



 **Institut für Biotechnologie**
Technische Universität Berlin
Bioverfahrenstechnik



6th BioProScale Symposium

30 MARCH TO 1 APRIL 2020, BERLIN, GERMANY

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

Scale-up and scale-down for accelerated bioprocess development and optimisation

- + Industrial-scale bioprocessing
- + Scaling up and down of bioprocesses
- + Miniaturized bioprocessing and automation
- + Bioprocesses for a circular economy
- + Process Analytical Technologies (PAT)
- + Cell culture technologies



www.bioproscale-conference.org



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



Scale-up and scale-down for accelerated bioprocess development and optimisation

■ Target groups

People from industry and academia involved in bioprocess development, scale up and scale down for the production of pharmaceuticals, bulk and fine chemicals, food and feed. Providers of (single-use) bioreactor systems across various scales, sensors for process monitoring, software tools and lab automation. People who deal with questions about feedstock flexibility, circular bioeconomy, sustainability of bioproduction.

■ Topics

Industrial-scale bioprocessing

Scale-down and scale-up approaches, industrial-scale operation, population heterogeneity, process monitoring and advanced control, modelling of industrial-scale processes, mixing and reactor characterization, process robustness and repeatability, integrated upstream and downstream operations.

Bioprocesses for a circular economy

Waste streams to value-added products, pretreatment, feedstock flexibility, scale-up / scale-down of biorefinery concepts, closed carbon cycles, smart bioproduction grids, decentralised production.

High-throughput bioprocessing and automation

Lab automation and robotics, automated screenings in bioprocess development, DoE, model based experimental designs, algorithm based operations and operational space characterisation, evolutionary strategies for strains and processes, communication trends for dynamic device operation and data flow, high-throughput strain engineering.

Single-use bioreactors and applications

Reactor types from μl to m^3 , sensors for single-use processes, continuous processing, scalability, sustainability, modular manufacturing, microbial and mammalian / plant cell cultures.

Cellular agriculture

Process analytical technologies (PAT)

Multiparameter analysis, non-invasive sensors, single-cell based monitoring, soft sensors, fault identification and diagnosis, multiposition measurements, data handling and exploration, monitoring and control of co- and mixed cultures.

Population Balances

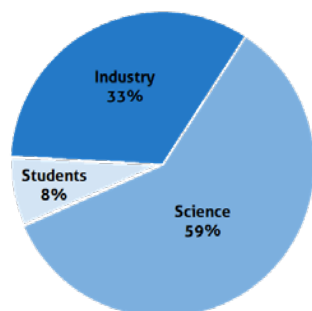
Microsystems for bioprocesses

Miniaturisation through microelectronics, physical sensors, biosensors, intelligent microwell plates, co-integration of microfluidics, lab-on-chip systems.

Special session: Biotechnology in Latin America

■ Delegate profile

BioProScale
Symposium 2018
(total attendance
274 delegates from
22 countries)



* Fees are subject to early booking until 13 February 2020

** IfGB is a brand of the Versuchs- und Lehranstalt für Brauerei in Berlin (VLB) e.V.

■ Organisers

The 6th BioProScale Symposium is jointly organised by the Technische Universität Berlin, Chair of Bioprocess Technology, and the Institute for Gaerungsgewerbe und Biotechnologie zu Berlin (IfGB).**

■ Conference days

30 March to 1 April 2020 (Mon–Wed)

With accompanying exhibition

■ Location

Langenbeck-Virchow-Haus
Luisenstr. 58/59
10117 Berlin (Mitte), Germany
www.langenbeck-virchow-haus.de

■ Language

Congress language is English.

■ Contact

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■ Attendance fee*

Participants from industry:	1150 € incl. VAT
Participants from scientific institutions:	600 € incl. VAT
PhD/MSc students:	310 € incl. VAT
Conference dinner:	75 € incl. VAT

■ Scientific Advisory Board

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■ Exhibition & Sponsoring

For information about the accompanying exhibition and sponsoring please contact Olaf Hendel, hendel@vlb-berlin.org

Check our website for regular updates:

www.bioproscale-conference.org

5th BioProScale Symposium 2018

4th BioProScale Symposium 2016

