

**ETH** zürich

Department of Biosystems  
Science and Engineering



15 November 2024

**TEDD Visit: ETH Department of  
Biosystems Science and  
Engineering D-BSSE**

Basel, Switzerland





## About ETH D-BSSE

D-BSSE focusses on the understanding, rational design and programming of complex biological systems from the nanoscale up to whole organisms. As an engineering department of ETH Zurich, D-BSSE advances basic and applied biological sciences with the overall goal of translating its research into biomedical and industrial applications, and promoting the development of new processes and products in the biotech, pharmaceutical and chemical industries.

To maximize the impact of this ambitious endeavour, the department was founded in 2007 in Basel, Europe's life science capital. In collaboration with partners from industry, hospitals and other academic institutions, the Basel location facilitates research applications in the emerging fields of precision medicine and personalized health, molecular systems engineering and data science.

In 2023, D-BSSE moved into a new research and laboratory building on campus Schallemtelli in close vicinity to the University of Basel, the University Hospital, and the Children's Hospital Basel.



## Event Website

### Organisers



Prof. Dr. Andreas Hierlemann  
ETH Zurich D-BSSE



Prof. Dr. Petra S. Dittrich  
ETH Zurich D-BSSE



Dr. Carolin Arndt  
ETH Zurich D-BSSE



Dr Markus Rimann  
ZHAW  
TEDD Competence Centre



Dr Katarzyna Kopanska  
ZHAW  
TEDD Competence Centre



## Program

- 9:30 - 10:00 **Doors Open & Registration**, Coffee & Gipfeli
- 10:00 - 10:10 **Welcome and introduction of TEDD**, Dr. Markus Rimman, ZHAW/TEDD Competence Center
- 10:10 - 10:25 **Welcome and introduction of D-BSSE**, Prof Dr. Andreas Hierlemann, BEL – Bio Engineering Laboratory
- 10:25 - 10:55 **Drug tests with different models on microfluidic platforms**, Prof. Dr. Petra S. Dittrich, Bioanalytics Group
- 10:55 - 11:25 **Microphysiological & microsensor systems**, Prof Dr. Andreas Hierlemann, BEL – Bio Engineering Laboratory
- 11:25 - 11:55 **NCCR “Antiresist”:** **Combatting antimicrobial resistance**, Prof. Dr. Urs Jenal, Biozentrum, University of Basel
- 11:55 - 12:00 **Q&A + Group Photo**
- 12.00 - 13:30 **Lunch**
- 13:30 - 14:30 **Laboratory Tour**
- **Single-cell facility**
  - **Cleanroom**
  - **Labs of research groups Dittrich and Hierlemann**
- 15.00 - 15.15 **Closing Remarks**, Markus Rimann / Andreas Hierlemann



## Information

**TEDD Partners have priority of registration.**

### Cost

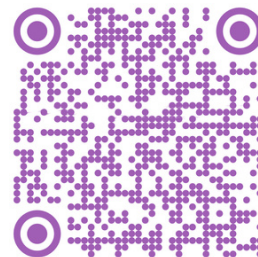
TEDD Partners (two participants)	No entrance fee
3rd and next TEDD Partner	CHF 40
Others	CHF 80

### Registration

Ends 8 November 2024



[Link to register](#)



### Contact

Katarzyna Kopanska  
katarzyna.kopanska@zhaw.ch



## Location

### ETH Zurich | D-BSSE

Department of Biosystems Science and Engineering

Building BSS | Klingelbergstrasse 48

4056 Basel

Switzerland

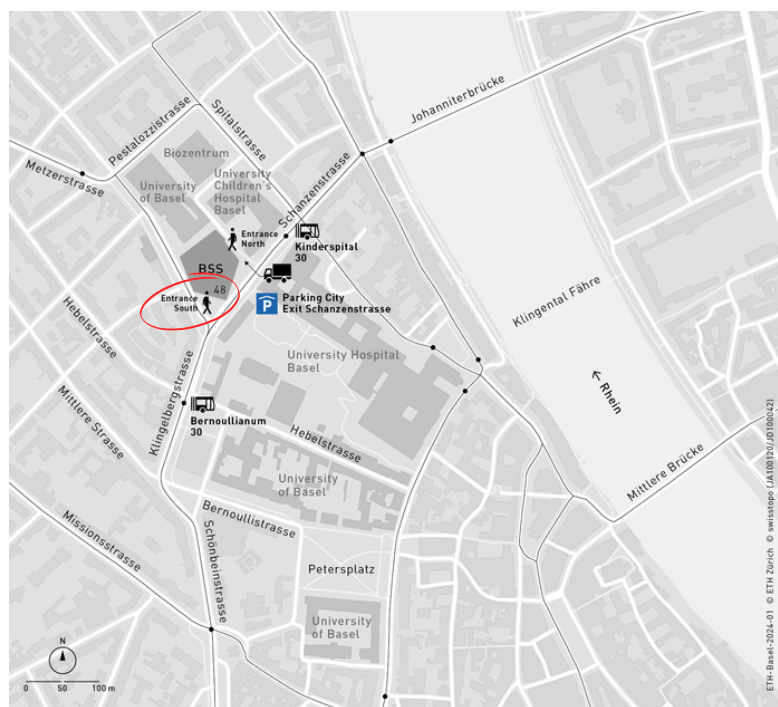
### Public Transport to D-BSSE Entrance South

Directions from [external page Railway Station Basel SBB](#)

- Take bus #30 towards "Badischer Bahnhof"
- Exit the bus at the stop "Bernoullianum" (4th stop)
- Follow Klingelbergstrasse downhill, cross it at the next crosswalk and arrive at Klingelbergstrasse 48 (intersection Schanzenstrasse/Klingelbergstrasse) at the **Entrance South** where the reception is.

### Car Park

As there are no car parking spaces on site, guests travelling by car must use the nearby [external page Parkhaus City](#). Plenty of bicycle spaces are available around the BSS building.





Tissue Engineering for Drug Development and Substance Testing

## About TEDD Competence Centre

TEDD (Tissue Engineering for Drug Development and Substance Testing) is an education, R&D and networking platform promoting the application of 3D organotypic technologies, with the core goal of replacing animal experimentation for therapies development.

Based in Switzerland, TEDD is focused on 3D for 3Rs. The community is composed of international members from academia, clinics, industry and non-profits.

Training of members is achieved through regular events at the national and international level, including workshops, symposia, company visits, scientific reviews and we provide a platform to generate research consortia, projects and grant applications.



[TEDD Website](#)