

Carbohydrate Research Vol. 343, No. 14, 2008

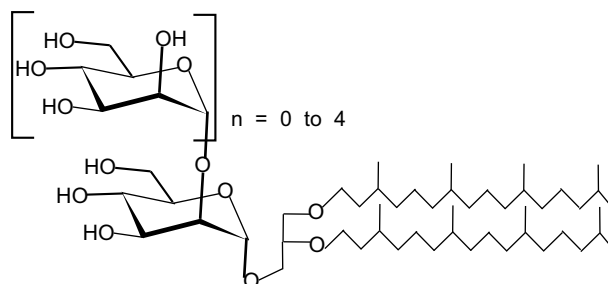
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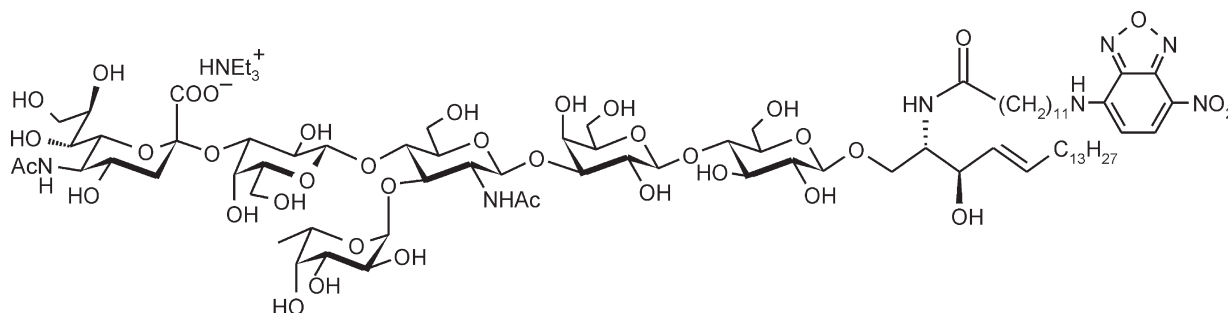
Dennis M. Whitfield ^{*}, Eva E. Eichler, G. Dennis Sprott



Visualization of sialyl Lewis^x glycosphingolipid microdomains in model membranes as selectin recognition motifs using a fluorescence label

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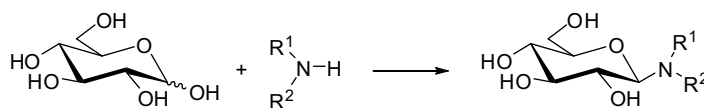
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Théoneste Muhizi, Véronique Coma, Stéphane Grelier ^{*}



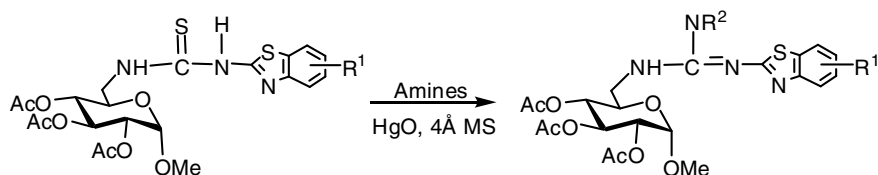
R¹ and R² = -H or -alkyl



An expedient one-step synthesis of polysubstituted guanidinogluco- sides using HgO–4 Å molecular sieves as catalyst

pp 2376–2383

Yong-Hua Liu, Ling-Hua Cao *



Catfish (*Clarias batrachus*) serum lectin recognizes polyvalent Tn [α -D-GalpNAc1-Ser/Thr], T α [β -D-Galp-(1 $\rightarrow$ 3)- α -D-GalpNAc1-Ser/Thr], and II [β -D-Galp(1 $\rightarrow$ 4)- β -D-GlcpNAc1-] mammalian glycotopes

pp 2384–2392

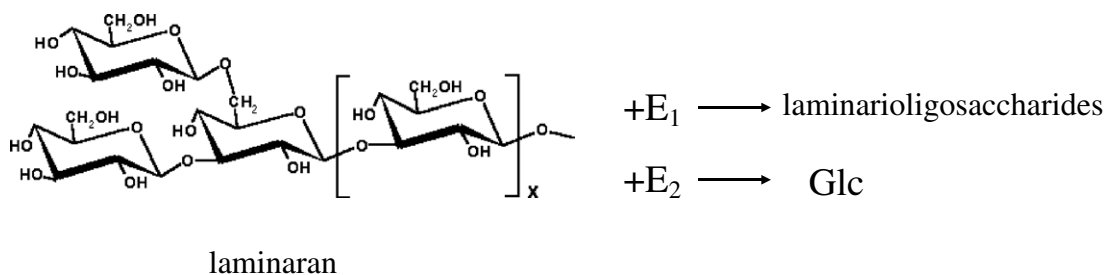
Biswajit Singha, Mausumi Adhya, Bishnu P. Chatterjee *

Order of avidity for ligands: polyvalent Tn, T α , and II $\gg$ Tn $\geq$ Me- α GalNAc > T α > Me- β GalNAc > Me- α Gal > T > GalNAc > F > II > Me- β Gal > Gal.

