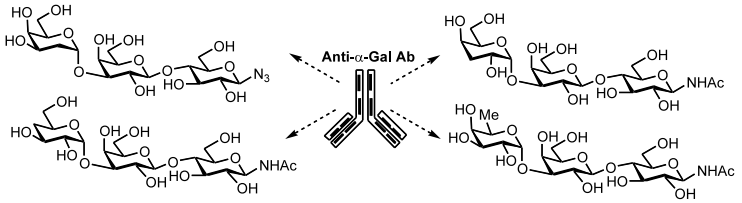
Graphical Abstracts

The synthesis of deoxy-α-Gal epitope derivatives for the evaluation of an anti-α-Gal antibody binding

Carbohydr. Res. **2002,** *337*, 1247

Adam J. Janczuk, Wei Zhang, Peter R. Andreana, Joshua Warrick, Peng G. Wang

Department Of Chemistry, Wayne State University, Detroit, MI 48202, USA



The solvent-free thermal dehydration of hexitols on zeolites

Carbohydr. Res. **2002,** *337*, 1261

Maria Kurszewska,[a] Eugenia Skorupowa,[a] Janusz Madaj,[a] Antoni Konitz,[b] Wiesław Wojnowski,[b] Andrzej Wiśniewski[a]

[a]*Department of Chemistry, University of Gdańsk, Sobieskiego 18, PL-80-952 Gdańsk, Sobieskiego 18, Poland*
[b]*Department of Inorganic Chemistry, Technical University of Gdańsk, PL-80-952 Gdańsk, Narutowicza 11/12, Poland*

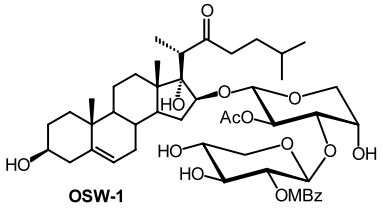
Dehydration of galactitol, D-glucitol and D-mannitol at high temperature in the presence of molecular sieves without solvent under an argon atmosphere is described.

Synthesis of a cholestane glycoside OSW-1 with potent cytostatic activity

Carbohydr. Res. **2002,** *337*, 1269

Jacek W. Morzycki, Agnieszka Wojtkielewicz

Institute of Chemistry, University of Bialystok, al. Pilsudskiego 11/4, 15-443 Bialystok, Poland

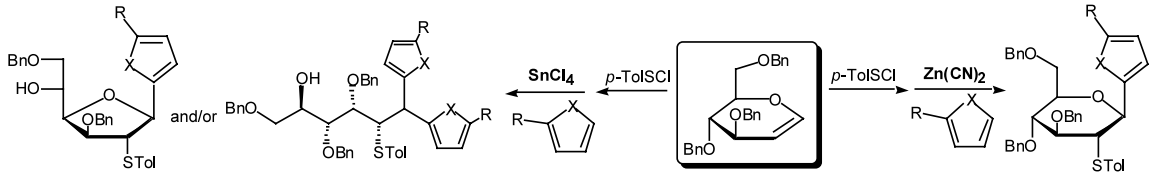


One-pot synthesis of *C*-glycosylic compounds (*C*-glycosides) from D-glucal, *p*-tolylsulfenyl chloride and aromatic/heteroaromatic compounds in the presence of Lewis acids

Carbohydr. Res. **2002,** *337*, 1275

Leonid N. Koikov, Irina P. Smoliakova, Hui Liu

Chemistry Department, University of North Dakota, Grand Forks, ND 58202-9024, USA



The structure of the carbohydrate backbone of the LPS from *Shewanella putrefaciens* CN32

Carbohydr. Res. **2002,** *337*, 1285

Evgeny Vinogradov,[a] Anton Korenevsky,[b] Terry J. Beveridge[b]

[a]*Institute for Biological Sciences, National Research Council, 100 Sussex Drive, Ottawa Ont., K1A 0R6, Canada*
[b]*Department of Microbiology, College of Biological Science, University of Guelph, Guelph Ont., N1G 2W1, Canada*

β-Gal*f*-(1→3)-β-Gal-(1→4)-β-Glc-(1→4)-α-DDHep2*P*EtN-(1→5)-α-Kdo4*P*-(2→6)-β-GlcN4*P*-(1→6)-α-GlcN1*P*

Effects of cellulase on the modification of cellulose

Carbohydr. Res. **2002,** *337*, 1291

Yu Cao, Huimin Tan

School of Chemical Engineering and Materials Science, Beijing Institute of Technology, 5 South Zhongguangcun Street, Beijing 100081, PR China

