

IMPROVING BIOPROCESSES BY METABOLIC ENGINEERING AND SYNTHETIC BIOLOGY



Spanish Society of Biotechnology (SEBiot)
Thursday, September 25th (12h30-14h00)
First Floor - Room 16

Sponsored by:



The aim of the session is to discuss how the metabolic engineering and the synthetic biology can contribute to the substantial improvement of the efficiency of bioprocesses in order to facilitate the industrial production under an economical perspective. For that purpose, four examples including processes in different stages of development (from lab to industrial scale) have been selected: Biopharmaceuticals, Bioplastics, 2-Butanol and recombinant protein production. The speakers belong to Companies (Lonza), and Universities (Chalmers, Autonoma of Barcelona and Santiago de Compostela).

Moderator:

- **Juan Lema:** Professor, Chemical Engineering Department, UNIVERSITY OF SANTIAGO DE COMPOSTELA & Coordinator, Environmental Biotechnology Section, SPANISH SOCIETY OF BIOTECHNOLOGY (SEBiot) (Spain)

Speakers:

- **Christer Larsson:** Professor, CHALMERS UNIVERSITY OF TECHNOLOGY (Sweden). “*2-butanol production and tolerance in the yeast *Saccharomyces cerevisiae**”
- **María López-Abelairas:** Researcher, UNIVERSITY OF SANTIAGO DE COMPOSTELA (Spain) & Researcher, FRENCH INSTITUTE OF PETROLEUM (France). “*Challenges in biopolymers production: The role of synthetic biology*”

- **María Vázquez:** Downstream MSAT Manager, LONZA BIOLOGICS (Spain). *“Large scale production of biopharmaceuticals: Optimization strategies”*
- **Pau Ferrer:** Associate Professor, Department of Chemical Engineering, AUTONOMOUS UNIVERSITY OF BARCELONA (Spain). *“Systems metabolic engineering for recombinant protein production with the yeast Pichia pastoris”*