Catalytic properties and mode of action of *endo*-(1 $\rightarrow$ 3)- β -D-glucanase and β -D-glucosidase from the marine mollusk *Littorina kurila*

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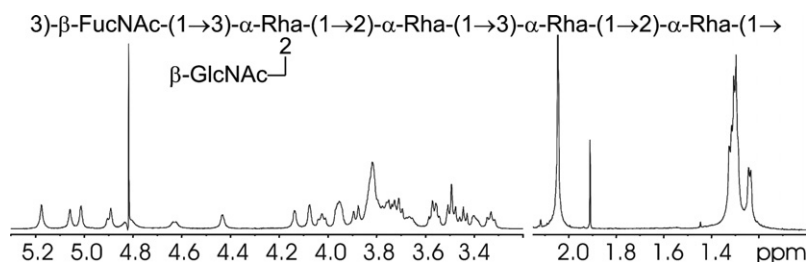
Maria S. Pesentseva, Mikhail I. Kusaykin *, Stanislav D. Anastuyuk, Victoria V. Sova, Tatyana N. Zvyagintseva



Structural elucidation of the capsular polysaccharide isolated from *Kaistella flava*

pp 2401–2405

Valentina Gargiulo, Cristina De Castro *, Rosa Lanzetta, Yi Jiang, Li-Hua Xu, Cheng-Lin Jiang, Antonio Molinaro, Michelangelo Parrilli



pp 2406–2410

major sequence variable sequence
 $X = H \text{ or } SO_3^- \text{ and } Y = Ac \text{ or } SO_2^-$

pp 2411–2416

The diagram illustrates the effect of methylglucosyl transferase on amylose. It shows two types of methylated amylose: suspension-methylated and solution-methylated. In the suspension-methylated form, methyl groups (black circles) are attached to glucose units (white circles) in a branched structure. In the solution-methylated form, methyl groups are attached to glucose units in a linear structure. Arrows indicate the action of α -Amylase and Amyloglucosidase on these structures.

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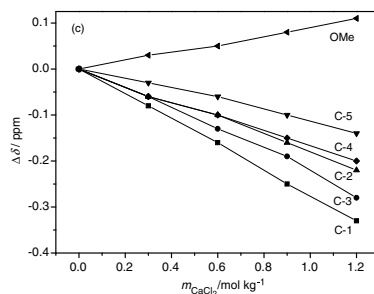
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[illegible]

A ^{13}C NMR study on the interactions of calcium chloride/potassium chloride with pyranosides in D_2O

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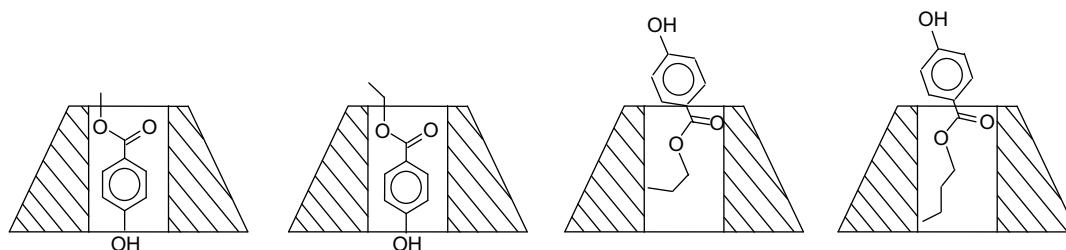
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A structural and thermal investigation of the inclusion of parabens in heptakis(2,6-di-O-methyl)cyclomaltoheptaose

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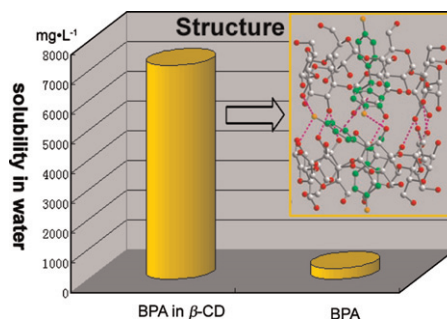
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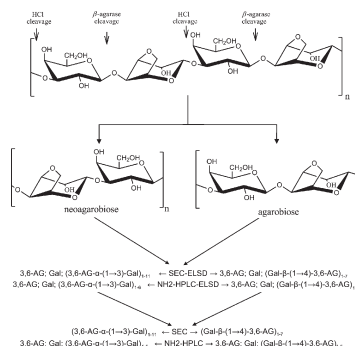
Zi-Xin Yang, Yong Chen, Yu Liu *



