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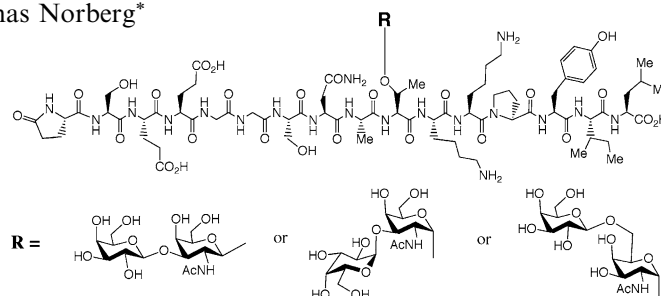
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FULL PAPERS

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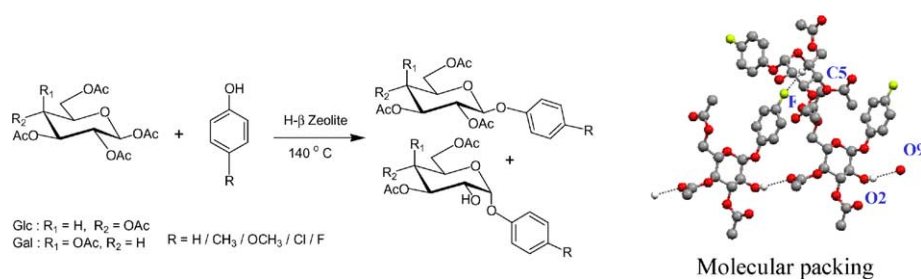
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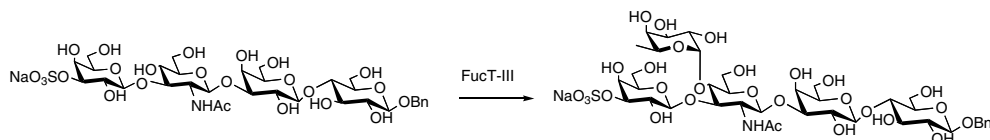
Udayanath Aich and Duraikkannu Loganathan*



Chemoenzymatic synthesis of the 3-sulfated Lewis^a pentasaccharide

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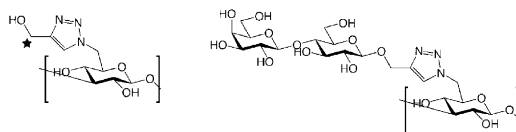
Annie Malleron, Yaël Hersant and Christine Le Narvor*



‘Click chemistry’ on polysaccharides: a convenient, general, and monitorable approach to develop (1→3)-β-D-glucans with various functional appendages

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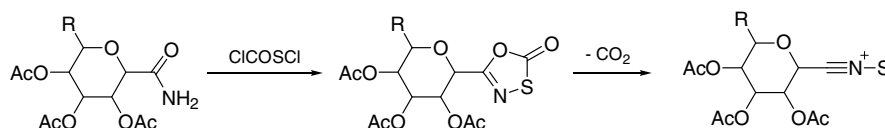
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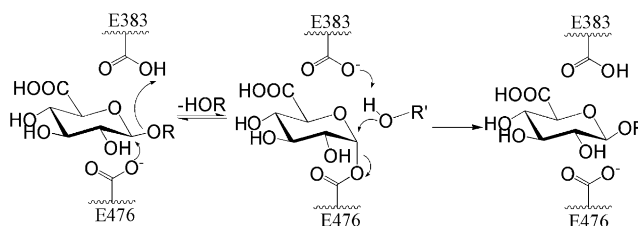
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Cloning and characterization of *Thermotoga maritima* β-glucuronidase

