

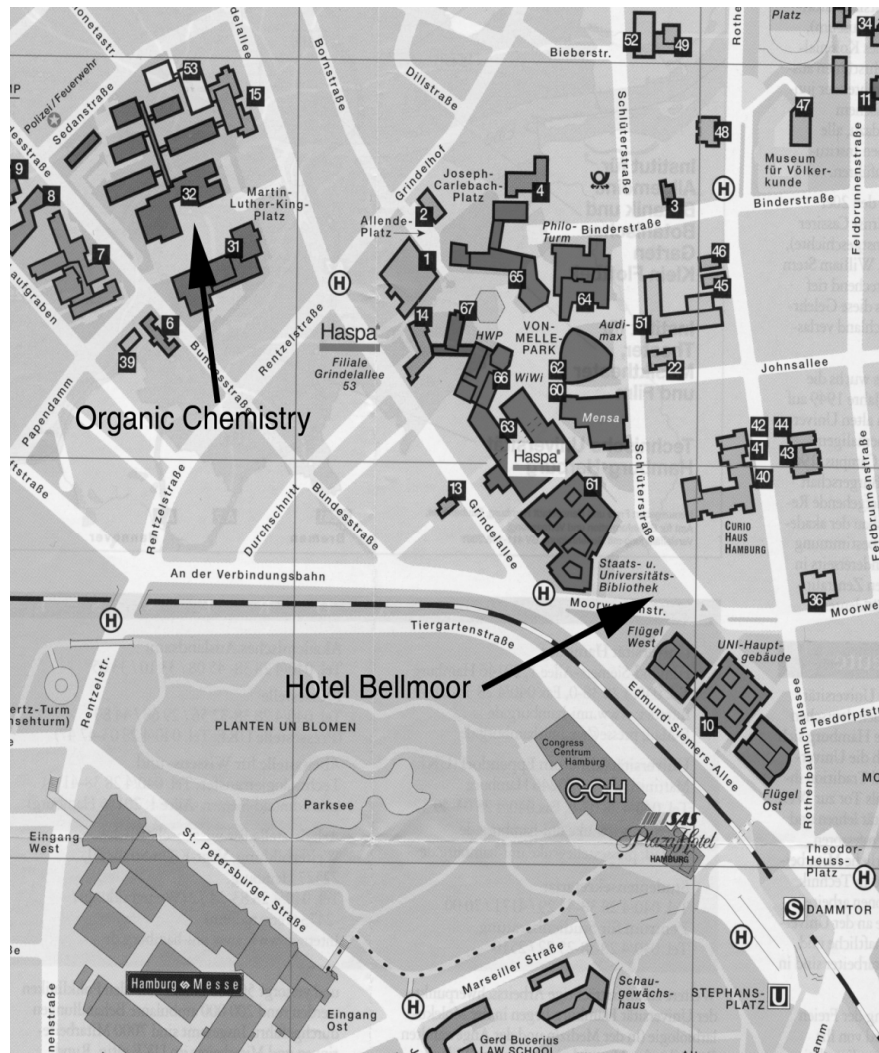


Glycostructures in Biological Systems XIII

Symposium of the Resource Center 470
Glycostructures in Biological Systems - Synthesis and Function

University of Hamburg
December 1 - 3, 2004

Invitation & Program



Wednesday, December 1

14.00	Joachim Thiem Dean, Dept. of Chemistry	<i>Opening</i>
14.15	Bernard Henrissat <i>Marseille, France</i>	The Carbohydrate-Active Enzymes Database
14.55	Terri Camesano <i>Worcester, USA</i>	Probing the Properties of Microbial Polysaccharides with Atomic Force Microscopy and Single-Molecule Force Spectroscopy
15.35		Coffee & Poster Session
16.05	Thisbe Lindhorst <i>Kiel, Germany</i>	Mannose-Specific Bacterial Adhesion: Sugar Binding to FimH
16.45	Piet Herdewijn <i>Leuven, Belgium</i>	Properties of Nucleic Acids with a Six-Membered 'Carbohydrate Mimic' in the Backbone Structure
17.25	John Gunn <i>Columbus, USA</i>	Regulated Modification of Bacterial LPS
18.05		End of Session

