

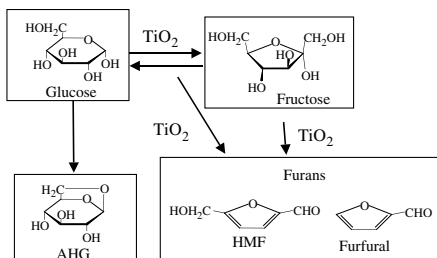
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FULL PAPERS

Glucose reactions with acid and base catalysts in hot compressed water at 473 K

pp 1925–1930

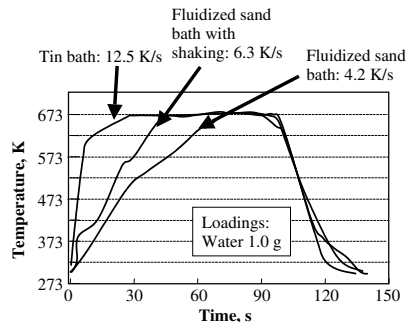
Masaru Watanabe, Yuichi Aizawa, Toru Iida, Taku M. Aida, Caroline Levy, Kiwamu Sue and Hiroshi Inomata*



Glucose reactions within the heating period and the effect of heating rate on the reactions in hot compressed water

pp 1931–1939

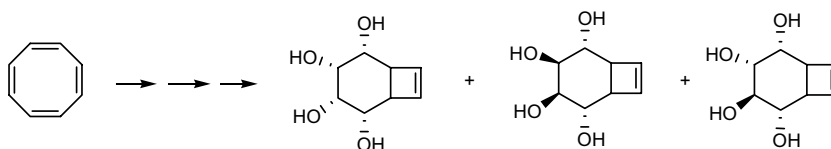
Masaru Watanabe, Yuichi Aizawa, Toru Iida, Caroline Levy, Taku M. Aida and Hiroshi Inomata*



Stereospecific synthesis of a new class of compounds: bis-homocondurititol-A, -D, and -F

pp 1940–1948

Latif Kelebekli, Yunus Kara* and Metin Balci*



Syntheses of β -(1 $\rightarrow$ 6)-branched β -(1 $\rightarrow$ 3)-linked D-galactans that exist in the rhizomes of *Atractylodes lancea* DC

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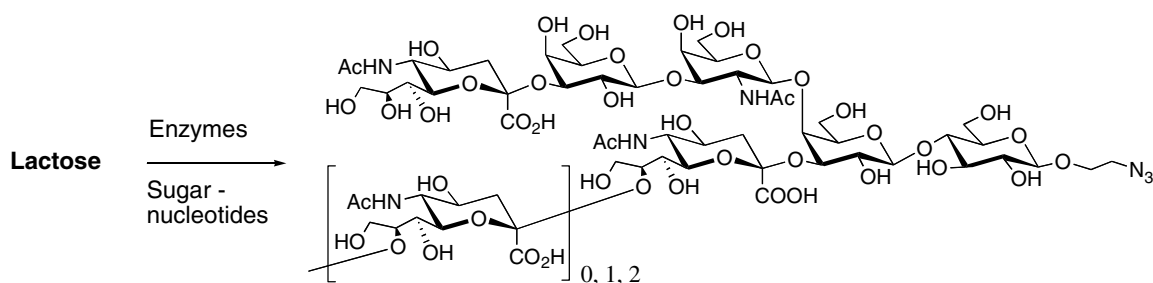
Aixiao Li and Fanzuo Kong*



Chemoenzymatic synthesis of 2-azidoethyl-ganglio-oligosaccharides GD3, GT3, GM2, GD2, GT2, GM1, and GD1a

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Purification and molecular characterization of a sialic acid specific lectin from the phytopathogenic fungus *Macrophomina phaseolina*

pp 1973–1982

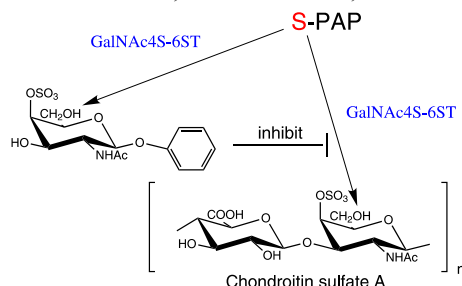
Jayati Bhowal, Arun Kumar Guha and Bishnu Pada Chatterjee*

MPL specificity order α -Neu5Ac-(2 $\rightarrow$ 3)- β -Gal-(1 $\rightarrow$ 4)-GlcNAc > α -Neu5Ac-(2 $\rightarrow$ 6)- β -Gal-(1 $\rightarrow$ 4)-GlcNAc >> Neu5Ac.

