

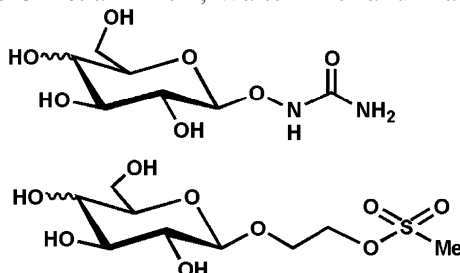
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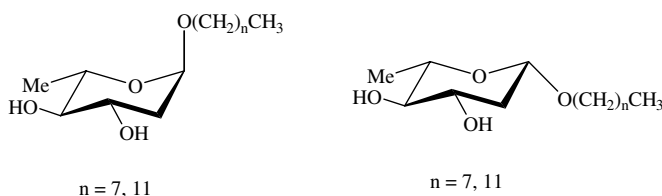
Bernd L. Sorg, William E. Hull, Hans-Christian Kliem, Walter Mier and Manfred Wiessler*



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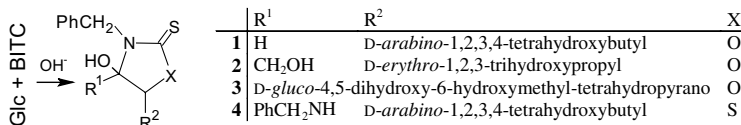
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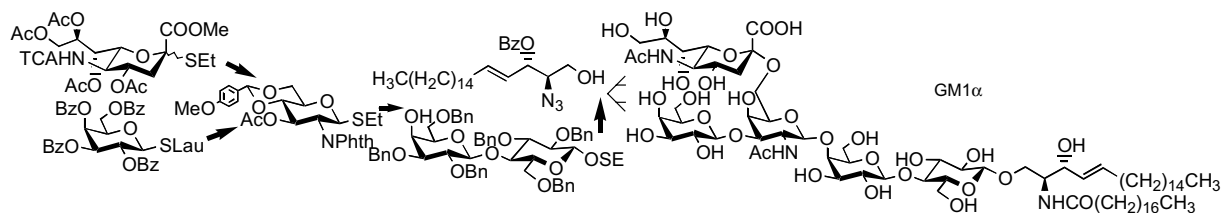
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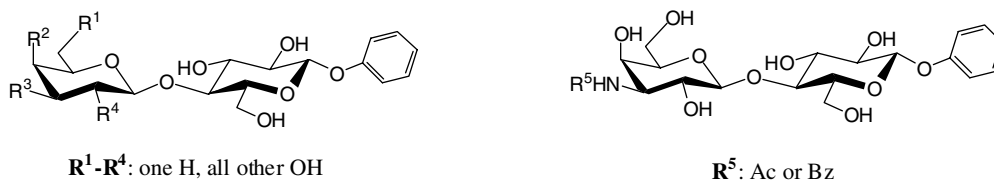
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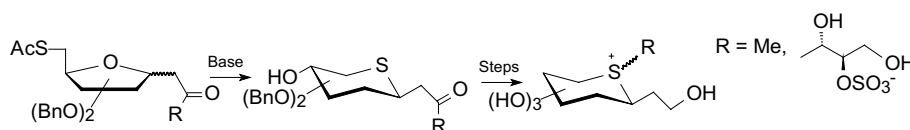
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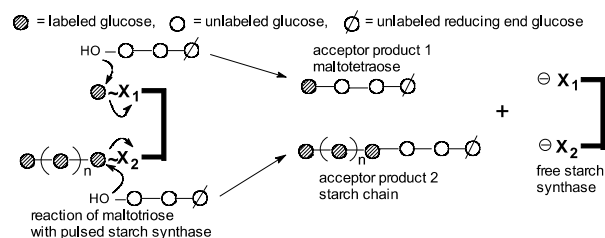


Starch biosynthesis: the primer nonreducing-end mechanism versus the nonprimer reducing-end two-site insertion mechanism

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Rupendra Mukerjea and John F. Robyt*

