



# Cell Factories for Industrial Bioproduction

CFIB2020 - Selecting and enhancing expression systems for biomolecules production

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Program in progress subject to changes (update March 9, 2020)

**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 McBRIE**, Sr. Director R&D, MASCOMA Corp. (Lallemand), Darmouth College, USA  
*New Yeasts for Fuel Ethanol Production*
- 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  
*Synthetic biology platforms for yeast engineering*

## 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

**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** **EUROFINS PRESENTATION** (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*

**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 a Sanofi company, Ghent, Belgium  
*Presenting the Pichia based Nanobody expression platform*
- 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., BMSystems, 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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