

ALAMY_4 PROGRAMME

SUNDAY – 26 September 2010

- 15:00 Registration Desk Open
Mounting of Posters
- 15:30 – 17:00 Conference buses from Bratislava and Vienna arrive at Smolenice Castle
- 18:45 – 19:00 **Opening words - Štefan Janeček**
- 19:00 – 20:00 **ALAMY_4 Keynote Lecture - IL01**
Kwan Hwa Park (Incheon, Korea): Functional characterization of carbohydrate-active enzymes in bacteria: what is known and unknown in the bacterial sugar utilization system.
- 20:00 – 22:00 **Opening Reception**

MONDAY – 27 September 2010

- 07:30 – 08:30 *Breakfast*
- 08:55 Announcements
- 09:00 – 12:15 **Clan GH-H – Structure-function relationships**
- 09:00 – 09:45 Invited Lecture - IL02
Birte Svensson (Kgs. Lyngby, Denmark): Barley limit dextrinase and limit dextrinase inhibitor.
- 09:45 – 10:30 Invited Lecture - IL03
Pierre Monsan (Toulouse, France): Design of regioselective glucosyltransferases from amylosucrase scaffold for the chimio-enzymatic synthesis of antigenic oligosaccharides.
- 10:30 – 11:00 *Coffee/Tea Break and Posters*
- 11:00 – 11:25 Oral Communication - OC01
Natarayan Ramasubbu (Newark, NJ, USA): Enamel binding domains of human salivary α -amylase: implications in dental plaque formation.
- 11:25 – 11:50 Oral Communication - OC02
Slavko Kralj (Haren, The Netherlands): GTFB provides an evolutionary link between enzyme families GH13 and GH70.
- 11:50 – 12:15 Oral Communication - OC03
Johannis P. Kamerling (Haren, The Netherlands): Unique oligosaccharides synthesized by a novel glucosyltransferase (GTFB) enzyme from *Lactobacillus reuteri* 121.
- 12:15 – 13:45 *Lunch Break*
- 14:00 – 15:30 **Poster Session I.**
- 15:30 – 18:45 **Clan GH-H – Starch-binding domains as CBM families**
- 15:30 – 16:15 Invited Lecture - IL04
Thomas J. Smith (St. Louis, MO, USA): The atomic structures of several starch utilization system proteins.

16:15 – 17:00 Invited Lecture - IL05

Matthew S. Gentry (*Lexington, KY, USA*): **100 years of research links 'plant starch' to neurodegeneration.**

17:00 – 17:30 *Coffee/Tea Break and Posters*

17:30 – 17:55 Oral Communication - OC04

Margaret Dah-Tsyng Chang (*Hsinchu, Taiwan, China*): **Ligand-binding residue prediction for carbohydrate-binding modules by feature-incorporated alignment.**

17:55 – 18:20 Oral Communication - OC05

Maher Abou Hachem (*Kgs. Lyngby, Denmark*): **Starch binding domains from CBM20 and CBM45 occurring in enzymes regulating starch metabolism display substantially lower binding affinities than counterparts from strictly starch-degrading enzymes.**

18:20 – 18:45 Oral Communication - OC06

Julia Marin-Navarro (*Valencia, Spain*): **Structural and functional analysis of hybrid enzymes containing catalytic and non-catalytic domains from *Sacharomyces cerevisiae* (var. *diastaticus*) Sta1 glucoamylase.**

19:00 – 22:00 *Supper at the court of the Castle with country music*

TUESDAY – 28 September 2010

07:30 – 08:30 *Breakfast*

08:55 Announcements

09:00 – 11:50 **Clan GH-H – Novel GH13 subfamilies**

09:00 – 09:45 Invited Lecture - IL06

Pedro M. Coutinho (*Marseille, France*): **Genomics and amylase-related enzyme systems.**

09:45 – 10:30 Invited Lecture - IL07

Haruhide Mori (*Sapporo, Japan*): **Dextran glucosidase and isomaltooligosaccharide 6- α -glucosyltransferase: mechanism of substrate recognition and transglucosylation.**

10:30 – 11:00 *Coffee/Tea Break and Posters*

11:00 – 11:25 Oral Communication - OC07

Lukana Ngiwsara (*Sapporo, Japan*): **Putative role of Tyr227, Gln349 and Leu350 near catalytic amino acids of honeybee α -glucosidase III.**

