The IPSEN – Industrial Process Systems Engineering Unit of NTUA is pleased to invite you to the upcoming Bioindustry 4.0 annual webinar series. We'll explore the cutting-edge innovations transforming bioprocessing across industries. Along with expert presentations, we'll also offer hands-on training sessions.



Date: August 27-28, 2025

Location: online **Participation is free!**

Sign up here.

Target audience: Biotechnologists, process engineers, researchers, and data scientists

across different sectors, anyone interested is welcome!

Take a look at the **timetable** and get more **information** of the speakers here.

Sessions and Speakers:

Wednesday, August 27th, 2025, 2 pm – 5 pm

1. **LLMs in Bioindustry:** Knowledge base expansion, data integration, and insight generation

Speakers: Emanuel Souza de Quadros (DSMZ), Marco Anteghini (University of Bologna)

2. **Training webinar:** Real-time insights: the role of Process Analytical Tools in industrial biotech

Speakers: Jörn Viell (RWTH Aachen), Martin Kögler (VTT), Mari Tenhunen (Timegate Instruments Ltd.)

Thursday, August 28th, 2025, 10.30 am – 5.15 pm

1. Auto-Encoders to Use Process Dynamics to Target Metabolic Protein Regulation in Metabolic Pathways

Speakers: Vassily Hatzimanikatis (EPFL), Stefanos Xenios (National Technical University of Athens), Konstantinos Mexis (National Technical University of Athens)

- 2. **Connected innovation ecosystems** in the field of biotechnology **Speakers**: Vitor Martins dos Santos (LifeGlimmer GmbH), and Stefanie Bröring (Ruhr University Bochum)
- 3. **Biotechnology in the age of Artificial Intelligence**: benefits and security implications

Speakers: Michael Imperiale (University of Michigan), Markus Schmidt (Biofaction), Michael O'Donohue (INRAE)