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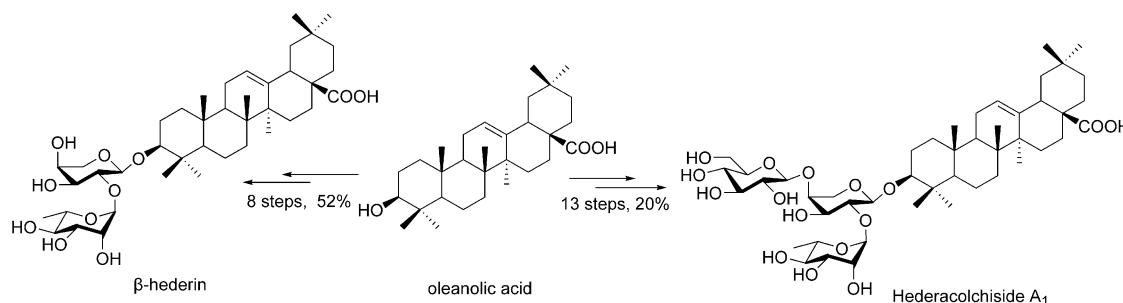
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Synthesis of β-hederin and Hederacolchiside A₁: triterpenoid saponins bearing a unique cytotoxicity-inducing disaccharide moiety

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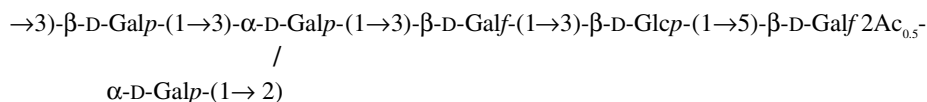
Mao-Sheng Cheng,* Mao-Cai Yan, Yang Liu, Li-Gang Zheng and Jiao Liu



Full assignment of the ^1H and ^{13}C spectra and revision of the O-acetylation site of the capsular polysaccharide of *Streptococcus pneumoniae* Type 33F, a component of the current pneumococcal polysaccharide vaccine

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Xavier Lemercinier and Christopher Jones*

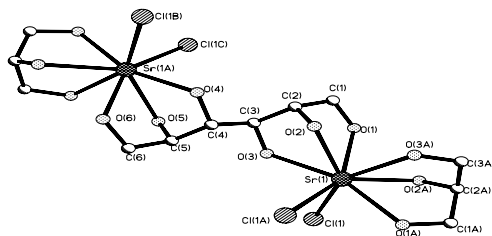


Full NMR assignments and a revised location for the O-acetyl group in the capsular polysaccharide from *Streptococcus pneumoniae* Type 33F are reported. The O-acetyl group is attached to O-2 of the $\rightarrow 5\text{-}\beta\text{-D-Galf}$ residue, rather than the $\rightarrow 3\text{-}\beta\text{-D-Galf}$ as previously reported.

Crystal structures and spectroscopic characterization of galactitol complexes of trivalent lanthanide and divalent alkaline earth chlorides

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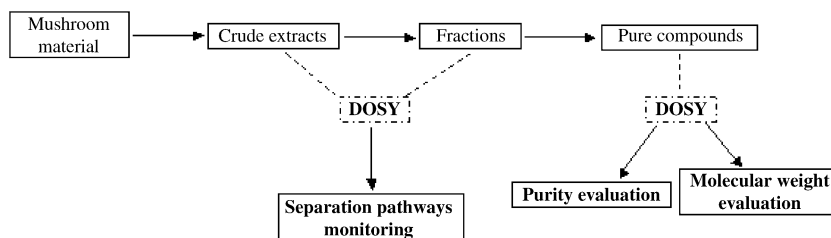
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Useful applications of DOSY experiments for the study of mushroom polysaccharides

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Matteo Politi, Patrick Groves, M. Isabel Chávez, F. Javier Cañada and Jesús Jiménez-Barbero*

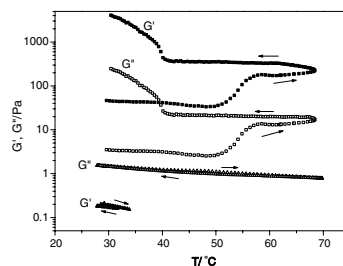


Comparison of curdlan and its carboxymethylated derivative by means of Rheology, DSC, and AFM

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Yang Jin, Hongbin Zhang,* Yimei Yin and Katsuyoshi Nishinari

For the temperature dependence of G' and G'' of carboxymethylated curdlan, the moduli did not increase markedly above 55°C and no gel formation occurred indicating that the intrinsic hydrophobic structure related to the methylene groups at C-6 position for the native curdlan had been influenced by the carboxymethylated modification.

