Yeast in bioeconomy conference

October 22nd - 24th, 2025
Compiègne, France

Day 1: Wednesday, October 22nd, 2025

- **10:00 AM - 1:45 PM**
  - **Registration** for participants arriving on Day 1
- **1:45 PM - 2:15 PM**
  - **Opening Ceremony**
- **2:15 PM - 6:15 PM**
  - **Session 1: Strain Engineering for Sustainable Bioeconomy Applications**
    Objective: Improving yeast strains for advanced biosynthetic pathways, optimizing byproduct and waste assimilation, and fostering sustainable production.
    - **2:15 PM - 3:00 PM**: Plenary Lecture by **Rodrigo Ledesma-Amaro**, Imperial College London, UK

      Title: Engineering biology in yeast cells and communities for a sustainable bioeconomy

    - **3:00 PM - 4:15 PM**: Presentations and discussions (15 min each)
    - **4:15 PM - 4:45 PM**: Coffee Break and poster/demonstration session
    - **4:45 PM - 6:15 PM**: Presentations and discussions continue (15 min each)
    - **Session Topics**:
      - Metabolic engineering for optimized byproduct and waste utilization
      - Cloning pathways for de novo molecule synthesis in yeast
      - Enzyme optimization for biosynthetic efficiency
      - Yeast strain development and adaptation for industrial bioeconomy applications

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Day 2: Thursday, October 23rd, 2025

- **8:00 AM - 9:00 AM**
  - **Registration** for participants arriving on Day 2
- **9:00 AM - 1:00 PM**
  - **Session 2: Fermentation Technology and Bio-Based Compound Production**
    Objective: Leveraging byproducts and waste in yeast fermentation to produce high-value, sustainable compounds.
    - **9:00 AM - 9:45 AM**: Plenary Lecture by **Andreas K. Gombert**, University of Campinas, Brazil

      Title: Microbial ecology and (meta)genomics for a better understanding and improvement of bioethanol production from sugarcane

- **9:45 AM - 11:00 AM**: Presentations and discussions (15 min each)
- **11:00 AM - 11:30 AM**: Coffee Break and poster/demonstration session
- **11:30 AM - 1:00 PM**: Presentations and discussions continue (15 min each)
- **Session Topics**:
  - Valorization of industrial byproducts and wastes in fermentation
  - Optimization of fermentation parameters for valuable compound production
  - Development of co-cultures for enhanced fermentation efficiency
  - Fermentation scaling and yield improvement techniques

- **1:00 PM - 2:30 PM**
  - **Lunch Break and poster/demonstration session**
- **2:30 PM - 6:00 PM**
  - **Session 3: Downstream Processing, Bioreactor Design, and Process Scale-Up**
    Objective: Exploring advanced techniques in pre-treatment, extraction, purification, bioreactor design, and scalability for bio-based production.
    - **2:30 PM - 3:15 PM**: Plenary Lecture by **Elodie Vlaeminck**, Bio Base Europe Pilot Plant (BBEPP), Belgium

      Title: Scaling yeast fermentation and downstream processing: Sustainable production of triacylglycerols with *Y. lipolytica*

    - **3:15 PM - 4:30 PM**: Presentations and discussions (15 min each)
    - **4:30 PM - 5:00 PM**: Coffee Break and poster/demonstration session
    - **5:00 PM - 6:15 PM**: Presentations and discussions continue (15 min each)
    - **Session Topics**:
      - Advanced pre-treatment, extraction, and separation techniques for yeast bio-based compounds
      - Purification strategies for high-purity product recovery
      - Bioreactor design, optimization, monitoring, and control in yeast-based production
      - Scale-up strategies for industrial yeast fermentation
- **8:00 PM - 11:30 PM**
  - **Gala Dinner**

Day 3: Friday, October 24th, 2025

- **8:00 PM - 8:30 PM**
  - **Registration** for participants attending only Day 3
- **8:30 AM - 12:30 PM**
  - **Session 4: Techno-Economic Analysis, Life Cycle Assessment, and Industrialization**
    Objective: Evaluating the environmental impact, financial viability, and promoting process industrialization.
    - **8:30 AM - 9:15 AM**: Plenary Lecture by **Patrick Carré**, Terres Inovia, France

      Title: Techno-economic analysis of microbial oil production: a case study on odd-chain fatty acids

- **9:15 AM - 10:30 AM**: Presentations and discussions (15 min each)
- **10:30 AM - 11:00 AM**: Coffee Break and poster/demonstration session
- **11:00 AM - 12:30 PM**: Presentations and discussions continue (15 min each)
- **Session Topics**:
  - Life cycle assessment for bio-based processes and products
  - Minimizing environmental impact in bio-based production
  - Techno-economic analysis of sustainable fermentation processes
  - Production process industrialization and market integration

- **12:30 PM - 1:30 PM**
  - **Lunch Break and poster/demonstration session**
- **1:30 PM - 2:00 PM**
  - **Closing Ceremony**
    - Presentation of awards
    - Announcement of the **YBC 2027** location
- **2:00 PM – 5:00 PM** Optional visit to the biotechnology platform.