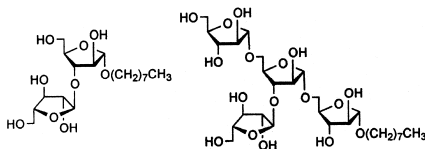


**Synthesis of octyl arabinofuranosides as substrates for mycobacterial arabinosyltransferases**

*Carbohydr. Res.* **2003**, 338, 581

Jeongseok Han, Rajendrakumar Reddy Gadikota, Patrick R. McCarren, Todd L. Lowary

Department of Chemistry, The Ohio State University, 100 West 18th Avenue, Columbus, OH 43210, USA

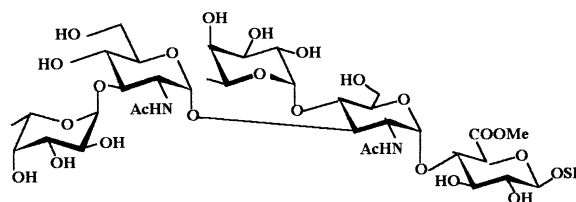


**Synthesis of the pentasaccharide related to the repeating unit of the antigen from *Shigella dysenteriae* type 4 in the form of its methyl ester 2-(trimethylsilyl)ethyl glycoside**

*Carbohydr. Res.* **2003**, 338, 589

Balaram Mukhopadhyay, Nirmolendu Roy

Department of Biological Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Calcutta 700 032, India

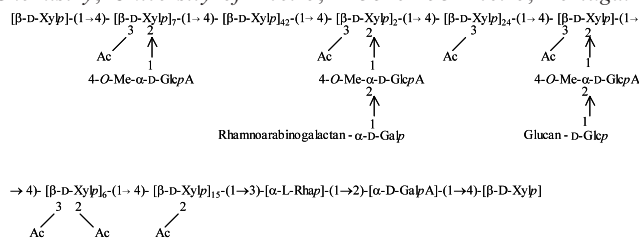


**Characterization of an acetylated heteroxylan from *Eucalyptus globulus* Labill**

*Carbohydr. Res.* **2003**, 338, 597

Dmitry V. Evtuguin, Jorge L. Tomás, Artur M.S. Silva, Carlos Pascoal Neto

CICECO and Department of Chemistry, University of Aveiro, P 3810-193 Aveiro, Portugal



**Structural analysis of the *Lactobacillus rhamnosus* strain KL37C exopolysaccharide**

*Carbohydr. Res.* **2003**, 338, 605

Tomasz Lipiński,<sup>a</sup> Christopher Jones,<sup>b</sup> Xavier Lemercinier,<sup>b</sup> Agnieszka Korzeniowska-Kowal,<sup>a</sup> Magdalena Strus,<sup>c</sup> Jacek Rybka,<sup>a</sup> Andrzej Gamian,<sup>a</sup> Piotr B. Heczko<sup>c</sup>

<sup>a</sup>Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Weigla 12, PL-53 114 Wrocław, Poland

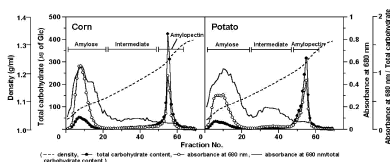
<sup>b</sup>Laboratory for Molecular Structure, National Institute for Biological Standards and Control, Blanche Lane, South Mimms, Herts EN6 3QG, UK

<sup>c</sup>Chair of Microbiology, Jagiellonian University Medical College, Czysta 18, PL-31 121, Kraków, Poland



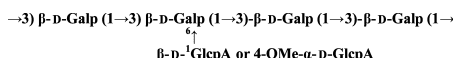
*Carbohydr. Res.* **2003**, *338*, 611

Graduate School of Biotechnology, Korea University, 1,5-Ka, Anam-dong, Sungbuk-ku, Seoul 136-701, Republic of Korea

