

15. Österreichischer Kohlenhydratworkshop

Graz, 15. Februar 2011

Programm

Beginn: 11.30

Ort: Großer Hörsaal des neuen Chemiegebäudes Stremayrgasse 9, Parterre.

Begrüßung durch Dekan Frank Uhlig,

danach Einladung zu einer ca. 30-minütigen Führung durch den Neubau Chemie.

1) Kurzvorträge (ca.15 min)

Session 1: 12:30 – 13:30

A Novel Glycosidase Inhibitor: Synthesis of *N*-(Dansylamino)hexylaminocarbonylpentyl-1,5-dideoxy-1,5-imino-L-iditol.

Grimmer, C.; Stütz, A. E.; Wrodnigg, T. M., Glycogroup, Institut Organische Chemie, TU Graz

A Novel Donor Substrate in Rabbit Muscle Aldolase-Catalyzed Aldol Reactions – Gram Scale Synthesis of 3-Fluoro-1-hydroxyacetone Phosphate

Fischer, M., Kählig, H., Schmid, W. (Inst. Org. Chemie, Univ. Wien)

Synthesis of 4-Amino-4-deoxy-L-arabinose Containing Di- and Trisaccharides of the Inner-Core LPS

Blaukopf, M., Müller, B., Kosma, P. (Dept. Chemie, BOKU)

Synthesis of Lipid A - Derived Antigens Containing Phosphodiester-linked Anomeric Galactosamine

Baum, D., Zamyatina, A. (Dept. Chemie, BOKU)

PAUSE 13:30 – 14:00

Session 2: 14:00 – 15:00

NMR Studies of Xylose Reductase Catalyzed Transformations

Vogl, M.; Kratzer, R.; Nidetzky, B., Brecker, L. (Inst. Org. Chemie, Univ. Wien, Inst. Biotechnologie, TU Graz)

Optimization of Monosaccharide Determination by HPLC

Herwig, S., Staudacher, E. (Dept. Chemie, BOKU)

Analysis of Oligomannosidic N-glycans Right from Their Lipid-linked Cradle

Grass, J., Pabst, M. (Dept. Chemie, BOKU)

Novel High Throughput Screening Methodologies to Advance Directed Evolution of Glycosyltransferases

Bubner, P.; Luley-Goedl, C.; Egger, S.; Nidetzky, B., Institute of Biotechnology and Biochemical Engineering, TU Graz

PAUSE 15:00 – 15:30

Session 2: 15:30 – 16:30

Friend or Foe: Iminosugars as Inhibitors and Pharmacological Chaperones of the Human Lysosomal Acid β -Galactosidase

Fantur, K. M.¹; Hofer, D.¹; Schitter, G.²; Steiner, A. J.¹; Wrodnigg, T. M.¹; Stütz, A. E.¹; Paschke, E.²
Department of Pediatrics, Medical University Graz (1) and Glycogroup, Institut Organische Chemie, TU Graz (2).

The Role of Aromatic Interactions in the Catalytic Mechanism of Sucrose Phosphorylase

Wildberger, P.; Luley-Goedl, C.; Nidetzky, B., Institute of Biotechnology and Biochemical Engineering, TU Graz

Deciphering the Mechanism of C-Glycosidic Bond Formation by a Glycosyltransferase from Rice

Gutmann, A.; Nidetzky, B., Institute of Biotechnology and Biochemical Engineering, TU Graz

S-Layer Protein with Chitobiose N-Glycans – A Novel Opportunity for Glycoengineering in Bacteria

Zolghadr, B.¹; Meyer, B.²; Albers, S.-V.²; Schäffer, C.¹. Department of NanoBiotechnology, NanoGlycobiology, BOKU Wien (1) and Max-Planck Institute for Terrestrial Microbiology, Molecular Biology of Archaea, Marburg, Germany (2)

2) Information und Diskussion (16:30 – 17:30)

Aktuelle, das Österr. KH-Netzwerk betreffende Informationen

Moderator: P. Kosma