

## PRESS RELEASE

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Announcement

# 8<sup>th</sup> BioProScale Symposium 2024: Scaling Down and Up of Bioprocesses: Strategies, Tools and Process Performance

Berlin, April 9–11, 2024

**The 8<sup>th</sup> BioProScale Symposium “Scaling Down and Up of Bioprocesses: Strategies, Tools and Process Performance” will take place from April 9-11, 2024 in Berlin, Germany. The symposium addresses experts from research & development and industrial practice in bioprocessing of pharmaceuticals, food, feed and renewables.**

„Our goal is to discuss the current state of the art in terms of bioprocess behavior at large industrial scale and to demonstrate solutions on how to integrate the relevant properties into the entire process development pipeline”, says Prof. Dr. Peter Neubauer, Head of the Chair of Bioprocess Engineering of Technische Universität Berlin and scientific director of the symposium. “In this context, any scaling starts with a scale-down approach. Current exciting challenges in process development include the use of process analytical technologies (PAT) and the implementation of consistent FAIR data strategies throughout the lifecycle from initial screening to production.”

Other exciting developments closely related to scale-up are networked bioprocesses in the sense of a circular economy. In this context, different biological systems are used together or successively to produce valuable materials, the emergence and dynamics of cell populations, and the implementation of digital twins with special consideration of the potential of Artificial Intelligence (AI) in different phases of process development.

The 8<sup>th</sup> BioProScale Symposium takes place at the Langenbeck-Virchow-Haus, an esteemed congress venue in the center of Berlin. The organizers looking forward to welcome around 250 attendees from all over the world.

The symposium topics include in particular:

### **Area 1: Industrial scale process performance and optimization**

Large scale bioreactor/bioprocess characterization and modelling, description of cell and reactor heterogeneities, sustainability of bioprocesses

### **Area 2: Scale down and scale up of bioprocesses**

Process performance across scales and process modes. Scale down approaches, small scale simulators of industrial scale processes, scale related cell physiology, validation of scalability, high throughput bioprocessing concepts

### **Area 3: Process-driven cell performance**

Analysis and modelling of cell populations, optimization and design of cell-cell and cell-bioreactor interactions, microbial co-cultivation

**Area 4: Integrated bioprocesses**

Circular economy concepts, bioprocess coupling, continuous operation, integrating upstream and downstream operations across scales

**Area 5: Process analytical technologies (PAT)**

Sensor integration, data modelling fusion, PAT for faster scale down and up of bioprocesses

The 8<sup>th</sup> BioProScale Symposium is jointly organised by the Department of Bioprocess Engineering, Technische Universität Berlin, and the Institute for Gärungsgewerbe und Biotechnologie zu Berlin (IfGB) since 2009. Additional co-organisers are BioProScale e.V. and Bio-PAT e.V.

**Congress venue:**

Langenbeck-Virchow-Haus, Luisenstr. 58/59, 10117 Berlin (Mitte), Germany

**Congress language:** English.

With accompanying exhibition.

More information and registration at [www.bioproscale-conference.org](http://www.bioproscale-conference.org).

Call for abstracts: [biotechnologie.ifgb.de/bioproscale2024/callforpapers](http://biotechnologie.ifgb.de/bioproscale2024/callforpapers)

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