

ENZYNOV'2

Enzymatic Biocatalysis For Industry

Unleashing the power of Enzymes and Biocatalysis for industrial applications

October 26-27 2023 • Biocitech Paris-Romainville

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Thursday, October 26, 2023

- 8h30 *Participants registration and welcome coffee*
- 9h00-9h05 **Welcome from organizers**
Sylvio BENGIO, Adebitech, **Juliette MARTIN**, Protéus by Seqens
- 9h05-9h45 **Keynote lecture: Novozymes**
Jens Erik NIELSEN, VP of Enzyme Research
Accelerating sustainability through the use of enzymes

9h45-13h00 **SESSION 1 – TECHNOLOGY INNOVATIONS IN ENZYME ENGINEERING, PRODUCTION AND ANALYTICS**

Chairs: Juliette MARTIN, Protéus by Seqens / Magali REMAUD-SIMÉON, INSA Toulouse

- 09h45-10h05 **Olivier VIDALIN**, Protéus by Seqens
Tailored-made enzymes for industrial applications: screening from diversity to enzyme engineering.

- 10h05-10h25 **Jean-Christophe BARET**, **University Bordeaux, CNRS UMR5031**
Microfluidics method for enzyme engineering
- 10h25-10h45 **Sophie BARBE**, **TBI (Toulouse Biotechnology Institute)**, Biocatalysis department
AI-powered computational design for enzyme engineering

10h45-11h00 *Coffee break / posters / networking*

- 11h05-11h25 **Sebastian GERGEL**, **EnginZyme (Sweden)**
EziG® – An advanced technology for enzyme immobilisation
- 11h25-11h45 **Rita CRUZ**, **Ingenza Ltd (Scotland)**
Exploiting microbial cell factories to secure the future of industrial enzymatic biocatalysis
- 11h45-12h05 **Nico SNOECK**, **BBEU Ghent Belgium**
Challenges in scaling up industrial enzyme production
- 12h05-12h25 **Alexis VLANDAS**, **Zymoptiq France**
Fast, easy, robust disruptive solution for enzyme quantification

12h30-13h00 **ROUND TABLE DISCUSSION ON SESSION 1 TOPICS**

13h00-14h00 **LUNCH BREAK AND NETWORKING**

14h00-16h00 **SESSION 2 – ENZYME INNOVATIONS FOR FOOD/ BEVERAGE and CHEMISTRY APPLICATIONS**

Chair: David GUERRAND, Lallemand

- 14h00-14h20 **Jacky VANDEPUTTE**, **Expert innovation**
Enzymes, key processing aids and additives, essential for enhancing the performance and sustainability of food and feed
- 14h20-14h40 **Maureen DE WISPELAERE**, **DSM**
How enzymes help you to be more sustainable in food ingredient processing
- 14h40-15h00 **Jlali MAAMER**, **Adisseo**
Enzymes for Feed
- 15h00-15h20 **Jean-Christophe LEC**, **Arkema**
Biocatalysis for Commodity & Speciality Chemistry

15h20-15h50 **ROUND TABLE DISCUSSION ON SESSION 2 TOPICS**

16h00-16h30 **FLASH SCIENTIFIC POSTERS PRESENTATIONS**

- 16h00-16h05 **Simon LADEVEZE**, **TBI-INSAToulouse**
A new metagenome mining strategy unlocks Glycoside Phosphorylases discovery
- 16h05-16h10 **Winnie DEJONGHE**, **Flemish Institute for Technological Research**
Lipase catalyzed selective production of isopropyl esters and lignin derived lipophilic antioxidant esters
- 16h10-16h15 **Valeria DELLA GALA**, **The Novo Nordisk Foundation Center for Biosustainability (Technical University of Denmark)**
Enzymatic epimerization of deoxynivalenol for food and feed decontamination: enzyme discovery and engineering strategies
- 16h15-16h20 **Carine VERGNE-VAXELAIRE**, **CEA Genoscope**
Diverse Amine dehydrogenases for the biocatalytic synthesis of amines
- 16h20-16h25 **Clara GUILLERMOU**, **OLEON**
The INCITE project - INnovative Chemoenzymatic InTEgrated processes

16h25-16h30 **Beatrice MONGILI**, **Biosphere srl**
Applying ligninases to resolve end-of-life issues of thermoset composite plastics

16h30-17h00 *Coffee break*

17h00-19h00 **SESSION 3 – ENZYME INNOVATIONS FOR ENVIRONMENT AND SUSTAINABLE DEVELOPMENT**

Chair: **Alexis Rannou**, **Givaudan Active Beauty**

17h00-17h20 **Sonja SALMON**, **North Carolina State University (USA)**
Enzymatic carbon capture

17h20-17h40 **Alain MARTY**, **Carbios**
Enzymatic plastic recycling

17h40-18h00 **Alexander SANDAHL**, **Danish Technological Institute**
EnZync: addressing difficult-to-recycle plastics with enzymes

18h00-18h20 **David DAUDÉ**, **Gene&GreenTK**, **Proxis development group**
Optimized enzymes for controlling phytopathogens

18h30-19h00 **ROUND TABLE DISCUSSION ON SESSION 3 TOPICS**

19h15-21h15

COCKTAIL and NETWORKING



Friday, October 27, 2023

8h30

Welcome coffee

9h00-10h30 SESSION 4 – COSMETICS & HEALTH

Chair: Alexis RANNOU, Givaudan Active Beauty

9h00-09h20 Florent YVERGNAUX, Solabia

Applications of prebiotic gluco oligosaccharide, ceramide analogs and laccases from Botrytis cinerea

09h20-9h40 Alexis RANNOU, Givaudan Active Beauty

How enzymes can bring stability and efficiency for cosmetics applications

9h40-10h00 FLASH SCIENTIFIC POSTERS PRESENTATIONS

9h40-9h50 María Catalina QUESADA SALAS, GEC

Enzymes and non-conventional solvents for fractioning and bio-conversion of the main polymers from Miscanthus

9h50-10h00 Adèle DRAMÉ-MAIGNÉ, CEA Saclay / Purpl Research

Amulet: Super-Fast Targeted Multi-Site Mutagenesis based on Uracilated Single-Stranded Transient Template

10h00-10h30 **ROUND TABLE DISCUSSION ON SESSION 4 TOPICS**

10h30-11h00 Coffee break

11h00-11h30 FLASH CORPORATE PRESENTATIONS

Clément DINCE, Protéus by Sequens

Alexis RANNOU, Givaudan Active Beauty

David GUERRAND, LALLEMAND

Luis RIVERA, Protera

Téo FOURNIER, GenoScreen

Sune CHRISTENSEN, Novozymes

11h45-12h45 FINAL ROUND TABLE AND PERSPECTIVES: Solving the bottlenecks in enzyme production and applications

Chairs: Jacky VANDEPUTTE, Expert consultant / Alexis RANNOU, Givaudan

13h00

BUFFET LUNCH

Conference ends at 15:30