

Biotechnet Meet-Up 2024

18th January 2024, Bern

biotechnet Annual Meeting
switzerland



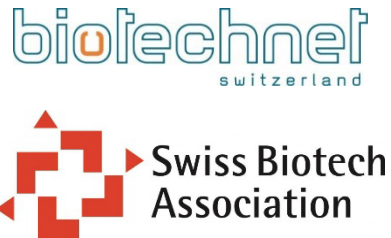
TEDD Competence Centre

Tissue Engineering for Drug Development and Substance Testing
Est. 2010

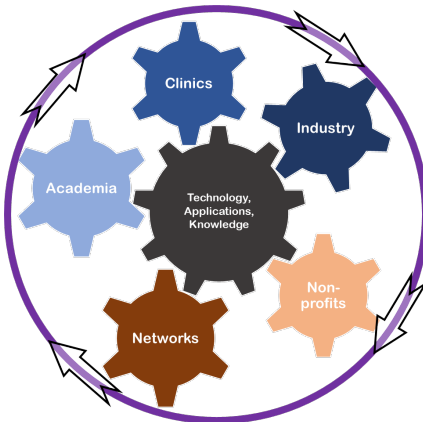
Network and Knowledge Base



International network



- Platform for i) education, ii) R&D and iii) networking
- Promotes applications of 3D organotypic technologies and MPS in various industries
- Aims at replacing animal experiments in academia and industry

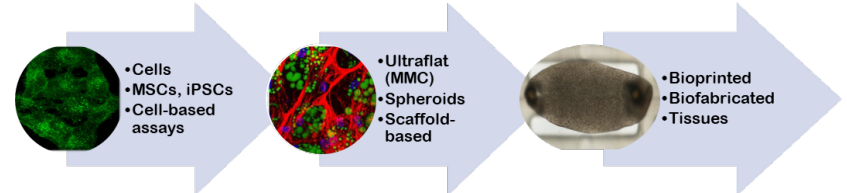


Competence Centre



Centre for Cell Biology and Tissue Engineering

Cell Physiology and Engineering Head: Prof. Jack Rohrer	Tissue Engineering Head: Prof. Michael Raghunath	3D Tissues and Biofabrication Head: Dr. Markus Rimann
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- Cells
- MSCs, iPSCs
- Cell-based assays

- Ultraflat (MMC)
- Spheroids
- Scaffold-based

- Bioprinted
- Biofabricated
- Tissues

TEDD Partners



- Research institutions, universities, UAS, hospitals, start-ups, large companies
- $\frac{2}{3}$ Industry, almost $\frac{1}{3}$ academia, associations, foundations

TEDD Strategic Alliances



Life Sciences and
Facility Management
Institute of
Chemistry and Biotechnology



3 R Swiss 3R
C C Competence
Centre
TEDD in Executive Board



termis.
TEDD in Continental Council

ALTEX
ALTERNATIVES TO ANIMAL EXPERIMENTATION
TEDD in ALTEX Edition



INTERNATIONAL MPS SOCIETY
CONNECT, EXCHANGE, EDUCATE

TEDD in Steering Group

Events in 2023

Zürich University
of Applied Sciences

zhaw

Life Sciences and
Facility Management

Institute of
Chemistry and Biotechnology



3 R Swiss 3R
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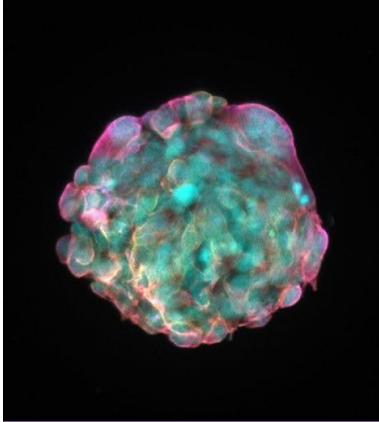
YOU ARE **INVITED** TO OUR **NEXT WORKSHOP!**
TOPIC: BRINGING STORY TO THE 3Rs
THURSDAY DECEMBER, 14TH