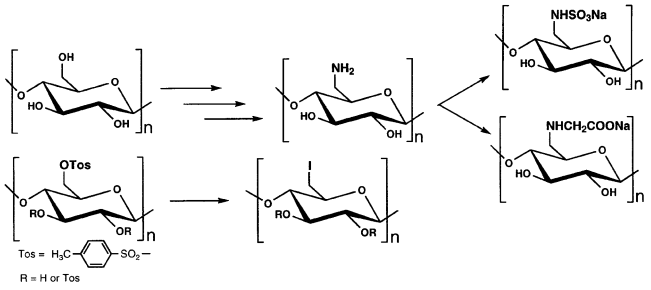
Three enzymes—multicomponent cellulases, purified endoglucanases, and cellobiohydrolases—were allowed to modify the cellulosic material, and their effects on changes in $\overline{DP}$, solubility in aqueous alkali solution, and the variety of the crystalline and hydrogen bonds as analyzed by X-ray and FTIR were determined.

Exclusive and complete introduction of amino groups and their *N*-sulfo and *N*-carboxymethyl groups into the 6-position of cellulose without the use of protecting groups

Carbohydr. Res. **2002,** *337*, 1297

Chun Liu, Hanno Baumann

ITMC, Macromolecular Chemistry and Textile Chemistry, Hemocompatible and Biocompatible Biomaterials, University of Technology Aachen, Worringer Weg 1, D-52074 Aachen, Germany

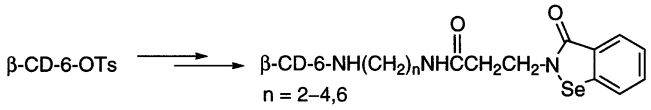


Synthesis of novel cyclomaltoheptaose (β-cyclodextrin) derivatives containing the Ebselen key moiety of benzoisoselenazolone

Carbohydr. Res. **2002,** *337*, 1309

Xiangliang Yang, Qin Wang, Huibi Xu

Department of Chemistry, Huazhong University of Science and Technology, Wuhan 430074, Hubei, PR China

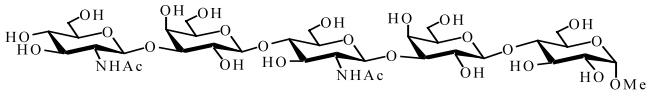


Concise synthesis of a buffalo milk pentasaccharide derivative

Carbohydr. Res. **2002,** *337*, 1313

Guofeng Gu,[a] Yuguo Du,[a] Jingqi Pan[b]

[a]*Research Center for Eco-Environmental Sciences, Academia Sinica, PO Box 2871, Beijing 100085, PR China*
[b]*College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, PR China*

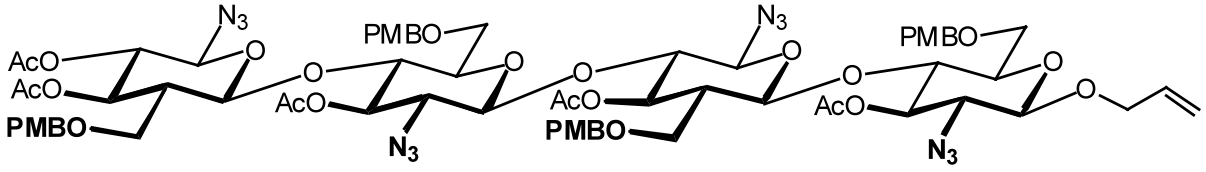


Preparation of orthogonally protected chitosan oligosaccharides: observation of an anomalous remote substituent effect

Carbohydr. Res. **2002,** *337*, 1319

Siong-Tern Liew, Alexander Wei

Department of Chemistry, Purdue University, 1393 Brown Building, West Lafayette, IN 47907-1393, USA



A neutral β-D-glucan from dates of the date palm, *Phoenix dactylifera* L.

Carbohydr. Res. **2002,** *337*, 1325

Omar Ishurd,[a] Cuirong Sun,[a] Peng Xiao,[a] Ahmed Ashour,[b] Yuanjiang Pan[a]

[a]*Department of Chemistry, Zhejiang University, Hangzhou, 310027, PR China*
[b]*Department of Food Science, Alftateh University, College of Agriculture, Tripoli, 12358, Libya*

A D-glucan was isolated from the fruit of dates. NMR and methylation studies indicate that the D-glucan is β-glycosidically linked, that it is linear, and contains both (1→3)- and (1→4)-linkages.