11:25 – 11:50 Oral Communication - OC08

Michael L. Wall (*Ottawa, ON, Canada*): **Who's there and what are they doing at the starch granule surface? - Implications of puroindoline and host-pathogen interactions.**

12:00 – 13:30 *Lunch Break*

13:30 – 23:00 **Trip to Bratislava**

~13:30 *Conference buses leave for Bratislava*

15:00 – 16:00 *Free time in the city centre of Bratislava*

16:00 – 22:00 *Trip by boat on Danube river (including dinner)*

~ 23:30 *Arrival at the Smolenice Castle*

WEDNESDAY – 29 September 2010

07:30 – 08:30 *Breakfast*

08:55 Announcements

09:00 – 11:55 **Clan GH-H – New sequences and structures**

09:00 – 09:45 Invited Lecture - IL08

Nushin Aghajari (Lyon, France): Structural studies of *Drosophila melanogaster* α -amylase.

09:45 – 10:10 Oral Communication - OC09

James H. Geiger (East Lansing, MI, USA): Branching enzyme/malto-oligosaccharide complex structures and the mechanism of branch chain specificity in *E. coli* branching enzyme.

10:10 – 10:35 Oral Communication - OC10

Eui-Jeon Woo (Daejeon, Korea): Structural feature of the extreme thermophile maltogenic amylases from archaea.

10:35 – 11:05 *Coffee/Tea Break and Posters*

11:05 – 11:30 Oral Communication - OC11

Hans Leemhuis (Haren, The Netherlands): The GH57 family glycogen branching enzyme of *Thermus thermophilus*.

11:30 – 11:55 Oral Communication - OC12

Eva Nordberg Karlsson (Lund, Sweden): Recombinant production of an archaeal family 57 4- α -glucanotransferase, and its use in alkyl glycoside production.

12:00 – 13:30 *Lunch Break*

14:00 – 15:30 **Poster Session II.**

15:30 – 18:00 **Clan GH-H – Metabolism of starch and glycogen**

15:30 – 16:15 Invited Lecture - IL09

Alison M. Smith (Norwich, UK): Starch degradation: different plants have different pathways.

16:15 – 16:40 Oral Communication - OC13

Jean-Philippe Ral (Canberra, ACT, Australia): Elucidating the function of glucan-water-dikinase in wheat endosperm.

16:40 – 17:10 *Coffee/Tea Break and Posters*

17:10 – 17:35 Oral Communication - OC14

Christian Ruzanski (Norwich, UK): Shuffling sugars: maltose metabolism in leaves at night.

17:35 – 18:00 Oral Communication - OC15

Georges Tawil (Nantes, France): In depth characterization of raw starch hydrolysis by a new α -amylase from *Rhizomucor* sp.

18:00 – 19:00 *Refreshment Break*

19:00 – 20:00 **ALAMY_4 Banquet Lecture - IL10**

Takashi Kuriki (Osaka, Japan): Discovery of neopullulanase and proposal of my concept of the α -amylase family.

20:00 – 24:00 **Symposium Banquet with Awards Ceremony**

THURSDAY – 30 September 2010

07:30 – 08:30 *Breakfast*

Vacation of the rooms; Removing of Posters

08:55 Announcements

09:00 – 11:25 **Clan GH-H – Industrial aspects of starch processing**

09:00 – 09:45 Invited Lecture - IL11

Carsten Andersen (*Bagsvaerd, Denmark*): **Starch affinity has high importance for industrial applications.**

09:45 – 10:30 Invited Lecture - IL12

Pauline Teunissen (*Leiden, The Netherlands*): **Granular starch hydrolyzing enzymes: potential in the fermentation industry.**

10:30 – 11:00 *Coffee/Tea Break*

11:00 – 11:25 Oral Communication - OC16

Hideki Kajiura (*Osaka, Japan*): **A novel method for *in vitro* synthesis of glycogen: the structure, properties, and physiological function.**

11:25 – 12:25 **ALAMY_4 Closing Lecture - IL13**

Marc J.E.C. van der Maarel (*Groningen, The Netherlands*): **It's all in the family.**

12:25 – 12:30 **Closing words - Štefan Janeček**

12:30 – 13:30 *Lunch and Farewell*

12:30 – 13:00 The 1st Conference Bus leaves for Bratislava and Vienna

13:30 – 14:00 The 2nd Conference Bus leaves for Bratislava and Vienna
