

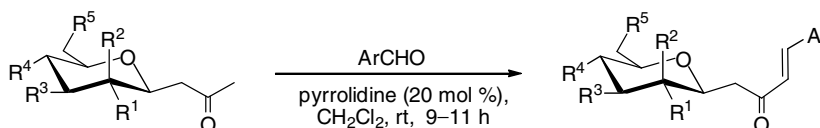
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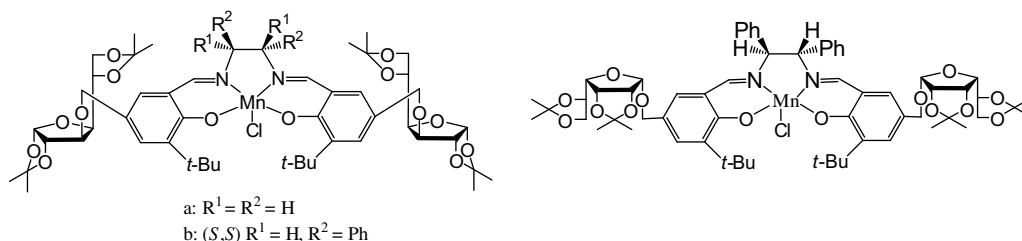
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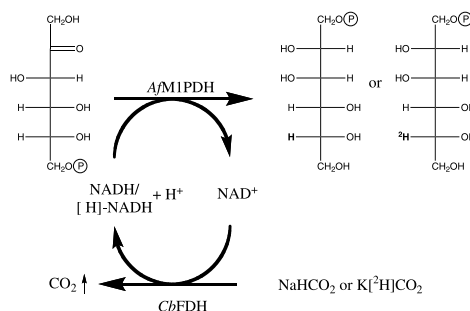
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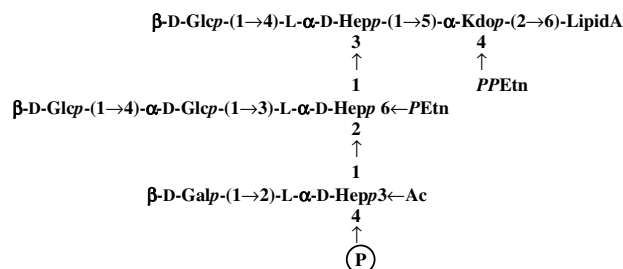
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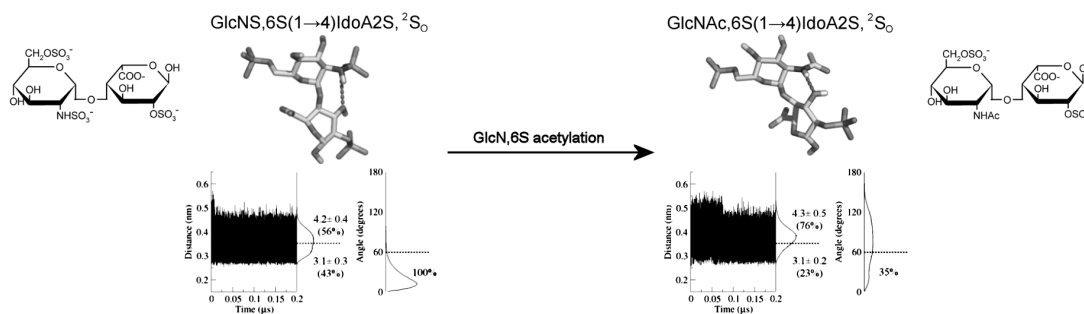
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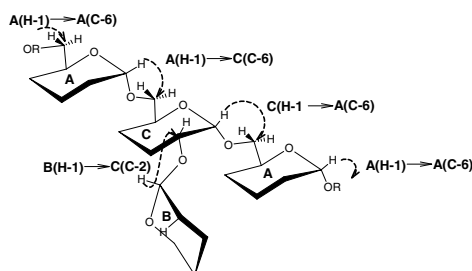
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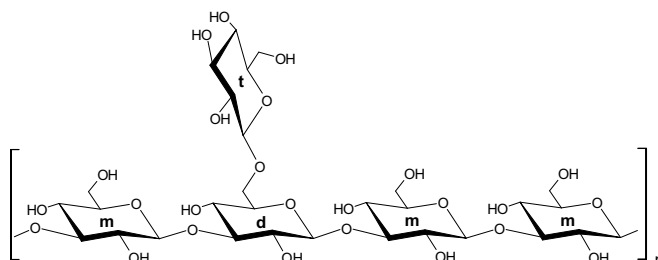
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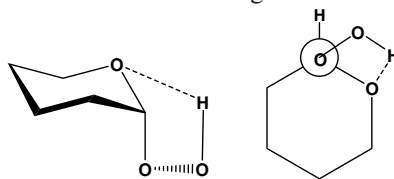
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DFT calculations of the anomeric and exo-anomeric effect of the hydroperoxy and peroxy groups

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Wioletta Kośnik, Wojciech Bocian, Marek Chmielewski and Igor Tvaroška*