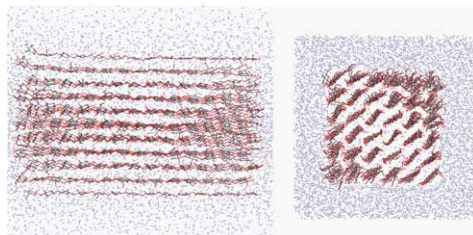


Temperature dependence of G' and G'' for 2% curdlan suspension (■, □) and CMC solution (▲, △) at a constant frequency of 1 Hz

Computer simulation studies of microcrystalline cellulose I β

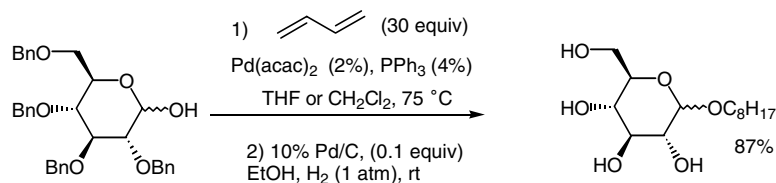
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James F. Matthews, Cathy E. Skopec, Philip E. Mason, Pierfrancesco Zuccato, Robert W. Torget, Junji Sugiyama, Michael E. Himmel* and John W. Brady*

**NOTES****Synthesis of C₈ alkyl glycosides via palladium-catalyzed telomerization of butadiene with O-benzylated aldoses**

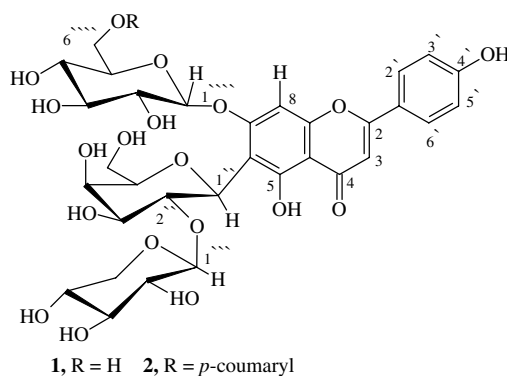
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Alla Bessmertnykh, Françoise Hénin,* Anna Serra-Muns, Jacques Muzart and Henri Baillia

**Flavonoid triglycosides from the seeds of *Syzygium aromaticum***

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Mahmoud I. Nassar

**Structures of two putative O-specific polysaccharides from the *Rahnella aquatilis* 3-95 lipopolysaccharide** pp 164–168

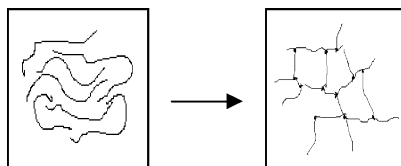
Evelina L. Zdorovenko,* Lyudmyla D. Varbanets, George V. Zatonsky and Andrey N. Ostapchuk



Crosslinked chitosan—preparation and characterization

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Keelara V. Harish Prashanth and Rudrapatnam N. Tharanathan*



Chitosan undergoes radical-induced depolymerization in the presence of potassium persulfate at 60°C, leading to extensive crosslinking of the fragmented chains upon subsequent cooling at 4°C.

*Corresponding author

i* Supplementary data available via ScienceDirect

COVER

Image represents a key process of malaria parasites multiplying in, and rupturing from the human blood cell. The parasite surface is coated with glycosylphosphatidylinositols (GPIs), which have been identified as the malaria toxin by a collaborative effort between the research groups headed by Peter Seeberger (Swiss Federal Institute of Technology (ETH) Zürich, Switzerland) and Louis Schofield (Walter and Eliza Hall Institute of Medical Research, Australia). The space filling model represents the native GPI molecule from malaria parasite that has been chemically synthesized by the Seeberger group. Professor Peter Seeberger was presented with the Carbohydrate Research Award at the 13th European Carbohydrate Symposium (Bratislava, 2005).

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