

ALAMY_8 Definitive Programme

SUNDAY – 9 October 2022

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| 15:00 | Registration Desk open; mounting Posters |
| 15:30 – 16:00 | Conference bus from Bratislava and Vienna arrives at Smolenice Castle |
| 19:00 – 19:10 | Opening words – Štefan Janeček |
| 19:10 – 19:50 | ALAMY_8 Keynote Lecture Chair: Štefan Janeček |
| 19:10 – 19:50 | IL01 – Lifetime Achievement Award – Atsuo Kimura (Sapporo, Japan): Family opens world. |
| 20:00 – 22:00 | Opening Reception |

MONDAY – 10 October 2022

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| 07:30 – 08:30 | Breakfast |
| 08:55 | Announcements |
| 09:00 – 12:05 | α-Amylase families GH13 and GH57 – Branching and debranching enzymes Chairs: Nushin Aghajari and Carsten Andersen |
| 09:00 – 09:40 | IL02 – James H. Geiger (East Lansing, MI, USA): GH13 branching enzymes: architects of storage polysaccharides. |
| 09:40 – 10:05 | OT01 – Marc J.E.C. van der Maarel (Groningen, The Netherlands): The diversity of glycoside hydrolase family 57 glycogen branching enzymes. |
| 10:05 – 10:30 | OT02 – Hilda H.M. Bax (Groningen, The Netherlands): α-1,4-Transferase activity and correlation between glycogen branching enzymes from glycoside hydrolase families 13 and 57. |
| 10:30 – 11:00 | Coffee/Tea Break and Posters |
| 11:00 – 11:40 | IL03 – Marie S. Møller (Kgs. Lyngby, Denmark): Exploration of the transglycosylation activity of GH13 and GH57 debranching enzymes. |
| 11:40 – 12:05 | OT03 – Lionel Ballut (Lyon, France): The <i>Candida glabrata</i> glycogen branching enzyme structure reveals unique features of branching enzymes of the Saccharomycetaceae phylum. |
| 12:15 – 14:00 | Lunch Break |
| 14:00 – 15:30 | Poster Session I. |
| 15:30 – 17:00 | α-Amylase clan GH-H – Focus on gut microbiome Chair: Pedro M. Coutinho |
| 15:30 – 16:10 | IL04 – Nicole M. Koropatkin (Ann Arbor, MI, USA): The <i>Ruminococcus bromii</i> amylosome deploys multiple CBMs that recognize different aspects of starch structure. |

- 16:10 – 16:35 **OT04 – Frederick Warren (Norwich, United Kingdom): Linking carbohydrate structure with function in the human gut microbiome using hybrid metagenome assemblies.**
- 16:35 – 17:00 **OT05 – Cynthia E. Klostermann (Wageningen, The Netherlands): The beauty of RS-3 degradation by gut microbiota.**
- 17:00 – 17:30 *Coffee/Tea Break and Posters*
- 17:30 – 18:20 **α -Amylase clan GH-H – Protein design and applications – part I**
Chair: Takashi Kuriki
- 17:30 – 17:55 **OT06 – Slavko Kralj (Leiden, The Netherlands): Industrial application of GH70 family member enzymes.**
- 17:55 – 18:20 **OT07 – Diego F. Gomez-Casati (Rosario, Argentina): Identification and characterization of two glucoamylases from *Thermoanaerobacter ethanolicus* and *Saccharophagus degradans*.**
- 19:00 – 22:00 *Dinner with a music – Willie Jones Band*

TUESDAY – 11 October 2022

- 07:30 – 08:30 *Breakfast*
- 08:55 *Announcements*
- 09:00 – 12:05 **α -Amylase family GH13 – Focus on GH13 subfamilies**
Chairs: Magali Remaud-Simeon and Andreas Blennow
- 09:00 – 09:40 **IL05 – Gideon J. Davies (York, United Kingdom): Activity-based protein profiling of retaining α -amylases.**
- 09:40 – 10:05 **OT08 – Kuakarun Krusong (Bangkok, Thailand): A GH13 α -glucosidase from *Weissella cibaria* uncommonly acts on short-chain maltooligosaccharides.**
- 10:05 – 10:30 **OT09 – Ľubica Urbániková (Bratislava, Slovakia): Inspection of the GH13_16 subfamily aimed at trehalose synthases containing a maltokinase domain.**
- 10:30 – 11:00 *Coffee/Tea Break and Posters*
- 11:00 – 11:40 **IL06 – Nushin Aghajari (Lyon, France): Flying into the secrets of *Drosophila melanogaster* α -amylase.**
- 11:40 – 12:05 **OT10 – Haley A. Brown (Ann Arbor, MI, USA): The enzymology of growth inhibition in gut *Bacteroides* by the type 2 diabetes drug acarbose.**
- 12:15 – 13:30 *Lunch Break*
- 13:30 – 18:30 **Trip to Bratislava**
- ~13:30 *Conference bus leaves the Castle*
- 14:30 – 17:30 *Free time in Bratislava, the capital of Slovakia*
- ~18:30 *Arrival at the Smolenice Castle*
- 19:00 – 22:00 *Dinner with wine tasting – Muráni – VÍNO ČAJKOV, s.r.o. – Terroir TEKOV – a family winery from the village of Čajkov, Slovakia*

