

Symposium program

Sunday, June 19

- 14:00 – 18:30 Arrival, registration and accommodation of participants
- 17:50 – 18:00 Opening ceremony
Chairman: J. Hirsch (Slovakia)
- 18:00 – 18:45 PL *Vern Reinhold, Hailing Zhang, David Lapham*
Spatial resolution of carbohydrate complexity; IT-MSⁿ
sequencing a focus on carbohydrate structural details
- 19:00 – 22:00 Welcome mixer

Monday, June 20

- Chairman: I. Tvaroška (Slovakia)*
- 9:00 – 9:45 *Igor Tvaroška, Vladimír Farkaš, Mária Vršanská*
Laudation to 70th birthday of RNDr. Peter Biely, DrSc.
- 9:45 – 10:30 PL *Maria Hrmova*
Structural basis of catalysis by hydrolytic enzymes that
modify plant cell walls
- 10:30 – 11:00 Coffee break
Chairman: P. Reilly (USA)
- 11:00 – 11:25 *Hung Lee*
Xylose fermentation
- 11:25 – 11:50 *Maija Tenkanen*
Interplay of accessory enzymes in xylan and mannan
degradation
- 11:50 – 12:15 *Paul Christakopoulos, Evangelos Topakas, Maria
Dimarogona, Maria Moukouli, Anthi Karnaouri*
Glycosyl hydrolases from *Sporotrichum thermophile* with
biotechnological potential

12:30		Lunch
		<i>Chairman: J. Visser (The Netherlands)</i>
14:00 – 14:45	PL	<i>Satoshi Kaneko</i> Structural characterization of substrate specificities of hemicellulases
14:45 – 15:10		<i>Francisco I. Javier Pastor</i> Xylanases for biotechnology of lignocellulose
15:10 – 15:35		<i>Sandra W. A. Hinz, Gonny van Muiswinkel, Sanaz Mokthari, Martine van Gool, Henk Schols</i> Functional analysis of the xylanolytic enzyme spectrum of the fungus <i>Chrysosporium lucknowense</i> C1
15:35 – 16:00		<i>Maria G. Tuohy, Manimaran Ayyachamy, Anthonia O'Donovan, Vijai K. Gupta, Deborah M. Waters, Mary Shier, Jeremy Brebion, Dagmar B. Stengel and Zoe A. Popper</i> Enzymatic deconstruction of plant biopolymers by the thermophilic fungus <i>Talaromyces emersonii</i>
16:00 – 16:30		Coffee break
		<i>Chairman: B. A. Prior (South Africa)</i>
16:30 – 16:55		<i>Barry V. McCleary, Ania Draga and Ruth Ivory</i> Measurement of dietary fibre and dietary fibre components
16:55 – 17:20		<i>Gregory L. Côté</i> Applied research on glucansucrases
17:20 – 17:45		<i>Satoshi Makishima, Nobuaki Sato, Yohei Takano, Yoshihiko Amano</i> Efficient recovery of β -linked sugar from soft-biomass cell wall with hydrothermal and enzyme hybrid reaction
17:45 – 18:10		<i>Lubica Urbániková, Mária Vršanská, Kristian Bertel Rømer Mørkeberg Krogh, Tine Hoff and Peter Biely</i> Structural basis for substrate recognition by GH30 glucuronoxylanases
19:00		Dinner

Tuesday, June 21

Chairman: B.V. McCleary (Ireland)

- 8:45 – 9:10 *Christopher D. Warner, Clark Ford and Peter J. Reilly*
Xyloglucanase/endoglucanase
- 9:10 – 9:35 *Gustav Styger, Bernard A. Prior and Florian F. Bauer*
Identification of genes that impact on aroma profiles produced
by *Saccharomyces cerevisiae* from saccharides
- 9:35 – 10:00 *Paul Dupree*
Synthesis and structure of xylan and arabinogalactan
- 10:00 – 10:25 *Don A. Cowan*
Metagenomic gene discovery: Widening the search for the
novel enzymes
- 10:25 – 10:45 Coffee break
- 10:45 – 11:10 *Michaela Wimmerová, Josef Houser, Jan Komárek, Gianluca
Cioci and Anne Imberty*
Host cell recognition by carbohydrate-binding proteins from
human pathogens
- 11:10 – 11:15 Closing the session dedicated to Dr. Peter Biely
- 11:30 Lunch
- 12:30 Excursion to Bratislava with a dinner in Limbach

