



CAAT-Europe's Information Day on



Biology-inspired Microphysiological Systems (MPS) to advance Medicines for Patients Benefit

Time:	17 June 2019, from 9:00 am to 3:30 pm
Venue:	Centre for Entrepreneurship, EINS (Co-Working Space) Technische Universität Berlin Ernst-Reuter-Platz 1, 10587 Berlin (https://goo.gl/maps/4dANSvzMgo22)
Registration:	to register, please contact caat-eu-2@uni-konstanz.de

The CAAT-Europe Network and the Centre for Entrepreneurship (CfE) of the Technische Universität Berlin (Germany) invite you to the CAAT-Europe Info Day on June 17th, 2019 (9am-3pm) held at the CfE's Co-Working Space, EINS (Entrepreneurship, Innovation, Network, Sustainability).

The Information day on “**Biology-inspired Microphysiological Systems (MPS) to advance Medicines for Patients Benefit**” will host key international experts from academia, regulatory agencies, and industry. Microfluidic microphysiological systems (also referred to as tissues-on-a-chip, organ-on-a-chip, multi-organ-chip, human-on-a-chip, body-on-a-chip or patient-on-a-chip tools) are considered an enabling technology for the development of approaches to reliably predict the safety and efficacy of novel drug candidates prior to their use in humans. A transatlantic toxicology think tank involving academia, industries and regulatory bodies from all over the world reviewed the status quo of MPS in June 2015 in Berlin (Marx et al 2016, ALTEX 33, 272-321). Now, four years later stakeholders meet again in Berlin to update the review and to state the roadmap towards the reduction and replacement of animals by MPS tools for the benefit of patients more precisely. The information day will make a snapshot of the important aspects of this upcoming think tank available to the public.

The event is free of charge for any interested audience. Due to space limitation, only registered participants will be allowed to attend the information day.

Agenda

09.00 – 09.30

Introduction by the Organizers

Florian Hoos (Centre for Entrepreneurship, Technische Universität Berlin – event host, 7-8 min)

Marcel Leist (Centre of Alternatives to Animal Testing –Europe – event host, 7-8 min)

Adrian Roth Roche (CAAT MPS workshop Organizer, 15 min)

09.30 - 10.00

Challenges in Predictive Toxicology – what can MPS bring to the table

Thomas Hartung, Johns Hopkins Bloomberg School of Public Health, USA

10.00 – 10.30

The NIH Tissue Chips for Drug Screening Program: Current and Future Directions

Danilo A. Tagle, NCATS, National Institute of Health, USA

10.30 - 11.00

Highlights of tissue chip models, developed at Wyss Institute

Donald E. Ingber, Wyss Institute for Biologically Inspired Engineering at Harvard, USA

11.00 - 11.30

DARPA Integrated 10-Organ System Using a Microwell System

Linda G. Griffith, Massachusetts Institute of Technology, USA

11.30 – 12.00

hDMT and Organ-on-Chip networking in Europe

Janny van den Eijnden, human Organ and Disease Model Technologies, The Netherlands

12.00 – 13.00 Lunch

13.00 -13.15

RESTORE – introducing a European Large Scale Research Initiative to accelerate Delivery of Advanced Therapies through MPS Tools

Petra Reinke, Charité, Berlin Center for Advanced Therapies & BIH-Center for Regenerative Therapies (BCRT), Germany

13.15 – 13.45

Pharmaceutical Industry Perspective on Organ-on-a-Chip technology

Thomas Singer, Roche Pharmaceuticals, Switzerland

13.45 - 14.15

FDA Perspectives on Tissues-on-Chips

Donna Mendrick, Food and Drug Administration, USA

14.15 – 14.45

Commercializing integrated Microphysiological Systems: current Status and future Potential

Uwe Marx, TissUse GmbH a spin-off of the Technische Universität Berlin, Germany

14.45 - 15.15

GO Bio Transfer at the Centre for Entrepreneurship – creating an environment for numerous TissUse-like spin-offs

Christine Oesterhelt, Centre for Entrepreneurship of Technische Universität Berlin, Germany

15:15 – 15:30

Needs meet seeds; updates of user-driven MPS research project in Japan

Takafumi Akabane, Stem Cell Evaluation Technology Research Association, Japan

+++ End of the Information day +++

Coffee break

16.00 – 19:00

**CAAT-Europe board meeting at the same venue
(Participation on invitation only)**

Information about the hosts:

- **The Centre for Alternative to Animal Testing (CAAT)-Europe**, housed at the University of Konstanz (UKN), is a no-profit joint venture between UKN and the Bloomberg School of Public Health at Johns Hopkins University (BSPH-JHU) at Baltimore (USA), the world's largest research organization for public health and preventive medicine.
CAAT-Europe coordinates transatlantic activities aimed at promoting new approach methods (NAM) in toxicology.
CAAT-Europe's mission is to:
 - Provide a platform for communication and networking among stakeholders (from industry, regulatory agencies, NGOs, and academia) to develop new concepts in regulatory toxicology.
 - Coordinate events (information days, symposia, workshops, and scientific sessions) on relevant topics in the area of New Approach Methodologies (NAMs) and regulatory toxicology, at international conferences (e.g. SOT, ESTIV and EUROTOX congresses).
 - Develop strategic projects with sponsors to promote humane science and NAMs in toxicology and biomedicine, e.g. road-maps for read-across approach, the threshold of toxicity concern' concept, etc.
 - Set up transatlantic consortia for international research projects on alternative methods (e.g. EU-ToxRisk project).
 - Support the publication of reviews and original papers, and sponsoring of high impact field-related journals, e.g. ALTEX.
 - Develop a joint education program between Johns Hopkins and the University of Konstanz, e.g. student exchange, e-learning, collaboration to international graduate school (KORSB–chemical biology).
 - Provide scientific consultancy in legal text and guidelines as an official external expertise service provider in the areas of science and technology options assessment (STOA) for the European Parliament, and offering a lobbying platform for best available science.

For more information and contacts, please consult our webpage:

<https://www.biologie.uni-konstanz.de/leist/caat-europe/>

- **The Centre for Entrepreneurship (CfE)** is TU Berlin's service centre for all activities regarding entrepreneurship and provides additional innovation-and transfer consulting support. The overall goal is to transfer innovative ideas and technologies from academia into society. We teach, research, and enable entrepreneurship as well as intrapreneurship and strive for a triple impact approach, i.e. economical, ecological, and social impact.
The CfE is a joint institution combining the chair of Entrepreneurship and Innovation Management (EIM) and the department for practical start up and transfer support. The latter consists of an incubation and a transfer team supporting start-up-activities, matching academic and enterprise partners to enable joint research projects, and assisting transfer related grant applications. Overall, the CfE offers customized support for transfer projects at the interphase between academia, economy and start-ups.

For more information, please consult our webpage:

<https://www.entrepreneurship.tu-berlin.de>