Synthesis of sulfated phenyl 2-acetamido-2-deoxy-D-galactopyranosides. 4-O-Sulfated phenyl 2-acetamido-2-deoxy- β -D-galactopyranoside is a competitive acceptor that decreases sulfation of chondroitin sulfate by N-acetylgalactosamine 4-sulfate 6-O-sulfotransferase

pp 1983–1996

Toshihiko Sawada, Sonoko Fujii, Hirofumi Nakano, Shiori Ohtake, Koji Kimata and Osami Habuchi*



pp 1997–2003

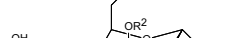
CCCC(=O)N[C@@H]1[C@H](O)[C@H](O)[C@@H](O)[C@@H](CO)O1

pp 2004–2009

pp 2010–2014

$$\rightarrow 4)-\alpha\text{-D-GlcpNAc-(1}\rightarrow 4)-\alpha\text{-D-GalpA-(1}\rightarrow 2)-\beta\text{-D-Ribf-(1}\rightarrow 4)-\beta\text{-D-Galp-(1}\rightarrow 3)-\beta\text{-D-GalpNAc-(1}\rightarrow$$

pp 2015–2023



 $R^1, R^2 \text{ and } R^3 = \text{H or SO}_3^-$

B. occidentalis { R^1 as SO_3^- ~ 66%
 R^2 as SO_3^- ~ 33%

G. crinale { R^1 as SO_3^- ~ 60%
 R^2 as SO_3^- ~ 15%

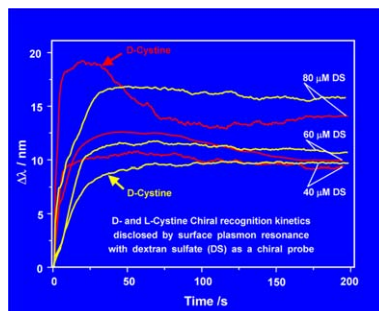


G. cornea

Chiral recognition of dextran sulfate with D- and L-cystine studied by multiwavelength surface plasmon resonance

pp 2024–2029

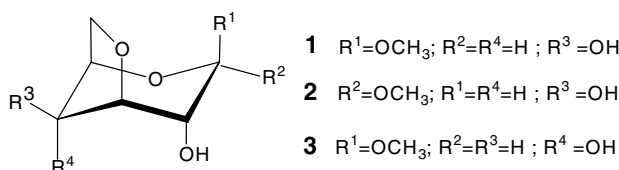
Yi Chen,* Haowen Huang, Xiao Yu and Li Qi



Modeling ring puckering in strained systems: application to 3,6-anhydroglycosides

pp 2030–2038

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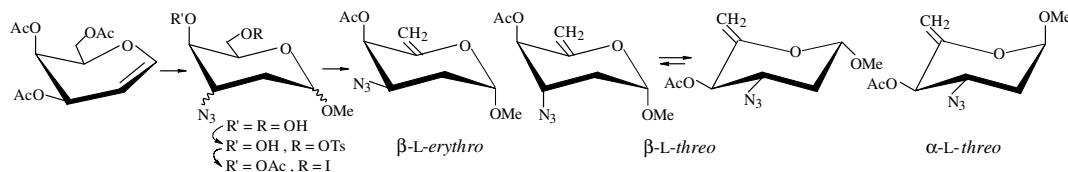


NOTES

Synthesis and conformational studies on methyl 4-O-acetyl-3-azido-2,3,6-trideoxy-hex-5-enopyranosides of the L series

pp 2039–2047

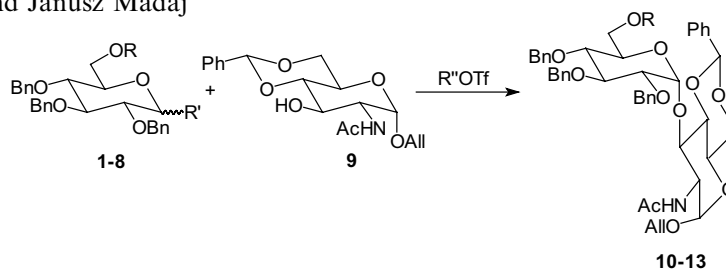
Beata Liberek



Glycosylation of allyl 2-acetamido-4,6-O-benzylidene-2-deoxy-α-D-glucopyranoside with bulky substituted glycosyl donors

