Zurich University
of Applied Sciences

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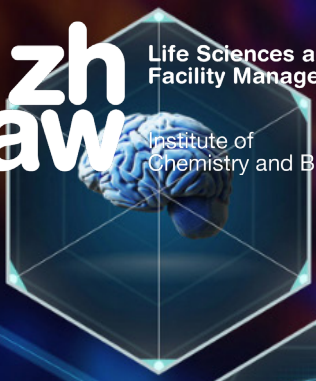
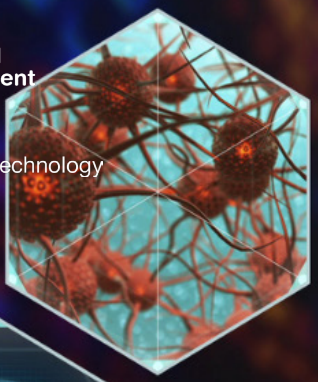
Life Sciences and
Facility Management

Institute of
Chemistry and Biotechnology





14th October 2021

TEDD Annual Meeting 2021

Cross-industrial applications of organotypic models

Campus Grüental, Wädenswil
Switzerland

Zurich Universities of Applied Sciences and Arts

Invitation

Recent advances in microphysiological systems (MPS) promise a global paradigm shift in drug development, diagnostics, disease prevention, and therapy. The expectation is that these systems will model healthy and various diseased stages and disease progression to predict toxicity, immunogenicity, ADME profiles, and treatment efficacies. MPS will provide unprecedented human-like physiological properties of in vitro models, enabling their routine application in the pharma industry and thus supporting reducing drug development costs by lowering the attrition rate of compounds.

Furthermore, we believe that promoting the cross-sectoral collaboration of academia and industry will further pave the way for widespread exploitation in precision diagnostics and therapy, disease prevention, and personalized nutrition. This will set a future-oriented alternative to animal testing, which is essential in the socio-political context.

During this TEDD Annual Meeting, we would like to showcase MPS application diversity across different industries. The aim is to foster the development of next-generation MPS based on 3D cell culture, organoid, and organ-on-chip technology.

To enable visionary projects and radical innovations, we will cover multidisciplinary fields and connect different industry sectors, like pharma, medtech, biotech, cosmetics, diagnostics, fra-

Dr Markus Rimann
Chair

Dr Katarzyna Kopanska
Project Manager

www.zhaw.ch/icbt/tedd

Program – Thursday, 14th October 2021

08.30	Registration and Welcome Coffee Foyer Aula GA 203
09.00	Welcome Address Prof Christian Hinderling Director of Institute of Chemistry and Biotechnology, ZHAW Zurich University of Applied Sciences, Switzerland
09.05	Opening of the meeting Dr Markus Rimann TEDD Competence Centre ZHAW Zurich University of Applied Sciences, Switzerland
09.20	3RCC research – status and future funding schemes Dr Jenny Sandström Swiss 3R Competence Centre, Switzerland
9.30	What it took to engineer scalable multi-tissue disease models Dr Olivier Frey InSphero AG, Switzerland
10.15	Study of liver disease using spheroid models: From histology to single-cell sequencing Prof Laura Suter-Dick University of Applied Sciences Northwestern Switzerland (FHNW), Switzerland
10.45	From organoids to tissues – automation in physiological microenvironments as a key enabler for industrial and clinical applications Dr Vincent Revol CSEM SA, Switzerland
11.15	Volumetric 3D printing Dr Damien Loterie Readily3D SA, Switzerland
11.45	Discussion

Program – Thursday, 14th October 2021

12:00	Networking Lunch & Exhibition Kalthaus GC 181
14.00	Harnessing muscle stem cells for regenerative medicine and cellular agriculture Prof Ori Bar-Nur ETH ZurichDepartment of Health Sciences and Technology, Switzerland
14.45	Cultivated meat: tissue engineering concepts enabling the development of food for future Dr Suman Das Mirai Foods, Switzerland
15.15	Nanomechanical measurements of tissues in situ for diagnosis and treatment optimization of solid tumors Dr Marija Plodinec ARTIDIS, Switzerland
15.45	CRISPR-Cas9-modified cells in skin equivalent: a game-changer for 3D skin models Michela Di Filippo University Hospital Zurich, Department of Dermatology, Switzerland
16.15	Final remarks and TEDD next steps Dr Markus Rimann TEDD Competence Centre, ZHAW Zurich University of Applied Sciences, Switzerland

TEDD Annual Meeting 2021 is recognised by the Swiss Association of Cantonal Veterinarians (VSKT) as 0.5 days continuing education in 3R principle (replacement, reduction, and refinement of animal experimentation).

www.zhaw.ch/icbt/tedd

Exhibitors

BioTek A part of Agilent

Cell Culture Technologies

CELLBOX SOLUTIONS GMBH

CELLnTEC ADVANCED CELL SYSTEMS

CORNING

EPFL

greiner BIO-ONE

HUBERLAB. committed to science

maxwell BIOSYSTEMS

mimiX Biotherapeutics ORCHESTRATING BIOLOGY

MOLECULAR DEVICES

OLYMPUS

OLS OMNI Life Science

Quantum Design EUROPE

RUWAG DIAGNOSTICS LIFE SCIENCE

STEMCELL™ TECHNOLOGIES

3RCC Swiss 3R Competence Centre

tissuelabs

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Further Details

Required for participation is a valid Covid Certificate and an ID.

Costs

TEDD Partner (two participants):	FREE
TEDD Partner (third and next participant):	CHF 80.-
Standard fee:	CHF 160.-
Students:	CHF 80.-

Registration: www.zhaw.ch/icbt.tedd

Deadline: 1. October 2021

Contact

Dr Katarzyna Kopanska
E-Mail: katarzyna.kopanska@zhaw.ch

Venue

ZHAW School of Life Sciences
and Facility Management
Campus Grüental, Aula GA 203 (talks)
and Kalthaus GC 181 (exhibition)
Grüentalstrasse 14, P.O. Box
8820 Wädenswil
+ 41 58 934 54 29

www.zhaw.ch/icbt/tedd

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