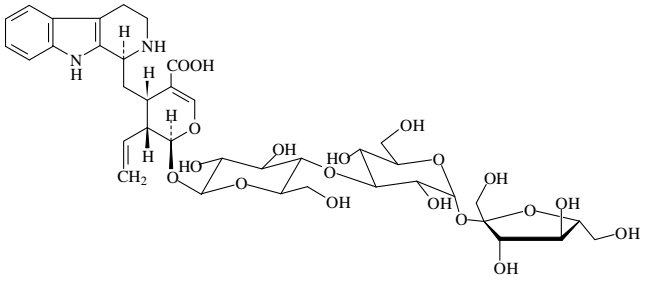



## NOTES









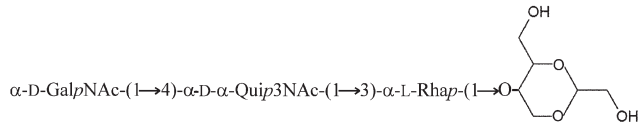


→ 6)-α-D-Glc*p*-(1→4)-β-D-Glc*p*-(1→ 6)-β-D-Glc*p*-(1→
6
↑
1
α-D-Gal*p*



A $^{1}$H NMR structural-reporter-group concept, based on the analysis of a series of linear α-D-glucopyranose di- and trisaccharide structures, has been formulated to function as a tool in the structural analysis of bacterial α-D-glucans.

Two different oligosaccharides: α-D-Gal*p*NAc-(1→4)-α-D-Qui*p*3NAc-(1→3)-α-L-Rha*p*-(1→2)-threitol and




where Qui*p*3NAc is 3-acetamido-3,6-dideoxyglucose, were obtained from the Smith degradation of the O-polysaccharide isolated from the lipopolysaccharide of *Salmonella* Dakar. This paper presents practical methods for isolating and determining the full structure of such compounds.

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

## COVER

The graphic represents a molecular dynamics simulation of water density around the disaccharide α-D-Ara*f*-(1→5)-α-D-Ara*f*-$OCH_3$, highlighting the interglycosidic linkage. The red clouds represent regions where the probability of finding an oxygen atom is high while the gray clouds are for hydrogen atoms. This work is the result of a collaboration in the Alberta Ingenuity Centre for Carbohydrate Science and Department of Chemistry at the University of Alberta between the groups of Pierre-Nicolas Roy and Todd L. Lowary (Castillo, N.; Roy, P. N.; Lowary, T. L. Manuscript in Preparation).

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