WEDNESDAY – 12 October 2022

- 07:30 – 08:30 *Breakfast*
- 08:55 Announcements
- 09:00 – 12:05 ***Amylolytic enzymes – Focus on starch granules***
Chairs: Birte Svensson and Gideon J. Davies
- 09:00 – 09:40 **IL07 – Andreas Blennow (Copenhagen, Denmark): Introducing starch granule heterogeneous catalysis by an inverse interfacial amylolytic approach.**
- 09:40 – 10:05 **OT11 – Pedro M. Coutinho (Marseille, France): Substrates of Carbohydrate-Active Enzyme: lessons for the post-genomics era.**
- 10:05 – 10:30 **OT12 – Joerg Fettke (Potsdam, Germany): New insights into transitory starch granule formation in *Arabidopsis thaliana* using the double mutants lacking disproportionating enzyme 2 and the plastidial phosphorylase.**
- 10:30 – 11:00 *Coffee/Tea Break and Posters*
- 11:00 – 11:40 **IL08 – David Seung (Norwich, United Kingdom): Understanding starch granule formation: new insights from exploring natural diversity.**
- 11:40 – 12:05 **OT13 – Christophe Colleoni (Lille, France): Lysine acetylation activates the GlgE glycogen synthesizing enzyme in the chlamydial *Estrella lausannensis*.**
- 12:15 – 14:00 *Lunch Break*
- 14:00 – 15:30 ***Poster Session II.***
- 15:30 – 17:15 ***Amylolytic enzymes – Health and medical aspects***
Chair: Nicole M. Koropatkin
- 15:30 – 15:55 **OT14 – Michiyo Yanase (Osaka, Japan): Functionalization of enzymatically synthesized glycogen, and its application as a drug delivery system carrier.**
- 15:55 – 16:20 **OT15 – Daniel Guillén (Coyocan, Mexico): SBD-starch for the development of new mucosal vaccines.**
- 16:20 – 16:50 *Coffee/Tea Break and Posters*
- 16:50 – 17:15 **OT16 – Darrell W. Cockburn (University Park, PA, USA): Optimizing amylase activity for making gluten free beer.**
- 17:15 – 17:55 ***α-Amylase clan GH-H – Protein design and applications – part II***
Chair: James H. Geiger
- 17:15 – 17:55 **IL09 – Hans Leemhuis (Groningen, The Netherlands): Designing functional “starch” architectures employing α-amylase family enzymes.**
- 18:00 – 19:00 *Refreshment Break / Free time*
- 19:00 – 20:00 ***ALAMY_8 Banquet Lecture***
Chair: Birte Svensson
- 19:10 – 19:50 **IL10 – Lifetime Achievement Award – Magali Remaud-Simeon (Toulouse, France): An enzymatic journey on the “country roads” of the Sugar world.**
- 20:00 – 24:00 **Symposium Banquet with Lifetime Achievement and Poster Awards**

THURSDAY – 13 October 2022

- 07:30 – 08:30 *Breakfast*
Release of rooms; removing Posters
- 08:55 *Announcements*
- 09:00 – 11:10 ***Amylolytic enzymes – Focus on properties and biosynthesis***
Chairs: Hans Leemhuis and Marc J.E.C. van der Maarel
- 09:00 – 09:25 **OT17 – Ana Maranhã (Coimbra, Portugal): Pathway for the synthesis of methylmannose polysaccharides in mycobacteria.**
- 09:25 – 09:50 **OT18 – Cecilia D'Angelo (Derio, Spain): The allosteric control mechanism of bacterial glycogen biosynthesis disclosed by cryoEM.**
- 09:50 – 10:15 **OT19 – Thibaud Laffargue (Toulouse, France): Characterization and engineering of glucan water dikinases for the *in vitro* phosphorylation of α -glucans.**
- 10:15 – 10:45 *Coffee/Tea Break*
- 10:45 – 11:10 **OT20 – Ardha Apriyanto (Potsdam-Golm, Germany): α -Amylase 3 and β -amylase 3 are essential for oil yield during fruit development of oil palm revealed by transcriptomic analysis.**
- 11:10 – 11:50 ***ALAMY_8 Closing Lecture***
Chair: Pedro M. Coutinho
- 11:10 – 11:50 **IL11 – Štefan Janeček (Bratislava, Slovakia): How many α -amylase GH families are there in the CAZy database?**
- 11:50 – 12:00 **Closing words – Štefan Janeček**
- 12:00 – 12:45 *Lunch and Farewell*
- 13:00 – 13:30 The Conference Bus leaves for Bratislava and Vienna
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