

ALAMY_9 “Final” Programme

SUNDAY – 14 September 2025

15:00	Registration Desk open.
~16:00	Conference buses from Bratislava and Vienna arrive at Smolenice Castle
19:00 – 19:10	Opening words – Štefan Janeček
19:10 – 19:50	ALAMY_9 Keynote Lecture Chair: Birte Svensson
19:10 – 19:50	IL01 – Marcelo E. Guerin (<i>Barcelona, Spain</i>): Molecular basis of glycogen metabolism regulation in bacteria.
20:00 – 22:00	Opening Reception

MONDAY – 15 September 2025

07:30 – 08:30	Breakfast; Posters Nos 1-23 mounting
08:55	Announcements
09:00 – 10:30	<i>α-Amylase family GH13 – Focus on GH13 subfamilies</i> Chair: Marc van der Maarel
09:00 – 09:40	IL02 – Marie S. Møller (<i>Kgs. Lyngby, Denmark</i>): α-1,4 vs α-1,6 specificity in GH13: is subfamily 39 the missing link?
09:40 – 10:05	OT01 – Takashi Tonožuka (<i>Tokyo, Japan</i>): Structural and enzymatic characterization of <i>Rhodothermus marinus</i> GH13_47 enzyme that produces α-1,6-branched oligosaccharides.
10:05 – 10:30	OT02 – Nushin Aghajari (<i>Lyon, France</i>): Structure, function and activity relationships of the trehalulose hydrolase MutA from <i>Burkholderia ubonensis</i> subsp. <i>mesacidophila</i> MX-45.
10:30 – 11:00	Coffee/Tea Break and Posters
11:00 – 12:05	<i>The family GH70 – Member of the clan GH-H</i> Chair: Nushin Aghajari
11:00 – 11:40	IL03 – Yuxiang Bai (<i>Jiangsu, China</i>): Regulation on the glycosidic bond specificity and molecular weight of α-glucan products from starch substrate by rational engineered GH70 4,3/6-α-glycosyltransferases.
11:40 – 12:05	OT03 – Tjaard Pijning (<i>Groningen, The Netherlands</i>): How unique is 4,3-α-glucanotransferase specificity in glycoside hydrolase family GH70?
12:15 – 13:30	Lunch Break
13:30 – 15:30	<i>Poster Session I – Posters Nos 1-23.</i>
15:30 – 16:50	<i>The α-amylase family GH13 and the CAZy database</i> Chair: Takashi Kuriki
15:30 – 16:10	IL04 – Leila Lo Leggio (<i>Copenhagen, Denmark</i>): Geometry-based protonation state assignment from high quality X-ray structures: a case study on amylases & Co.
16:10 – 16:50	IL05 – Nicolas Terrapon (<i>Marseille, France</i>): Bioinformatics and biochemical explorations of known families by SSNs and of novel families with supra-operons.

16:50 – 17:20	Coffee/Tea Break and Posters
17:20 – 19:05	Starch-binding domains as CBM families Chair: Pedro M. Coutinho
17:20 – 18:00	IL06 – Samuel C. Zeeman (Zurich, Switzerland): Non-enzymatic proteins with canonical or non-canonical carbohydrate binding modules involved in granule initiation and phase transition during starch biosynthesis.
18:00 – 18:25	OT04 – Darrell W. Cockburn (University Park, PA, USA): The <i>Clostridium butyricum</i> α-amylases display preferences for different resistant starch sources, driven by their complements of carbohydrate binding modules.
18:25 – 19:05	IL07 – Romina Rodríguez-Sanoja (Ciudad de México, Mexico): Starch-binding domain: from substrate-targeting modules to versatile biotechnological tools.
19:15 – 20:30	Dinner

TUESDAY – 16 September 2025

07:30 – 08:30	Breakfast; Posters Nos 1-23 on display
08:55	Announcements
09:00 – 10:20	Amylolytic enzymes – Protein and substrate design with tailored properties Chair: Jean-Philippe Ral
09:00 – 09:40	IL08 – Euijeon Woo (Daejeon, Korea): Protein design for modulating enzyme stability and activity: a case study on glycosyltransferase.
09:40 – 10:20	IL09 – Slavko Kralj (Oegstgeest, The Netherlands): Polymer properties and application development of designed enzymatic biomaterials™.
10:20 – 10:50	Coffee/Tea Break and Posters
10:50 – 12:20	α-Amylase families GH13 and GH57 – α-Glucan branching enzymes Chair: Matthew S. Gentry
10:50 – 11:30	IL10 – Edita Jurak (Groningen, The Netherlands): Beyond branching: uncovering the links between activity and structural elements in GH13 glycogen branching enzymes.
11:30 – 11:55	OT05 – Marc J.E.C. van der Maarel (Groningen, The Netherlands): Functional diversity of GH57 glycogen branching enzymes: insights into catalytic behavior and substrate specificity.
11:55 – 12:20	OT06 – Ian J. Tetlow (Guelph, ON, Canada): Covalently linked phosphate monoesters on α-polyglucans reduce substrate affinity of branching enzymes.
12:30 – 14:00	Lunch Break
14:00 – 15:00	Free time; rest
15:00 – 22:00	The conference trip
~15:00	Conference buses leave the Smolenice Castle
~16:00	Arrival at the family winery “Karpatská Perla”, the city of Šenkvice
16:00 – 21:00	Guided tour of a family winery “Karpatská Perla” with multiple wine tasting and a dinner
~21:00	Conference buses leave the winery “Karpatská Perla”
~22:00	Arrival at the Smolenice Castle