Wednesday, June 22

Chairwoman: J. Moravcová (Czech Republik)

- 9:00 – 9:45 PL *Ole Hindsgaul*
Carbohydrate chemistry yields new tools for glycobiology
- 9:45 – 10:10 *Vincent Ferrières, Caroline Nugier-Chauvin, Richard
Daniellou, Laurent Legentil*
UDP-furanoses: Synthesis and their impact on mycobacteria
and *Leishmania sp.*

- 10:10 – 10:35 *Steen U. Hansen*
New approaches to heparin like oligosaccharides – synthesis and studies of biological and physical properties
- 10:35 – 11:00 Coffee break
- Chairman: L. Somsák (Hungary)*
- 11:00 – 11:45 PL *Monica M. Palcic*
Structure – function studies on glycosyltransferases
- 11:45 – 12:10 *Carme Rovira, Albert Ardèvol, Xevi Biarnés, Antoni Planas*
Substrate conformational itineraries in glycoside hydrolase catalysis. Insight from QM/MM metadynamics
- 12:10 – 12:30 *Juraj Kóňa, Martina Maličká, Igor Tvaroška*
Computational modeling on reactivity of the glycosidic bond in galactosyl diphosphates
- 12:30 – 14:00 Lunch
- Chairman: M. Chmielewski (Poland)*
- 14:00 – 14:25 *Caroline Nugier-Chauvin, Ilona Chlubnová, Richard Daniellou, Dominik Filipp, Blanka Králová, Vincent Ferrières*
Chemo – enzymatic synthesis of bioactive furanosyl containing glycoconjugates
- 14:25 – 14:50 *Masahiro Mizuno, Shuji Kachi, Nobuaki Sato, Kouichi Nozaki, Yoshihiko Amano*
Enzymatic degradation of regenerated cellulose and biomass treated with ionic liquid
- 14:50 – 15:10 *Andriy Synytsya, Miroslav Novák, Gordon K. Gomba, Jana Čopíková*
Medicinally important mushroom polysaccharides: Isolation and structural characterization
- 15:10 – 15:30 *Yana A. Kisarova, Tatiana A. Korolenko*
MMPS as a possible target for immunomodulating effect of β -(1,3)-glucan in tumors

15:30 – 15:50	<i>Jitka Moravcová, Irekhjargal Jambal, Karel Kefurt, Katrin Guenther</i> Synthesis of deoxyfluorogalactosyl phosphonates: Dream and reality
15:50 – 16:10	<i>Ladislav Petruš, Michal Vojtech, Mária Petrušová, Vladimír Pätoprstý, Hana Smrtičová, Božena Pribulová, Erika Lattová, Helène Perreault, Ivan Valent</i> The impact of stereochemistry on the competitive five – vs. six-membered ring closure reactions
16:10 – 16:30	Coffee break
16:30 – 18:00	Poster session
19:00	Barbecue dinner

Thursday, June 23

Chairman: O. Hindsgaul (Denmark)

9:00 – 9:45	PL	<i>Marek Chmielewski</i> Synthesis of iminosugars from unsaturated lactones and nitrones
9:45 – 10:15		Coffee break
		<i>Chairman:</i> J. Hirsch (Slovakia)
10:15 – 11:00	PL	<i>László Somsák</i> Glucose – derived inhibitors of glycogen phosphorylase go nanomolar
11:00 – 11:15		Closing ceremony
11:30		Lunch
12:30		Departure to Bratislava