



---

# 6<sup>th</sup> 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
- + Bioprocesses for a circular economy
- + High-throughput bioprocessing and automation
- + Single-use bioreactors and applications
- + Cellular agriculture
- + Process analytical technologies (PAT)
- + Population balances
- + Microsystems for bioprocesses
- + Special session: Biotechnology in Latin America

---

 [www.bioproscale-conference.org](http://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  $\mu\text{l}$  to  $\text{m}^3$ , 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

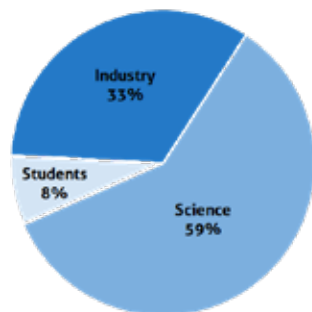
#### Microsystems for bioprocesses

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 6<sup>th</sup> 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](http://www.langenbeck-virchow-haus.de)

### ■ Language

Congress language is English.

### ■ Contact

#### Prof. Dr. Peter Neubauer

TU Berlin – Department of Bioprocess Technology  
Phone +49 30 314 72573  
[peter.neubauer@tu-berlin.de](mailto:peter.neubauer@tu-berlin.de)  
or IfGB Berlin, Olaf Hendel, [hendel@vlb-berlin.org](mailto:hendel@vlb-berlin.org)

### ■ Attendance fee\*

Participants from industry:	990 € incl. VAT
Participants from scientific institutions:	550 € incl. VAT
PhD/MSc students:	280 € incl. VAT
Conference dinner:	65 € incl. VAT

### ■ Scientific Advisory Board

Mario Birkholz (IHP Frankfurt/Oder, Germany)  
Anika Bockisch (Bio-PAT e.V., Germany)  
Wilfried Blümke (Evonik, Germany)  
Nicolas Cruz-Bournazou (Datahow, Switzerland)  
Frank Delvigne (University of Liege, Belgium)  
Regine Eibl-Schindler (ZHAW, Switzerland)  
Jörn Emmerich (SOPAT, Germany)  
Krist V. Gernaey (DTU, Denmark)  
Matthias Gimpel (TU Berlin, Germany)  
Thomas Grimm (ANIMOX, Germany)  
Peter Götz (Beuth University of Applied Sciences, Germany)  
Sebastian Hans (TU Berlin, Germany)  
Stefan Junne (TU Berlin, Germany)  
Ulrich Krühne (DTU, Denmark)  
Anja Lemoine (TU Berlin, Germany)  
Jerôme Morchain (INSA, France)  
Peter Neubauer (TU Berlin, Germany)  
Henk Noorman (DSM, The Netherlands)  
Marco Oldiges (Research Center Jülich, Germany)  
Nico Oosterhuis (Celltainer Biotech BV, The Netherlands)  
Saija Rasi (LUKE Research, Finland)  
Sebastian Riedel (TU Berlin, Germany)  
Rigoberto Rios Estepa (Universidad de Antioquia, Colombia)  
Stuart Stocks (LEO Pharma, Denmark)  
Ralf Takors (University of Stuttgart, Germany)  
Jochim Venus (ATB, Germany)

### ■ Exhibition & Sponsoring

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

Check our website for regular updates:

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



# 5<sup>th</sup> BioProScale Symposium 2018

# 4<sup>th</sup> BioProScale Symposium 2016