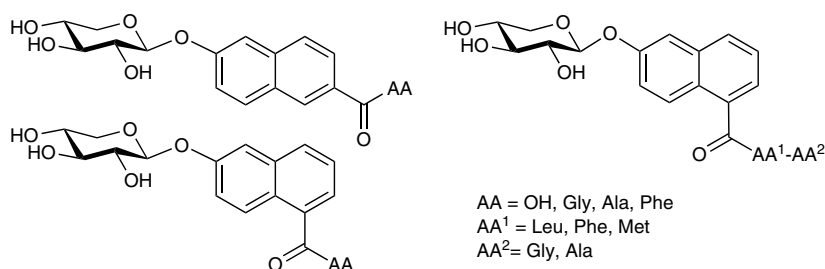


DFT calculations were carried out on axially and equatorially oriented 2-hydroperoxy and 2-peroxy tetrahydropyran, cyclohexyl hydroperoxide, hydroperoxides of 2,3-unsaturated hexapyranoses, and hydroperoxides of *OMe* and *OBn* substituted derivatives of 2-deoxy-glucopyranose and 2-deoxy-galactopyranose to investigate the anomeric and exo-anomeric effects of these groups. Calculations showed that the peroxy anion group exhibits a strong anomeric effect, comparable in magnitude to the methoxy group, and that the anomeric effect of the hydroperoxy group is similar to the hydroxyl group.

NOTES**Xylosylated naphthoic acid–amino acid conjugates for investigation of glycosaminoglycan priming**

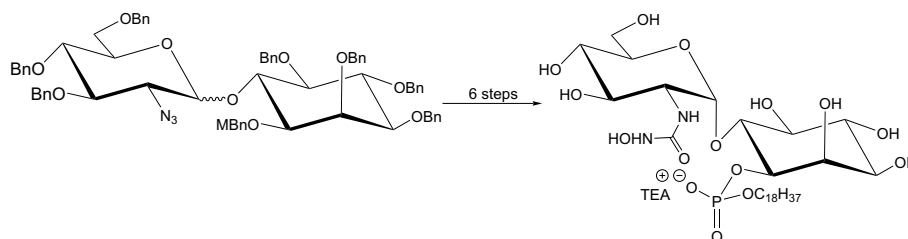
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Carl-Olof Abrahamsson, Ulf Ellervik,* Johan Eriksson-Bajtner, Mårten Jacobsson and Katrin Mani*

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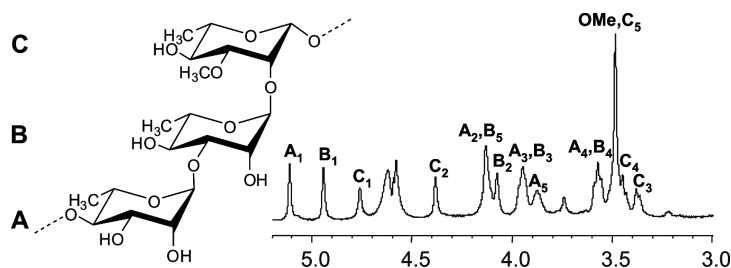
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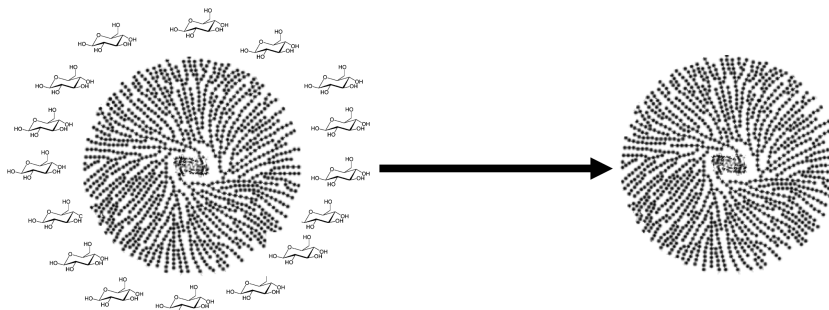
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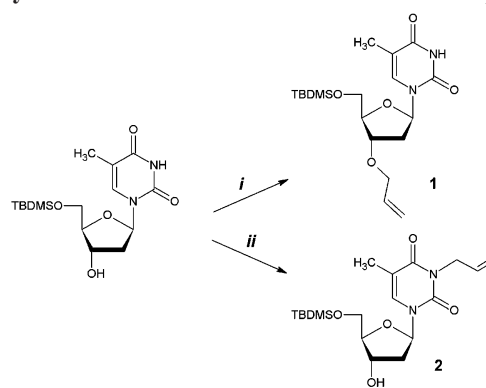
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**Solvent-controlled regioselective protection of 5'-O-protected thymidine**

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K. Teste, L. Colombeau, A. Hadj-Bouazza, R. Lucas,
R. Zerrouki,* P. Krausz and Y. Champavier

*Corresponding author

Supplementary data available via ScienceDirect

COVER

The graphic represents a molecular dynamics simulation of water density around the disaccharide α -D-Araf-(1 $\rightarrow$ 5)- α -D-Araf-OCH₃, highlighting the interglycosidic linkage. The red clouds represent regions where the probability of finding an oxygen atom is high while the gray clouds are for hydrogen atoms. This work is the result of a collaboration in the Alberta Ingenuity Centre for Carbohydrate Science and Department of Chemistry at the University of Alberta between the groups of Pierre-Nicolas Roy and Todd L. Lowary (Castillo, N.; Roy, P. N.; Lowary, T. L. Manuscript in Preparation).
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Abstracted/Indexed in: Chem. Abstr.: Curr. Contents: Phys., Chem. & Earth Sci. Life Sci. Current Awareness in Bio. Sci. (CABS). Science Citation Index. Full texts are incorporated in CJELSEVIER, a file in the Chemical Journals Online database which is available on STN[®] International. Also covered in the abstract and citation database SCOPUS[®]. Full text available on ScienceDirect[®]



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ISSN 0008-6215