pp 2048–2051

Magdalena Jankowska and Janusz Madaj*

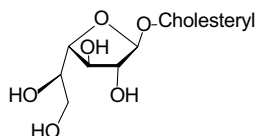


Glycosylation of allyl 2-acetamido-4,6-O-benzylidene-2-deoxy-α-D-glucopyranoside with bulky substituted glycosyl donors leads to the formation of derivatives of the disaccharide α-D-Glc-(1→3)-D-GlcNAc with different yields.

Chemical synthesis of cholesteryl β -D-galactofuranoside and -pyranoside

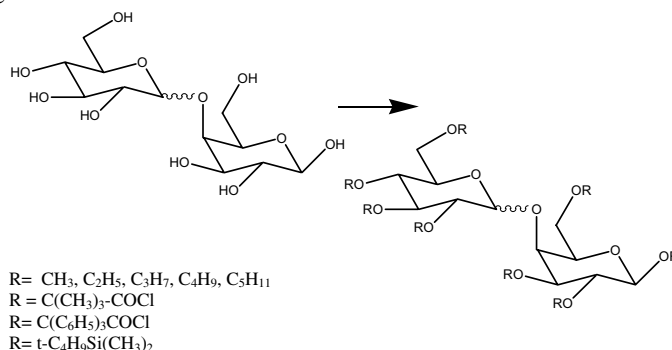
pp 2052–2054

Dumitru Petru Iga,* Silvia Iga, Richard R. Schmidt and Maria-Cristina Buzas

**Synthesis of sterically crowded derivatives of anomeric pairs of D-glucose disaccharides**

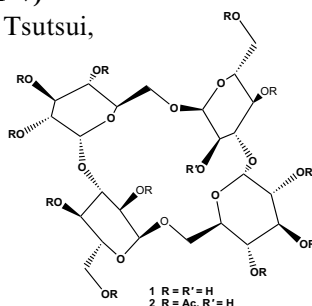
pp 2055–2059

Sanford Mendonca and Roger A. Laine*

**Identification of bound water molecules in the cyclic tetrasaccharide, *cyclo*-{ $\rightarrow 6$ }- α -D-Glcp-(1 $\rightarrow$ 3)- α -D-Glcp-(1 $\rightarrow$ 6)- α -D-Glcp-(1 $\rightarrow$ 3)- α -D-Glcp-(1 $\rightarrow$)-**

pp 2060–2063

Kazuo Furihata, Takashi Fujimoto, Ayumi Tsutsui, Tomoya Machinami* and Mitsuru Tashiro*

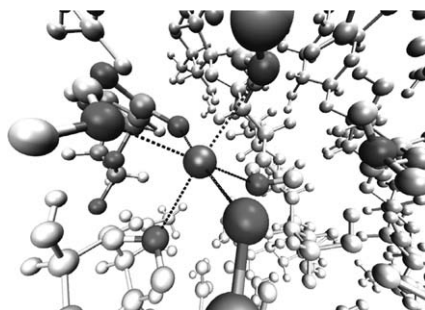


Bound water molecules in the cyclic tetrasaccharide were identified by NMR spectroscopy.

Molecular modeling of cobalt(II) hyaluronate

pp 2064–2069

Elizabeta Tratar Pirc,* Jernej Zidar, Peter Bukovec and Milan Hodošček



First coordination shell around cobalt(II) ion.

*Corresponding author

 Supplementary data available via ScienceDirect

COVER

Model of blood group A trisaccharide in the binding site of the *Dolichos biflorus* lectin as established by a combination of theoretical and experimental approaches. Molecular modeling of the oligosaccharide demonstrated that two different conformations could be adopted by the trisaccharide in the binding site. NMR experiments using transferred nuclear Overhauser effects (TRNOE) displayed intermolecular contacts (blue arrows) corresponding to only one of the two theoretical conformations. This work is a collaboration between Anne Imberty (CERMAV, Grenoble) and Thomas Peters (University of Lübeck) and was presented during the XXIInd International Carbohydrate Symposium (Glasgow, 2004) on the occasion of the Whistler award.

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