Separation and quantification of neoagaro- and agaro-oligosaccharide products generated from agarose digestion by β -agarase and HCl in liquid chromatography systems

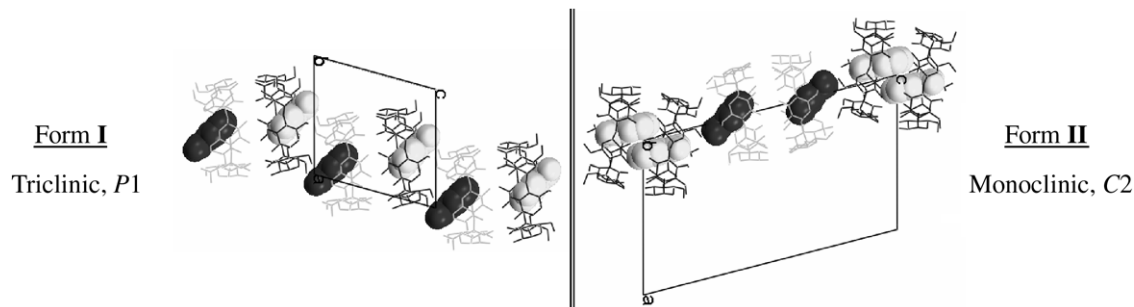
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Bartosz Kazłowski, Chong Liang Pan, Yuan Tih Ko *



Polymorphism in β -cyclodextrin–benzoic acid inclusion complex: a kinetically controlled crystal growth according to the Ostwald's rule

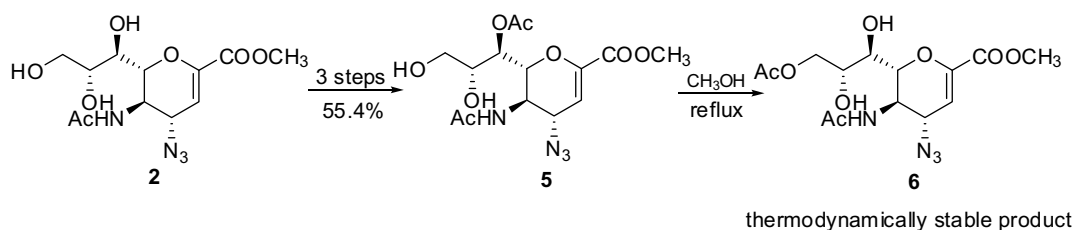
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Thammarat Aree ^{*}, Narongsak Chaichit, Chainarong Engkakul

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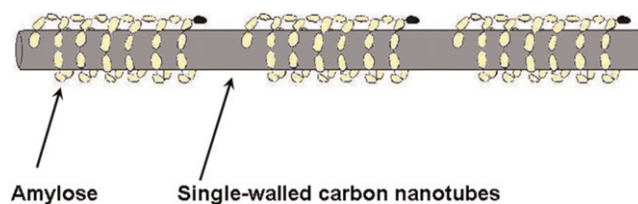
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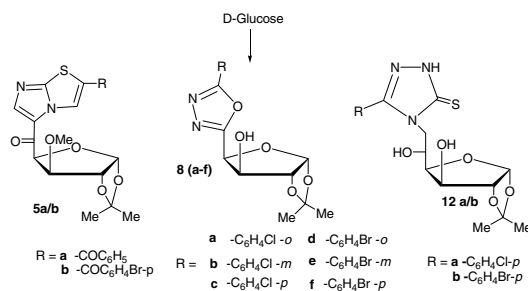
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Synthesis and antiviral activity of azoles obtained from carbohydrates

