

# 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**

**Leonardo ÁLVAREZ, 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 and Networking ends at 16h00**