



Cell Factories for Industrial Bioproduction

CFIB2020 - Selecting and enhancing expression systems for biomolecules production

Program in progress subject to changes (update Feb 27)

Tuesday, October 27, 2020

- 8:30 *Welcome coffee*
- 9:00-9:10 **Adebiotech welcome address**
Sylvio BENGIO, Adebiotech, France
- 9:10-9:35 **Keynote lecture**
Fayza DABOUSSI, Director Life Sciences at Toulouse White Biotechnology (TWB), France

9:40-10:55 SESSION 1 - INDUSTRIAL STRATEGIES, Part 1

- 9:40-10:00 **Sandra CASTANG**, Deinove, France
Deinococcus as a cell factory for carotenoids
- 10:05-10:25 **John McBRIDE**, Sr. Director R&D, MASCOMA Corp. (Lallemand), Darmouth College, USA
Approaches for Yeast engineering (Title to be confirmed)
- 10:30-10:50 **Anthony BRESIN**, Chief Technology Officer, HTL Biotechnology, France
Constraints associated to the development of a novel polysaccharide by fermentation

10:55-11:15 *Coffee break / exhibitions / posters / networking*

11:20-12:30 SESSION 1 - INDUSTRIAL STRATEGIES, Part 2

- 11:20-11:40 **Frank DELVIGNE**, Professor, University of Liège, Belgium
Scale-up of microbial processes: a modern light on an old issue
- 11:45-12:05 **Jan-Willem de GIER**, Professor, Stockholm University, Sweden
Engineering E. coli Strains for Recombinant Protein Production
- 12:10-12:30 **Dominique THOMAS**, CSO/CEO, Alderys, France (to be confirmed)
Synthetic biology platforms for yeast engineering

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12:30-13:00 ROUND TABLE INTELLECTUAL PROPERTY, LICENSING AND SUSTAINABILITY

Chairs: Alexis RANNOU, Givaudan and Fayza DABOUSSI, Toulouse Biotechnology institute

Guy HELIN, CEO & Co-Founder, Syngulon, Belgium

Fabien PALAZZOLI, IP Studies, Lausanne Switzerland

Dominique THOMAS, Alderys *(to be confirmed)*

Lorie HAMELIN, INSA

13:00-14:15 *Buffet lunch / exhibitions / posters / networking*

14:15-15:45 SESSION 2 – FERMENTATION and SUSTAINABLE PRODUCTION

14:15-14:30 **Hendrik WAEGEMAN**, Head of business operations, Bio Base Europe Pilot Plant, Belgium
Upstream challenges in scale-up of industrial bioprocesses

14:30-14:50 **Wim SOAETERT**, Professor industrial Biotechnology, BBE, University of Ghent, Belgium
Metabolic engineering for the production of specialty carbohydrates and biosurfactants

14:55-15:15 **Lorie HAMELIN**, INSA
Role of industrial biotech within a sustainable national strategy towards zero fossil carbon

15:20-15:40 ADISSEO and SOLVAY, LCA Case study *(speaker and Title to be confirmed)*

15:45-16:00 PRESENTATION OF SELECTED FLASH POSTERS - Part 1

16:00-16:30 *Coffee break / exhibitions / posters / networking*

16:30-18:05 SESSION 3 – (session title to be selected)

16:30-16:50 **Leonardo MAGNESCHI**, Section Head – Molecular Biology, Ingenza Ltd., Scotland
SynBio A to Z: integrated bioengineering platforms for efficient biomanufacturing in prokaryotic and eukaryotic production systems.

16:55-17:15 **Jason T. GRAMMAK**, Inscripta Inc., USA
Digital Genome Engineering: unlocking the unlimited potential of Biology

17:20-17:40 SPEAKER AND TITLE AWAITING CONFIRMATION

17:45-18:05 SPEAKER AND TITLE AWAITING CONFIRMATION

18:05-18:35 PRESENTATION OF SELECTED FLASH POSTERS - Part 2

19:00-20:30 *Cocktail / Networking*

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Wednesday, October 28, 2020

8:15 Welcome coffee

8:45-12:05 SESSION 4 – IMPROVING EXPRESSION SYSTEMS FOR THERAPEUTIC PROTEINS

- 8:45-9:05 **Philippe LEDENT**, CSO, X-Press Biologics, Belgium
A Molecular Biology Toolbox For Rapid Selection Of Escherichia Coli Expression Strains
- 9:10-9:30 **Lars STOCKL**, Senior Director BD and Technology, Glycotope GmbH, Germany
GlycoExpress® - An alternative host for difficult to express proteins
- 9:35-9:55 **Peter SCHOTTE**, Section head CMC Pharmaceutical development, Ablynx, Ghent, Belgium
Pichia pastoris (Title to be confirmed)
- 10:00-10:20 Muriel **BARDOR**, Université de Rouen, France
Microalgae as alternative cell factory for the production of monoclonal antibodies
- 10:25-10:45 SPEAKER AND TITLE AWAITING CONFIRMATION
- 10:50-11:15 *Coffee break / exhibitions / posters / networking*
- 11:20-11:40 SPEAKER AND TITLE AWAITING CONFIRMATION
- 11:45-12:05 SPEAKER AND TITLE AWAITING CONFIRMATION

12:15-13:00 ROUND TABLE - Expression systems for therapeutics

Chairs: **Jacques DUMAS**, Sanofi and X

Participants: to be determined

13:00-14:30 *Buffet lunch / exhibitions / posters / networking*

14:30-16:00 SESSION 5 - EMERGING APPROCHES, TECHNOLOGIES AND TOOLS

- 14:30-14:50 **Jean-Baptiste PENIGAULT**, BerkeleyLights Inc. Emeryville, USA
Finding the Best Cells for the Cell Factories of Today and Tomorrow with The Beacon® Optofluidic Platform
- 14:55-15:15 **Moritz VON STOSCH**, GSK Process systems biology
Hybrid modeling, combining data- and knowledge-driven modeling for fast and systematic upstream process development
- 15:20-15:40 **Thanos BEOPOULOS** Integrative Biologist Bio-Process Business Unit., BMSys, France
The Full-Human Protein Glycosylation in Yeast CADI model ready for experimental validation.
- 15:40-16:00 **Guillaume MOTTET**, Sanofi, France
Microfluidics approaches for antibody selection (Title to be confirmed)
- 16:00-16:45 *Coffee break / exhibitions / posters / networking*

16:45-17:15 GENERAL DISCUSSIONS and CONFERENCE CONCLUSIONS

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