

ALAMY_7 Definitive Programme

SUNDAY – 29 September 2019

- 15:00** **Registration Desk Open; Mounting the Posters**
- 15:30 – 17:00 Conference buses from Bratislava and Vienna arrive at Smolenice Castle
- 19:00 – 19:10 **Opening words - Štefan Janeček**
- 19:10 – 19:50 **ALAMY_7 Keynote Lecture**
Chair: Štefan Janeček
- 19:10 – 19:50 **IL01 – Tom Desmet (Ghent, Belgium): Exploration and engineering of sucrose transglycosidases from GH13_18.**
- 20:00 – 22:00 **Opening Reception**

MONDAY – 30 September 2019

- 07:30 – 08:30 *Breakfast*
- 08:55 Announcements
- 09:00 – 12:05 ***α -Amylase family GH13 and clan GH-H – part I***
Chairs: E. Ann MacGregor & Birte Svensson
- 09:00 – 09:40 **IL02 – Stephen G. Withers (Vancouver, BC, Canada): Discovery, design and development of human amylase inhibitors: from nM to pM.**
- 09:40 – 10:05 **OT01 – Darrell Cockburn (University Park, PA, USA): Structure and characterization of the maltogenic amylase Amy13B from *Eubacterium rectale*.**
- 10:05 – 10:30 **OT02 – Eiji Suzuki (Akita, Japan): Differential binding of polysaccharides at surface binding sites of branching enzymes from amylopectin producing cyanobacteria.**
- 10:30 – 11:00 *Coffee/Tea Break and Posters*
- 11:00 – 11:40 **IL03 – Magali Remaud-Simeon (Toulouse, France): Enhancing the potential of sucrose-active enzymes from GH-H clan.**
- 11:40 – 12:05 **OT03 – Kuakarun Krusong (Bangkok, Thailand): Amylomaltase and large-ring cyclodextrins.**
- 12:15 – 14:00 *Lunch Break*
- 14:00 – 16:00 **Poster Session I.**
- 16:00 – 17:15 ***α -Amylase family GH13 and clan GH-H – part II***
Chair: Eva Nordberg Karlsson
- 16:00 – 16:25 **OT04 – Marie Sofie Møller (Kgs. Lyngby, Denmark): Selectivity and regulation of barley limit dextrinase approached by computational-guided and rational engineering.**
- 16:25 – 16:50 **OT05 – Manon Molina (Toulouse, France): Exploration of the molecular determinants involved in alternansucrase specificity and polymerization.**

- 16:50 – 17:15 **OT06 – Maher Abou Hachem (Kgs. Lyngby, Denmark): A new disproportionating enzyme defines a new route of maltooligosaccharide metabolism in *Lactobacillus*.**
- 17:15 – 17:45 *Coffee/Tea Break and Posters*
- 17:45 – 18:35 ***α*-Amylase families GH13 and GH57**
Chair: Nicole Koropatkin
- 17:45 – 18:10 **OT07 – Purnananda Guptasarma (Mohali, Punjab, India): Exoamylases that also act as disproportionating glucanotransferases.**
- 18:10 – 18:35 **OT08 – Xuewen Zhang (Groningen, The Netherlands): The roles of GH13 and GH57 glycogen branching enzymes from *Petrotoga mobilis* SJ95.**
- 19:00 – 22:00 *Supper (eventually at the court of the Castle) with a music*

TUESDAY – 1 October 2019

- 07:30 – 08:30 *Breakfast*
- 08:55 Announcements
- 09:00 – 09:40 ***Activity measurement of amylolytic enzymes***
Chair: Marc J.E.C. van der Maarel
- 09:00 – 09:40 **IL04 – Claudio Cornaggia (Bray, Ireland): Traditional and new methodology for the measurement of starch degrading enzymes.**
- 09:40 – 10:30 ***Glycogen metabolism in living systems***
Chair: Magali Remaud Simeon
- 09:40 – 10:05 **OT09 – Marcelo Guerin (Derio, Spain): Structural basis of glycogen biosynthesis regulation in bacteria.**
- 10:05 – 10:30 **OT10 – Matthieu Colpaert (Lille, France): Both chlamydia-related bacteria, *Estrella lausannensis* and *Waddlia chondrophila* synthesize glycogen particles via GlgE-pathway.**
- 10:30 – 11:00 *Coffee/Tea Break and Posters*
- 11:00 – 12:05 ***Health and medical aspects of starch and glycogen metabolism***
Chair: Stephen G. Withers
- 11:00 – 11:40 **IL05 – Nuno Empadinhas (Coimbra, Portugal): Polysaccharide biosynthesis vs recycling and replication in mycobacteria.**
- 11:40 – 12:05 **OT11 – Matthew S. Gentry (Lexington, KY, USA): Targeting pathogenic Lafora bodies in Lafora disease using an antibody-amylose fusion.**
- 12:15 – 13:15 *Lunch Break*
- 13:30 – 24:00 **Trip outside the Smolenice Castle**
- ~13:30 *Conference buses leave the Castle*
- 14:00 – 16:00 *Wine tasting – Fedor Malik & Syn, s.r.o. – a family viniculture in the city of Modra*
- 17:00 – 18:15 *Free time in Bratislava – the capital of Slovakia – in the complex of Eurovea facing at the Danube river waterfront*
- 18:30 – 22:30 *Cruise on the Danube river by boat including a dinner*
- ~ 24:00 *Arrival at the Smolenice Castle*