WEDNESDAY – 17 September 2025

07:30 – 08:30	<i>Breakfast; Posters Nos 24-45 mounting</i>
08:55	<i>Announcements</i>
09:00 – 11:25	<i>The α-amylase family GH13 – Structure-function relationship studies</i> Chair: Carsten Andersen
09:00 – 09:40	IL11 – Christophe D’Hulst (Lille, France): My sweet tuber: characterization of the molecular basis of the cold-induced-sweetening in potato.
09:40 – 10:05	OT07 – Isabelle B. Pickles (York, United Kingdom): Precision activity-based α-amylase probes for dissection and annotation of starch degrading enzymes.
10:05 – 10:30	OT08 – Christophe Colleoni (Lille, France): Characterization of chlamydial debranching enzyme activity: an ancestral contribution to plant starch metabolism.
10:30 – 11:00	<i>Coffee/Tea Break and Posters</i>
11:00 – 11:25	OT09 – Dessy Natalia (Bandung, Indonesia): GH13_45 α-amylase with a twist: atypical catalytic triad and C-terminal roles in BmaN1.
11:25 – 12:05	<i>Special ALAMY_9 lecture – Focus on industrial aspects</i> Chair: Jean-Philippe Ral
11:25 – 12:05	OT10 – Takashi Kuriki (Osaka, Japan): From enzyme insight to industry impact: our strategy built on the α-amylase family.
12:15 – 13:30	<i>Lunch Break</i>
13:30 – 15:30	<i>Poster Session II – Posters Nos 24-45.</i>
15:30 – 16:10	<i>Special ALAMY_9 lecture – Focus on medical aspects</i> Chair: Marc van der Maarel
15:30 – 16:10	OT11 – Matthew S. Gentry (Gainesville, FL, USA): Amylase-centric therapeutics to treat neurological glycogen storage diseases.
16:10 – 17:00	<i>The α-amylase family GH13 – Hydrolases vs transferases</i> Chair: Nushin Aghajari
16:10 – 16:35	OT12 – Gloria Saab-Rincón (Cuernavaca, Mexico): Decoding the transglucosylation potential of GH13 enzymes via deep learning.
16:35 – 17:00	OT13 – Sara Centeno-Leija (Colima, Mexico): Unraveling the hidden diversity of cyclomaltodextrin glucanotransferases from GH13_2.
17:00 – 17:30	<i>Coffee/Tea Break and Posters</i>
17:30 – 18:35	<i>The α-amylase family GH13 – Plant isoamylases and related enzymes</i> Chair: Pedro M. Coutinho
17:30 – 18:10	IL12 – Alan Myers (Ames, IA, USA): Distribution between insoluble and soluble α-polyglucans determined by three conserved GH13 enzymes in maize endosperm.
18:10 – 18:35	OT14 – Tracie Hennen-Bierwagen (Ames, IA, USA): Structural modelling of ISA1/ISA2 complexes interacting with α-glucans.
18:35 – 19:00	<i>Relaxing Break / Free time</i>

19:00 – 20:00	ALAMY_9 Banquet Lecture Chair: Birte Svensson
19:10 – 19:50	IL13 – Lifetime Achievement Award – Bernard Henrissat (<i>Kgs. Lyngby, Denmark; Marseille, France</i>): Carbohydrate-Active enZymes: back to the future.
20:00 – 22:00	Symposium Banquet with the Dinner and Lifetime Achievement Award Ceremony
~21:00 – 02:00	<i>Selfiebot – taking funny pictures; Disco party – DJ Húska performance</i>

THURSDAY – 18 September 2025

07:30 – 08:30	<i>Breakfast; Posters Nos 24-45 on display</i> Release of rooms
08:55	Announcements
09:00 – 10:15	Amylolytic enzymes – Focus on resistant starch Chair: Takashi Kuriki
09:00 – 09:25	OT15 – Anna Ridsdill Smith (<i>Norwich, United Kingdom</i>): Starch utilisation systems by Bifidobacteria in the weaning infant gut.
09:25 – 09:50	OT16 – Oriana Sacco (<i>Naples, Italy</i>): A novel thermophilic 4-α-glucanotransferase from <i>Pyrobaculum arsenaticum</i>: biochemical characterization and its potential for producing type II resistant starch.
09:50 – 10:15	OT17 – Yu Wang (<i>Kgs. Lyngby, Denmark</i>): Applying interfacial kinetics to decipher utilization of enhanced resistant starch (eRS) by <i>Ruminococcus bromii</i>.
10:15 – 10:45	<i>Coffee/Tea Break and Posters</i>
10:45 – 11:35	Amylolytic enzymes – Insight from families GH126 and GH70 Chair: Carsten Andersen
10:45 – 11:10	OT18 – Michaela Hodorová (<i>Bratislava, Slovakia</i>): <i>In silico</i> insights into substrate binding and active-site architecture of GH126 amylolytic enzyme CPF_2247 from <i>Clostridium perfringens</i>.
11:10 – 11:35	OT19 – Cynthia E. Klostermann (<i>Wageningen, The Netherlands</i>): Application of dextran from <i>Leuconostoc</i> sp. to inhibit the adhesion of enterotoxigenic <i>Escherichia coli</i> (ETEC) to mucin.
11:35 – 11:50	ALAMY_9 – Best PhD-student and Best Poster Awards Ceremony
11:50 – 12:00	Closing words – Štefan Janeček
12:15 – 12:45	<i>Lunch (probably “take away”) and Farewell</i>
13:00 – 13:30	The Conference Buses leave for Bratislava and Vienna