Thursday, December 2

9.00	Philippe Gallay <i>La Jolla, USA</i>	Interplay Between HIV and Host Sulfations
9.40	Jeff Kaplan <i>Newark, USA</i>	A Novel Glycosyl Hydrolase that Degrades Biofilm Matrix Polysaccharides
10.20		Coffee & Poster Session
11.10	Armin Geyer <i>Marburg, Germany</i>	Sugar Helices with a Cap: NMR Analysis of a Homologous Series of Oligosaccharides from Cyanobacteria
11.50	Minoru Fukuda <i>La Jolla, USA</i>	Functional Diversity of Mammalian Glycans
12.30		Lunch Break
14.30	Thomas Peters <i>Lübeck, Germany</i>	NMR Studies on Retaining and Inverting Galactosyltransferases - Mechanistic Implications
15.10	Chris Whitfield <i>Guelph, Canada</i>	Biosynthesis of the Core Oligosaccharide Region of Lipopolysaccharides in the Enterobacteriaceae
15.50		Coffee & Poster Session
16.20	Feng Ni <i>Montreal, Canada</i>	Quantitative NMR Relaxation Dispersion Experiments in the Design of Polypeptide Therapeutics
17.00	Koichi Honke <i>Osaka, Japan</i>	Biological Functions of Sulfoglycolipids
17.40		End of Session

Friday, December 3

9.00	Johannes Hübner <i>Boston, USA</i>	Role of Capsular Polysaccharides and Biofilm in the Pathogenesis of Enterococcal Infections
9.40	Biao Yu <i>Shanghai, China</i>	Plant Saponins: Synthesis and Antitumor Activities
10.20		Coffee & Poster Session
11.10	Andrej Hasilik <i>Marburg, Germany</i>	Lessons from Lysosomal Glycostructures, their Functions and Processing
11.50	Michael Schreiber <i>Hamburg, Germany</i>	The Role of N-Glycans in HIV-1 Infection
12.30		Lunch Break
14.30	Masakatsu Hato <i>Tsukuba, Japan</i>	Synthetic Glycolipid/Water Systems. - Physicochemical and Biochemical Features -
15.10	Corinna Herrmann <i>Konstanz, Germany</i>	Activation of the Innate Immune System by Bacterial Glycolipids
15.50		Coffee & Poster Session
16.10	Monica Palcic <i>Edmonton, Canada</i>	Structure-Function Studies on Mutant ABO Glycosyltransferases
16.50		End of Symposium

The Sonderforschungsbereich 470, a collaborative research grant, was awarded by the Deutsche Forschungsgemeinschaft (DFG) to fund research focused on molecules containing carbohydrate structures related to biological systems. The proposal was initiated to stimulate interdisciplinary research between biophysicists, chemists, biologists, biochemists, and physicians. Many of the projects are built around long existing collaborations. The collaborative research is comprised of three major sections:

- Section A: Preparation of structures containing carbohydrates
- Section B: Structure elucidation of carbohydrate containing molecules
- Section C: Function of carbohydrate containing molecules.

The individual research groups with a total of seventeen research projects are located at the University of Hamburg in the Chemistry Department, in the Biology Department, and at the Medical School, at the Bernhard-Nocht-Institute for Tropical Medicine in Hamburg, at the Research Center at Borstel, at the University of Kiel, and at the University of Lübeck.

INFORMATION / REGISTRATION

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CONFERENCE VENUE:

University of Hamburg, Department of Chemistry, Library North Wing, Martin-Luther-King-Platz 6, 20146 Hamburg, Germany

Organizing Committee:

Sabine Gronow - Bernd Meyer - Thomas Peters - Joachim Thiem - Christoph Wagener

Hotels:

Most attendants' hotels will be within walking distance to the conference venue. For those who are staying further away public transport is facile and recommended.

Public Transport to the Conference Venue:

- **S 11** to **Dammtor** Station, then Metrobus 4 or 5 to 2nd stop (Grindelhof), then 300 m walking distance or
- **U 2** to **Schlump** Station, then 500 m walking distance

Lunch Breaks:

Monday and Tuesday: Individual arrangements; please find numerous small restaurants and lunch places in close proximity to the venue.

Sponsored by the Verein zur Förderung der Glycowissenschaften