WEDNESDAY – 2 October 2019

- 07:30 – 08:30 *Breakfast*
- 08:55 *Announcements*
- 09:00 – 11:25 ***Starch- and glycogen-binding domains as CBM families***
Chairs: Nushin Aghajari & Takashi Kuriki
- 09:00 – 09:40 **IL06 – Nicole Koropatkin (Ann Arbor, MI, USA): Hidden starch-binding CBMs within the human gut microbiota.**
- 09:40 – 10:05 **OT12 – Birte Svensson (Kgs. Lyngby, Denmark): Surface binding sites and starch binding domains in enzymes involved in starch biosynthesis.**
- 10:05 – 10:30 **OT13 – Amanda Photenhauer (Ann Arbor, MI, USA): CBM74-containing proteins contribute to resistant starch breakdown in the human gut.**
- 10:30 – 11:00 *Coffee/Tea Break and Posters*
- 11:00 – 11:25 **OT14 – Casper Wilkens (Kgs. Lyngby, Denmark): Carbohydrate binding module of family 48 does not only bind starch.**
- 11:25 – 12:05 ***Starch degrading lytic polysaccharide monoxygenases AA13***
Chair: Carsten Andersen
- 11:25 – 12:05 **IL07 – Leila Lo Leggio (Copenhagen, Denmark): Lytic polysaccharide monoxygenases and their friends continue to surprise.**
- 12:15 – 14:00 *Lunch Break*
- 14:00 – 16:00 ***Poster Session II.***
- 16:00 – 17:55 ***GH families other than α -amylase families***
Chairs: Matthew S. Gentry & Jean Philippe Ral
- 16:00 – 16:40 **IL08 – Nushin Aghajari (Lyon, France): *Candida glabrata* chitinase: a new therapeutic target?**
- 16:40 – 17:05 **OT15 – Jonathan Monroe (Harrisonburg, VA, USA): Arabidopsis β -amylase2 (BAM2) is an unusual enzyme with a potentially unique function.**
- 17:05 – 17:30 **OT16 – Matthias Thalmann (Norwich, United Kingdom): The evolution of the β -amylase gene family in plants.**
- 17:30 – 17:55 **OT17 – Ľubica Urbániková (Bratislava, Slovakia): Acetylerases of the family CE16 – *in silico* analysis and comparison with related CAZy CE families and SGNH hydrolases.**
- 18:00 – 19:00 *Refreshment Break / Free time*
- 19:00 – 20:00 ***ALAMY_7 Banquet Lecture – Lifetime Achievement Award***
Chair: Birte Svensson
- 19:10 – 19:50 **IL09 – Takashi Kuriki (Osaka, Japan): It worked for me in my life as a scientist and an executive.**
- 20:00 – 24:00 **Symposium Banquet with Poster Awards**

THURSDAY – 3 October 2019

07:30 – 08:30	<i>Breakfast</i> Vacation of the rooms – Removing the Posters
08:55	Announcements
09:00 – 09:40	<i>Food and feed quality for the presence and future</i> Chair: Carsten Andersen
09:00 – 09:40	IL10 – Cheon-Seok Park (Yongin, Korea): Resistant starch (RS)-degrading gut bacteria and their related amyolytic enzymes.
09:40 – 11:15	<i>Industrial aspects of starch processing</i> Chair: Nushin Aghajari
09:40 – 10:20	IL11 – Slavko Kralj (Leiden, The Netherlands): Industrial application of α-amylase family member enzymes.
10:20 – 10:50	<i>Coffee/Tea Break</i>
10:50 – 11:15	OT18 – Michiyo Yanase (Osaka, Japan): Enzymatic synthesis of glucan dendrimer for the drug carrier and its application.
11:15 – 11:55	<i>ALAMY_7 Closing Lecture</i> Chair: Marc van der Maarel
11:15 – 11:55	IL12 – Jean Philippe Ral (Canberra, ACT, Australia): The CAZy unlimited impact of carbohydrate binding enzymes on agriculture and food
12:00 – 12:10	Closing words – Štefan Janeček
12:30 – 13:30	<i>Lunch and Farewell</i>
12:30 – 13:00	The 1 st Conference Bus leaves for Bratislava and Vienna
13:30 – 14:00	The 2 nd Conference Bus leaves for Bratislava and Vienna