

Carbohydrate Bioengineering Meeting | 15

Ghent, Belgium
5 - 8 May 2024



Program

Venue

Music Centre 'De Bijloke'
Bijlokekaai 7, BE-9000 Ghent

Contact

CBM15@ugent.be

SUNDAY MAY 5TH

Registration desk opens at 15h00

OPENING		Tom Desmet
17h00	Keynote	Bernd Nidetzky
SESSION 1. Introduction		Birte Svensson
18h00	New strategies for studying α -2,8-linked sialic acids	Lisa Willis
18h20	<i>O</i> -acetylation of peptidoglycan in Gram-negative bacteria	Anthony J. Clarke
18h40	Unravelling the specificity of CBM type A	Andrew P. Rennison
18h50	GH109 enzymes for converting blood group A to O	Nicola Curci
19h00	Reception	

SESSION 2. Enzyme exploration		Magali Rемаud-Siméon
9h00	Computational design of diverse enzyme repertoires	Sarel Fleishman
9h40	Large-scale exploration of GH5 subfamilies	Bo Pilgaard
10h00	Characterization of UDP-dependent GT from family 1	Ditte H. Welner
10h20	Alternative glycan degradation by gut microbiome	Seyed A. Nasseri
10h40	<i>Coffee break</i>	
SESSION 3. Enzyme discovery		Carsten Andersen
11h10	Opportunities of microbiomics for CAZyme discovery	Gabrielle Potocki-Véronèse
11h50	Assigning function of enzymes within genetic clusters	Edita Jurak
12h10	CAZymes in the <i>Akkermansia muciniphila</i> genome	Cassie Bakshani
12h30	Gram-positive PUL in <i>Ruminiclostridium cellulolyticum</i>	Stéphanie Perret
12h40	Family GH35 enzymes with new catalytic reactions	Masahiro Nakajima
12h50	<i>Lunch</i>	
SESSION 4. Enzyme evolution		Nicolas Terrapon
14h00	Evolution of plant cell wall glycosyltransferase specificity	Paul Dupree
14h40	Evolution of ancestral transferases into phosphorylases	Jorick Franceus
15h00	Predatory adaptation of endo- α -arabinofuranases	Samuel Benedict
15h20	Poster pitches	Multiple
15h40	<i>Coffee break & Poster session A</i>	
SESSION 5. Glycobiotechnology		Takashi Kuriki
17h00	From evolved to artificial CAZymes	Regis Fauré
17h40	Flow reactor for automated glycan synthesis	Kai P. Hussnaetter
18h00	Mannosyl transfer by hydrolases and phosphorylases	Henrik Stålbrand
18h20	Peptidoglycan de- <i>N</i> -acetylases: structure and specificity	Antoni Planas
<i>Free Evening</i>		

SESSION 6. Medical glycobiology		Marco Moracci
9h00	<i>H. influenzae</i> type b capsule and vaccine development	Marcello Guerin
9h40	Chemoenzymatic synthesis of GAG-based agents	Paul DeAngelis
10h00	GlycoRNA biology on the cell surface	Ryan Flynn
10h20	Bacterial production of mucin-type O -glycoprotein	Warren Wakarchuk
10h40	<i>Coffee break</i>	
SESSION 7. Human gut		Pedro Coutinho
11h10	Resistant starch degraders in the human gut	Nicole Koropatkin
11h50	Mucin O -glycan degradation by gut Bacteroides	Ana Luis
12h10	Glycoconjugates for microbiota-mediated drug targeting	Harry Brumer
12h30	Modulating invertase to reduce FODMAP in bread	Kurt Gebruers
12h40	Synthesis of novel oligosaccharides from raffinose	Bjørge Westereng
12h50	<i>Lunch</i>	
SESSION 8. Alternative enzymes		Morten Sørlie
14h00	Recent insights into the catalytic properties of LPMOs	Vincent Eijsink
14h40	Monitoring LPMOs under oxidative conditions by NMR	Finn Aachmann
15h00	Structures of a PL42 lyase and a GH1 β -glucosidase	Shinya Fushinobu
15h20	Poster pitches	Multiple
15h40	<i>Coffee break & Poster session B</i>	
SESSION 9. Enzyme mechanisms		Vladimir Kren
17h00	Molecular regulation of O -GlcNAc transferase	David Vocadlo
17h40	A multi-domain enzyme degrading blood group type B	Toma Kashima
18h00	Novel mechanisms of GT-mediated protein glycosylation	Carme Rovira
18h20	Mechanism of β -1,3- and mixed-linkage glucanases	Mariana Morais
19h30	<i>Conference Dinner (Oude Vismijn, Sint-Veerleplein 5)</i>	

SESSION 10. Marine environments		Stephen Withers
9h00	Discovery and application of marine polysaccharidases	Yaoguang Chang
9h40	Alginate modification by a family PL38 enzyme	Tobias Tandrup
10h00	Bacterial CBMs in phytoplankton blooms	Marie-Katherin Zühlke
10h20	Structure-function of Bacteroidota sulfatases	Antonin Chevenier
10h30	Fungal carbohydrate sulfotransferases approaches	Nicolas Graziano
10h40	<i>Coffee Break</i>	
SESSION 11. Glycobiotechnology		Tom Desmet
11h00	Enzyme engines for the synthesis of galectin inhibitors	Pavla Bojarová
CLOSING		Birte Svensson
11h30	Keynote	Gideon Davies
12h30	<i>Lunch</i>	

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