WHERE?
Hochschulstrasse 6, 3012 Bern H6-101

WHEN?
13:30 to 17:00 followed by a social Glühwein/Vin chaud/Vin brûlé at the bernese Christmas market



TEDD Events in 2023



7 June 2023

TEDD Visit:
University of Zurich
Department of
Pathology and
Molecular Pathology

Zurich, Switzerland



USZ Universitäts
Spital Zürich



8 September 2023

TEDD Annual Meeting
2023
Clinical applications of
advanced cell culture
models

Wädenswil, Switzerland



zhaw Life Sciences und
Facility Management



24 October 2023

TEDD Visit:
REGENHU

Villaz-St-Pierre, Switzerland



REGEN+U



23 November 2023

TEDD Visit:
Campus Biotech

Geneva, Switzerland



**campus
biotech**

Outlook 2024



**Microphysiological Systems
World Summit**
Seattle, Washington
Seattle Convention Center
June 10-14, 2024



BIC 2024

Zürich University
of Applied Sciences



Life Sciences and
Facility Management

Institute of
Chemistry and Biotechnology



 Biointerfaces
International Conference

August 20-23
2024

Muttenz, Basel, CH

 JOIN US!

Call for Abstracts

Contributed Talks - Submit by Mar 31, 2024

 Biointerfaces
International Conference

KEYNOTE SPEAKERS

Molly Stevens (virtual)
David Grainger
Suzie H. Pun
Massimo Mastrangeli
Chantal Pichon
Gregoire Altan-Bonnet
Khalid Salaita
Carole Bourquin

Covered topics

- mRNA therapeutics
- Immune disease interfaces
- Biosensing and diagnostics
- Mechanobiology and mechanoimmunology
- Biomaterials
- Bioprinting and biofabrication
- Science to market
- Computation and labs of the future

 University of Applied Sciences and Arts Northwestern Switzerland
School of Life Sciences



 Empa
Materials Science and Technology

 Life Sciences and
Facility Management
Institute of
Chemistry and Biotechnology



- **Exhibition: reduced prices**
- **Sponsoring**

TEDD Visits 2024

Zürich University
of Applied Sciences



Life Sciences and
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May 2024

TEDD Visit UPM
Biomedicals and
CSEM at Switzerland
Innovation Park (SIP)

Basel, Switzerland



UPM BIOMEDICALS
csem



3 July 2024

TEDD Visit
Wyss Zurich,
Translating Science
into Life

Zurich, Switzerland



Wyss Zurich



20-23 August 2024

Biointerfaces
International
Conference (BIC)

Muttenz, Switzerland



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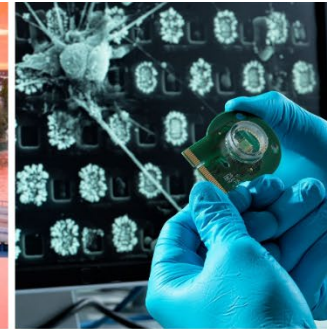
Technische Hochschule
Niederrhein für Gestaltung und Kunst



ETH zürich



Material Science and Technology



15 November 2024

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

Basel, Switzerland



ETH zürich

Sustainability



Goal of Tissue Engineering: improving patients quality-of-life

Sustainability comes into play:

- **Sustainable Biomaterials:** from natural sources, from waste materials, environmental-friendly synthesis
- **Sustainable cell cultures:** media, supplements, renewable cell culture consumables
- **Human tissue waste as a source of cells and extracellular matrix**
- **Usage of *in vitro* models instead of animal models:** Toxicity and safety assessment, drug development => combination with *in silico* models

➤ **Ongoing process**

Join us a Partner



- ✓ **Be informed:** about applications of organotypic models and MPS
- ✓ **Be connected:** join TEDD and TEDD Partner events
- ✓ **Be part:** in technology transfer and network projects

Contact us:

- info.tedd@zhaw.ch
- www.zhaw.ch/icbt/tedd



Enjoy the Meet-Up