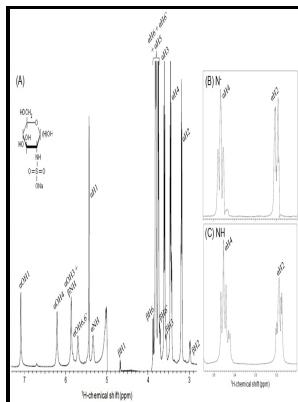


# NMR spectroscopy of glycoconjugates

**Wiley-VCH - Improving Analytical Characterization of Glycoconjugate Vaccines through Combined High**



Description: -

- Nuclear magnetic resonance spectroscopy.

Glycoconjugates -- Structure.

Glycoconjugates -- Analysis.NMR spectroscopy of glycoconjugates

-NMR spectroscopy of glycoconjugates

Notes: Includes bibliographical references and index.

This edition was published in 2003



Filesize: 21.101 MB

Tags: #GENERAL #PRINCIPLE #OF #USING #STRUCTURAL #ANALYSIS #OF #GLYCOCONJUGATES #BY #USING #GLYCOSIDASES #AND #13C #NMR #SPECTROSCOPY

## GENERAL PRINCIPLE OF USING STRUCTURAL ANALYSIS OF GLYCOCONJUGATES BY USING GLYCOSIDASES AND 13C NMR SPECTROSCOPY

About this book This volume focuses on solution and solid-state NMR of carbohydrates, glycoproteins, glyco-technologies, biomass and related topics. In 2000 he moved to Nagoya City University as full Professor and, since 2006, he has also been a Visiting Professor at the Glycoscience Institute, Ochanomizu University.

## STRUCTURAL ANALYSIS OF GLYCOCONJUGATES BY MASS SPECTROMETRY OF PERMETHYLATED DERIVATIVES AND BY 13C NMR SPECTROSCOPY

Parameters, Techniques and Experiments -- 1.

### Improving Analytical Characterization of Glycoconjugate Vaccines through Combined High

These building blocks were used for automated SPOT synthesis on a cellulose surface in order to construct complex glycoconjugates which are able to specifically bind to lectins.

**NMR Spectroscopy of Glycoconjugates : Jiménez Barbero, Jesú's, Peters, Thomas: quizapp.evertonfc.com.au: Books**

The license is subject to the Beilstein Journal of Organic Chemistry terms and conditions:. Our stable-isotope-assisted NMR analyses of immunoglobulin G-Fc glycoproteins and the glycopeptides derived therefrom are here presented in terms of the dynamics and interactions of glycoconjugates. Nuclear magnetic resonance NMR spectroscopy provides powerful tools for studying structures, dynamics, and interactions of biomolecules at the atomic level.

**Dynamics and Interactions of Glycoconjugates Probed by Stable**

Markus Kramer and the members of the NMR-division of the Institute of Organic Chemistry for recording the NMR spectra and Petra Krüger for performing the elemental analyses. Unique advantages offered by nuclear magnetic resonance NMR spectroscopy provide high-resolution information not only on structures but also on dynamics and interactions of glycoconjugates in solution. Therefore, investigating the delicate carbohydrate—protein interactions on a molecular level is an inalienable prerequisite for a deep understanding of the fundamental cellular recognition processes involving the complex saccharides of the glycocalyx.

## BJOC

Just as the image of a 2D spectrum allows an insight into the spatial structure of a molecule, the chronological examination of an NMR experiment enables the description of the molecular dynamics. Since 1994 he has held a position as Full Professor at the University of Luebeck. However, improved product characterization can lead to enhancements in product control and product quality.

## BJOC

His research interests include structural analyses of glycoconjugates by NMR spectroscopy and other biophysical and biochemical methods. Such byproducts were not observed here though. In this study, we lay the groundwork for the analysis of conjugate vaccines.

**NMR Spectroscopy of Glycoconjugates : Jiménez Barbero, Jesú's, Peters, Thomas: quizapp.evertonfc.com.au: Books**

NMR studies on glycans will have significant impact on the development of vaccines, adjuvants, therapeutics, biomarkers and on biomass regeneration. We use the power of this strategy to characterize model polysaccharide conjugates and to demonstrate a detailed level of glycoproteomic analysis. The carbohydrate portion of mammalian glycosphingolipids varies in the number of glucose residues, their composition, and the sequence, linkages and anomeric configuration between the sugars.

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