



**IfGB**

Institut für  
Gärungsgewerbe  
und Biotechnologie  
zu Berlin

# 9<sup>th</sup> BioProScale Symposium

## Scaling Down and Up of Bioprocesses: Strategies, Tools and Process Performance

April 20-22, 2026, Langenbeck-Virchow-Haus, Berlin, Germany

Three-day symposium about industrial scale bioprocess intensification  
from process development to understanding the large-scale

- + Scale Up and Industrial Scale Processes
- + Bioprocess Scale Down Models for Heterogeneities
- + Process-Driven Cell Performance
- + Integrated Bioprocesses
- + Process Analytical Technologies (PAT) and FAIR Data Management



[www.bioproscale-conference.org](http://www.bioproscale-conference.org)

VENUE: LANGENBECK-VIRCHOW-HAUS, LUISENSTR. 58/59, 10117 BERLIN, GERMANY

## Scaling Down and Up of Bioprocesses: Strategies, Tools and Process Performance

### ■ Why attend?

This symposium offers a unique platform for knowledge exchange and collaboration, fostering innovation across academic and industrial bioprocessing landscapes. Attendees will gain insights into the latest technologies, methodologies, and practices that are shaping the future of scalable and sustainable bioprocessing.

Join us in Berlin for three days of impactful discussions, networking opportunities, and groundbreaking advancements in the field of bioprocessing.

### ■ Target groups

People from industry and academia involved in bioprocess development, scale down and scale up to produce of pharmaceuticals, bulk and fine chemicals, food and feed as well as renewables. Providers of (single use) bioreactor systems across various scales, sensors for process monitoring, software tools and lab automation. Experts who deal with microscale bioengineering, co-cultivation, cell-bioreactor interaction, feedstock flexibility, techno-economic & sustainability assessments and circular bioeconomy.

### ■ Topics

#### Scale Up and Industrial Scale Processes

- Optimizing bioprocess performance across scales and operational modes
- Modeling cell and reactor heterogeneities at large scales
- Evaluating the performance of engineered and synthetic cell factories in large scale operations

#### Bioprocess Scale Down Models for Heterogeneities

- Designing scale down models to address process parameter and cell population heterogeneities
- Developing small-scale simulators for industrial processes
- Leveraging high-throughput bioprocessing concepts for enhanced scalability

#### Process-Driven Cell Performance

- Investigating the dynamics of population heterogeneities during process development
- Optimizing cell-to-cell and cell-to-bioreactor interactions
- Exploring advances in microbial co-cultivation for innovative applications

#### Integrated Bioprocesses

- Implementing circular economy and sustainability strategies in bioprocessing
- Advancing bioprocess coupling and continuous operations
- Integrating upstream and downstream processes across scales for seamless operations

#### Process Analytical Technologies (PAT) and FAIR Data Management

- Integrating sensors and data fusion for real-time process monitoring
- Deploying PAT-based control strategies for bioprocess scale up and scale down
- Applying FAIR data principles to enhance bioprocess analytics, reproducibility, and collaborative data sharing

### ■ Organisers

The BioProScale Symposium is a joint project of

- Technische Universität Berlin – Chair of Bioprocess Engineering
- IfGB, c/o VLB Berlin e.V. & BioProScale e.V. & Bio-PAT e.V.

### ■ Date & Location

April 20-22, 2026 (Mon – Wed)

Venue: Langenbeck-Virchow-Haus, Luisenstr. 58/59, 10117 Berlin (Mitte), Germany, [www.langenbeck-virchow-haus.de](http://www.langenbeck-virchow-haus.de)  
Congress language is English

### ■ Contact

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### ■ Attendance fee\*

Participants from Industry	1,390 € + VAT
Participants from Scientific institutions	750 € + VAT
PhD/MSc Student ticket	380 € + VAT

### ■ Discounts

**Bio-PAT members:** 10 % discount on all prices for registration, exhibition and sponsorship options.

**Quantity discount:** We grant a 20 % discount for 5 or more participants from the same company registering at the same time. It is not possible to claim a discount retrospectively.

### ■ Exhibition & Sponsoring

For information about the accompanying exhibition and sponsoring please contact Olaf Hendel, [hendel@vlb-berlin.org](mailto:hendel@vlb-berlin.org)

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