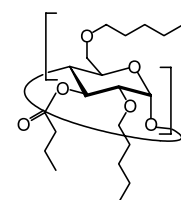


---

*Carbohydr. Res.* **2003**, *338*, 619

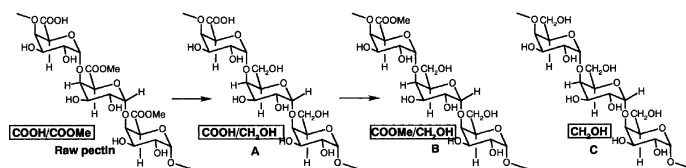


*Carbohydr. Res.* **2003**, *338*, 625



Lipodex E

*Carbohydr. Res.* **2003**, *338*, 637



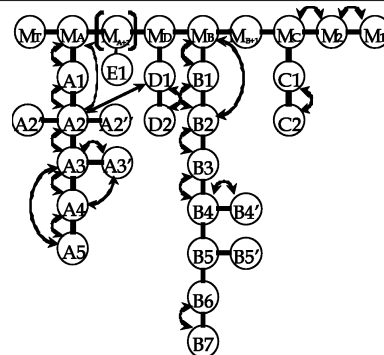
### The three-dimensional structure of the mega-oligosaccharide rhamnogalacturonan II monomer: a combined molecular modeling and NMR investigation

Miguel A. Rodríguez-Carvajal,<sup>a</sup> Catherine Hervé du Penhoat,<sup>a</sup> Karim Mazeau,<sup>a</sup> Thierry Doco,<sup>b</sup> Serge Pérez<sup>a</sup>

<sup>a</sup>Centre de Recherches sur les Macromolécules Végétales, CNRS

(associated with University Joseph Fourier), BP 53, 38041 Grenoble Cedex 9, France

<sup>b</sup>Unité Mixte de Recherches Sciences Pour l'Œnologie, Laboratoire des Biopolymères, 2 Place Viala, 34060 Montpellier, France



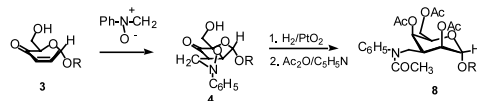
### Synthesis of new branched-chain amino sugars

João R. de Freitas Filho,<sup>a</sup> Rajendra M. Srivastava,<sup>a</sup> Waldenberg J.P. da Silva,<sup>a</sup> Louis Cottier,<sup>b</sup> Denis Sinou<sup>b</sup>

<sup>a</sup>Departamento de Química Fundamental, Universidade Federal de Pernambuco Cidade Universitária, CCEN, 50.740-540, Recife, PE, Brazil

<sup>b</sup>Laboratoire de Synthèse Asymétrique, associé au CNRS, CPE Lyon, Université Claude Bernard Lyon 1, 43, boulevard du 11 novembre 1918, F-69622 Villeurbanne, France

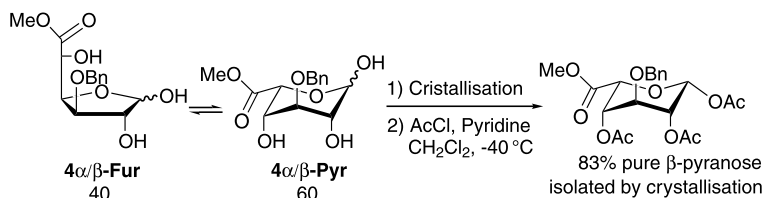
1,3-Dipolar cycloaddition of nitron to sugar enones **3** provided bicyclic compounds **4**. Hydrogenation of **4** followed by acetylation yielded amino sugars **8**.



### Efficient selective preparation of methyl-1,2,4-tri-O-acetyl-3-O-benzyl-β-L-idopyranuronate from methyl 3-O-benzyl-L-iduronate

Anna Dilhas, David Bonnaffé

Laboratoire de Chimie Organique Multifonctionnelle, UMR 8614 'Molecular Glycochemistry', Bat. 420 Université Paris Sud, F-91405 Orsay, France



### Carbohydrate esterase family 4 enzymes: substrate specificity

Frederic Caufrier,<sup>a,b</sup> Aggeliki Martinou,<sup>a</sup> Claude Dupont,<sup>d</sup> Vassilis Bouriotis<sup>a,c</sup>

<sup>a</sup>Enzyme Biotechnology Division, Institute of Molecular Biology and Biotechnology, P.O. Box 1527, Vassilika Vouton 711 10, Heraklion, Crete, Greece

<sup>b</sup>Vakgroup Microbiologie, Vrije Universiteit Brussel, Emile Gryzonlaan 1, B-1070 Brussel, Belgium

<sup>c</sup>Department of Biology, Division of Applied Biology and Biotechnology, University of Crete, P.O. Box 2208, Vassilika Vouton, 714 09, Heraklion, Crete, Greece

<sup>d</sup>Centre de Microbiologie et Biotechnologie, INRS-Institut Armand-Frappier, Laval, QC, Canada H7V 1B7

The substrate specificity of selected enzymes classified under Carbohydrate Esterase family 4 (CE4) has been examined.