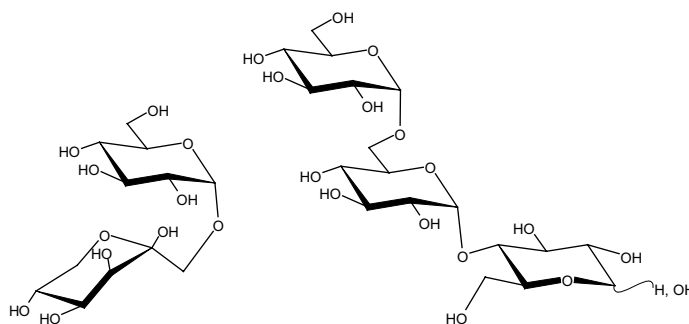
In the biosynthesis of starch it is shown that maltodextrins act as acceptors rather than as primers and inhibit the synthesis of starch by releasing D-glucose and the growing starch chain from the active site of starch, as shown for the reaction of maltotriose with ADP-[14 C]Glc pulsed starch synthase.



Alternansucrase acceptor reactions with D-tagatose and L-glucose

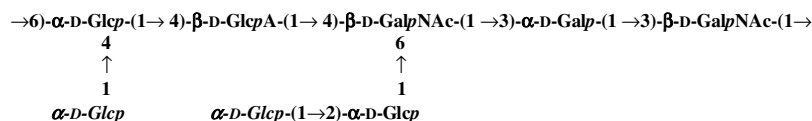
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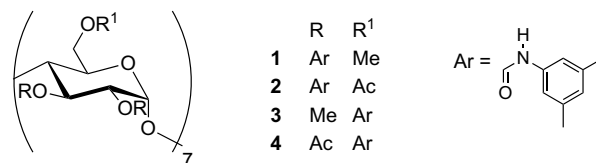
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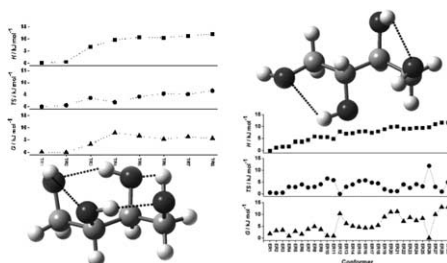
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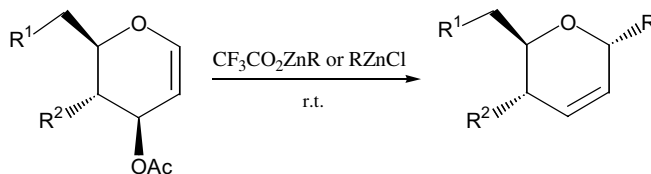
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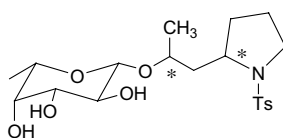
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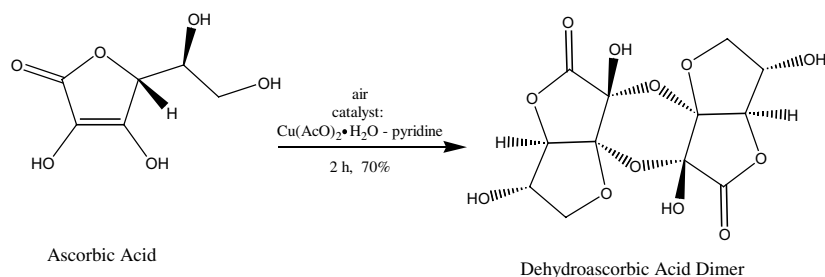
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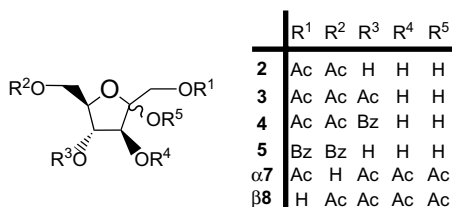
Eleftheria K. Koliou and Panayiotis V. Ioannou*



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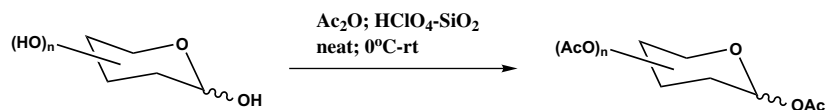
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Esterifications and alcoholysis catalysed by lipases in organic solvent allowed to prepare the products **2–5**, **α-7** and **β-8**.**HClO₄–SiO₂ catalyzed per-O-acetylation of carbohydrates**

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Anup Kumar Misra,* Pallavi Tiwari and Soni Kamlesh Madhusudan



*Corresponding author

i⁺ 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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