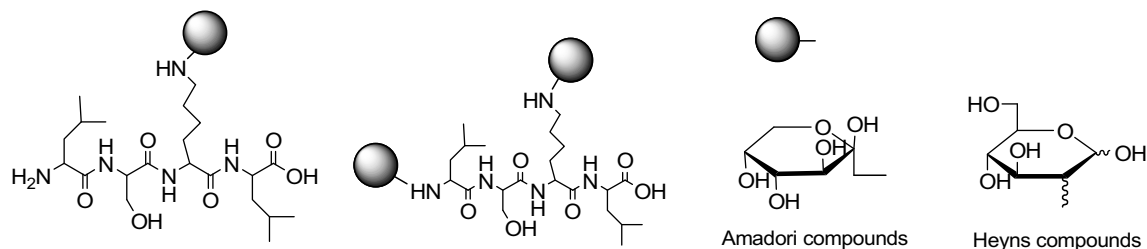
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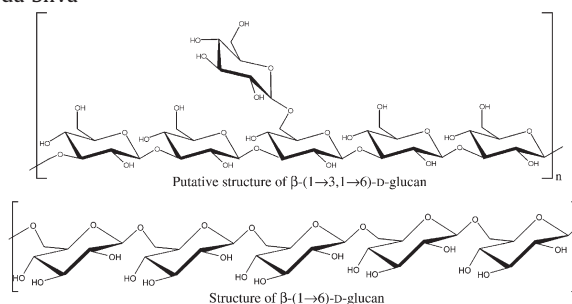
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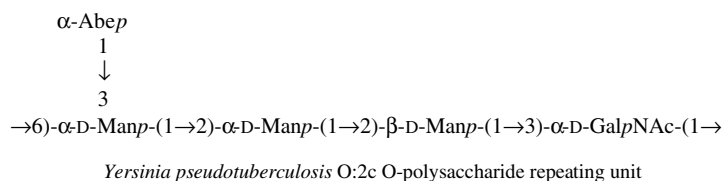
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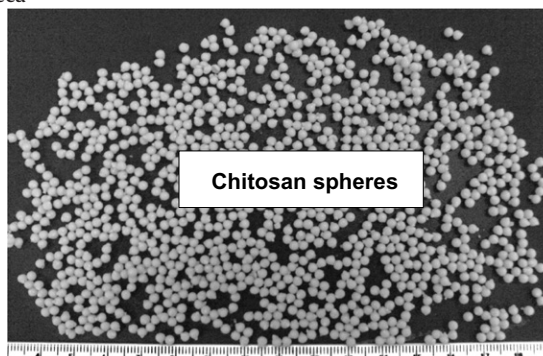
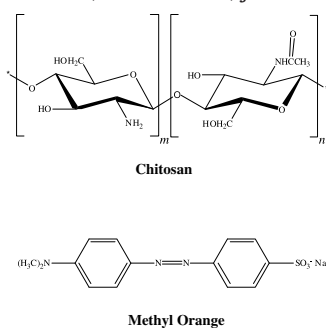
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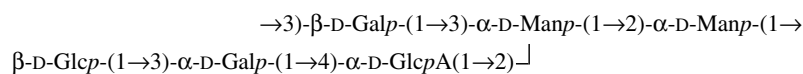
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Structure of the O-specific polysaccharide of the lipopolysaccharide of *Rahnella aquatilis* 95 U003

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Evelina L. Zdorovenko *, Lyudmyla D. Varbanets, George V. Zatonsky, Vadim V. Kachala, Galina M. Zdorovenko, Alexander S. Shashkov, Yuriy A. Knirel

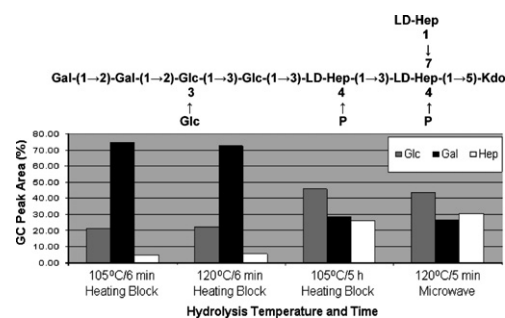
**Hydrolysis of bacterial wall carbohydrates in the microwave using trifluoroacetic acid**

pp 2498–2503

Jianqiang Zhao, Mario A. Monteiro *

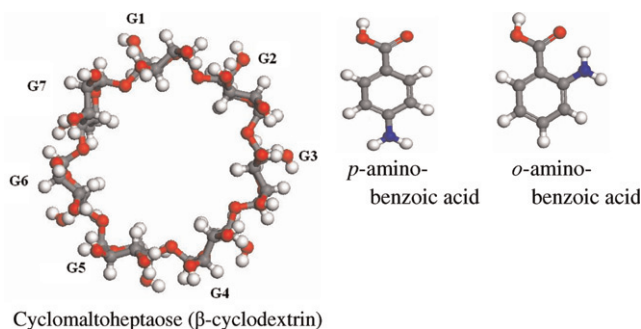
Microwave-accelerated hydrolysis of bacterial polysaccharides

- 5 h for conventional hydrolysis with 4 M TFA at 100 °C.
- 5 min for microwave hydrolysis with 4 M TFA at 120 °C (90 psi).

**Crystal structure of cyclomaltoheptaose (β-cyclodextrin) complexes with *p*-aminobenzoic acid and *o*-aminobenzoic acid**

pp 2504–2508

Yimin Zhang *, Shanbao Yu, Feng Bao



*Corresponding author

 Supplementary data available via ScienceDirect

COVER

The graphic represents a molecular dynamics simulation of water density around the disaccharide α -D-Araf-(1 $\rightarrow$ 5)- α -D-Araf-OCH₃, 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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