



Tuesday 23, August 2022

Opening presentations on Next Gen Organ-on-Chip & Organoids

- 9:30 **Welcome & registration**

- 10:00 **Welcome to the 2nd workshop on Next Gen Organ-On-Chip & Organoids**
Alexandre Pauchard, CEO, CSEM

- 10:10 **To be confirmed**
Matthias Mueller, Associate director, Chemical Biology and Therapeutics, Novartis

- 10:35 **Open technology platforms to accelerate organ-on-chip adoption**
Ronald Dekker, Senior Research Scientist, Philips Research

Cells & Organoid Handling session

- 11:00 **Standardized and automated organoid workflows from production to end-point analysis**
Stéphanie Boder-Pasche, Project Manager, CSEM

- 11:15 **Opening new perspectives with 3D Bioprinting**
Mauro Petretta, Senior Scientific Advisor, RegenHU

- 11:30 **The Future Of Bio-Design: Sound Induced Morphogenesis**
Marc Thurner & Tiziano Serra, CEO & CSO, mimiX biotherapeutics

- 11:45 **Resistive pulse sensing, a solution for organoids dispensing**
David Bonzon, CTO, SEED Biosciences

- 12:00 **Opening of the exhibition**
Vincent Revol, Head R&BD Life Science Technologies, CSEM

- 12:15 **Lunch**

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Emerging technologies session

- 13:45 **Organ-on-Chip Open Technology Platforms**
Andries van der Meer, Associate Professor, University of Twente
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- 14:00 **Beating organs-on-chip for human organs and diseases modelling: advanced preclinical tools for screening drugs and medical devices**
Paola Occhetta, CEO, BiomimiX
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- 14:15 **The motility trap assay: new approach for nematode-on-chip technology**
Lucien Rüfener, CEO, INVENesis
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- 14:30 **Physical cytometry of 3D tumor spheroids: Evaluation in LoVo spheroids treated with crizotinib**
Domenico Andrea Cristaldi, Marketing Specialist, CellDynamics
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- 14:45 **3D CoSeedis™—In chip assays - revolutionizing predictiveness of preclinical testing**
Arne-C. Faisst, CEO, abc biopply AG
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- 15:00 **Coffee**

Brain session

- 15:45 **Human brain-on-a chip: an in vitro platform for drug discovery and toxicity screening**
Adrien Roux, Associate Professor, Tissue Engineering Laboratory, HEPIA Institut des Sciences et Technologies Industrielles (inSTI)
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- 16:00 **Next Generation Micro Electrode Array Devices**
Jannis Meents, Head of Research Projects and Predevelopment, Multi Channel Systems MCS GmbH
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- 16:15 **Multiple facets of cerebral organoids: a tool for scientific research and drug testing**
Nikolay Zhukovsky, CEO, Neurix
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- 16:30 **Organs on chip for neuroscience and building blocks for multi-organs systems**
Dr Thibault Honegger, CEO & Co-founder, Netri

16:45 KEYNOTE SPEAKER

Human Organ Chips: Clinical Mimicry in Preclinical Models
Don Ingberg, Founding Director, Wyss Institute for Biologically Inspired Engineering at Harvard University

17:30 **Apero Riche**

19:00 **End of the first day**



Wednesday 24, August 2022

Application session

- 8:45 **Welcome to Biotech Campus**
Benoît Dubuis, Director, Campus Biotech

- 9:00 **Application of microphysiological systems and organoids for safety assessment: progress and challenges**
Sebastian Prill, Associate Principal Scientist, Astra Zeneca

- 9:15 **Philip Morris' Applications and Perspectives on Organs on a Chip & Microphysiological Systems**
Kasper Renggli, Senior Scientist, PMI

- 9:30 **ATMP/Biologics: how to Develop a Moving Target?**
Vincent Ronfard, CSO, CUTISS

- 9:45 **Organs-on-Chip of the Lung Parenchyma**
Oliver Guenat, Head Organs-on-Chip Technologies, Artorg Center, University of Bern

- 10:00 **Coffee**

Upscaling & standardization session

- 10:30 **The role of standards in establishing the scientific credibility and regulatory relevance of organ-on-chip**
Evangelos Daskalopoulos, Lead scientist on OoC, European Commission Joint Research Centre (JRC)

- 10:45 **Organ-on-a-Chip: on the path to the Promised Land**
Claudia Gärtner, CEO, microfluidic ChipShop

- 11:00 **Principles of in vitro nutrition for cell therapists**
Ferruccio Messi, President & founder, Cell Culture Technologies

- 11:15 **Improved biochemical & biomechanical control of the microenvironment to generate more physiologically relevant models**
Arnaud Cartier, Marketing Director, Fluigent

- 11:45 **Lunch**

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13:00

IGNITE PRIZE AWARDED BY ROCHE ITB



13:15 KEYNOTE SPEAKER

Engineering organoids-on-a-chip

Matthias Lutolf, Full Prof., Institute of Bioengineering, EPFL and Scientific Director, Roche Institute for Translational Bioengineering (ITB)

Liver session

14:00 *Mimicking liver fibrosis in a microfluidics system*

Prof. Laura Suter-Dick, Molecular Toxicology, School of Life Sciences

14:15 *Why microtissue spheroid became a centerpiece in scalable organ-on-chip technologies*

Olivier Frey, Head of Technologies & Platforms, Insphero

14:30 *Advanced organoid models in precision health*

Nathalie Brandenburg, co-CEO & Founder, SUN Bioscience

14:45 *Enabling Unlimited Cell Therapies*

Patrick Kugelmeier, Director of Science, Kugelmeiers

15:00 *Closing words*

Organization committee: Erika Gyroväry, Gilles Weder, Samantha Paoletti, Christoph Joder, Vincent Revol

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