

1st Helsinki Organ-on-a-chip meeting

“From organoids to organisms”

Monday 11.12.2023, 9-17 EET

Lecture Hall 1, Biomedicum 1 (Haartmaninkatu 8), Helsinki, Finland

Hybrid meeting for better sustainability & reach



Meeting program:

Session 1: (Chairs: Heidi Haikala & Riikka Mölsä)

9:15 - 9:20 **Welcoming words from the organizing committee**

9:20 –10:20 Keynote Speaker 1: **Prof. Peter Loskill (Onsite)** Micro OrganoLab & Chair of the European Organ-on-a-chip association (EUROoCS), University of Tübingen, Germany
Recapitulating Complex Human Tissues using Organ-on-chip and Organoid Technologies

10:20 – 10:50 Speaker 2: **Adj. Prof. Šárka Lehtonen (Onsite)** University of Eastern Finland, Finland
Brain disease modeling on-a-chip

--- 10:50– 11:10 Coffee break & Exhibition ---

Session 2: (Chairs: Iris Lähdeniemi & Bassel Alsaed)

11:10 - 11:40 Speaker 3: **Prof. Maria Tenje (Onsite)** SciLife Lab, Uppsala University, Sweden
Microstructured hydrogels for organs-on-chip

11:40 - 12:15 Partner flash talks **(Onsite)**:

- **Sebastien Mosser, Finnadvance:**
Scalable organ-on-chip platform for modeling vascularized tissue
- **Johanna Englund, FIN3R:** *FIN3R- advancing the 3R's in biomedical research*
- **Fernando Damiani, Formulatrix:** *Innovation in Liquid Handling*
- **Timo Korjamo, Orion Pharma:** *Pharma perspective to using alternative models in drug development*
- **Susanne Vainio, Euro-Biolmaging:** *Your gateway to imaging excellence*

---12:15 - 13:00 Lunch Break & Exhibition ---

Session 3: (Chair: Prof. Pasi Kallio)

13:00-13:30 **Short talks from early career scientists** (selected from abstracts)

13:00-13:10 **Janne Koivisto**, Faculty of Medicine & Health Technology, Tampere University:
Biophysics of osteoblast response to β -tricalcium phosphate–collagen composite

13:10-13:20 **Mathias Busek**, Hybrid Technology Hub, University of Oslo
Pump-less recirculation OoC (rOoC) platform for immune-enabled disease modelling on-chip

13:20-13:30 **Oliver Degerstedt**, University of Helsinki
Microchip approaches to study diffusion or metabolism of chemotherapeutic drugs in human liver

13:30– 14:00 Speaker 4: **Prof. Susanna Miettinen (Onsite)** University of Tampere, Finland
Development of vascularized microphysiological models with human cells

14:00 – 14:20 Speaker 5: **Dr. Heidi Haikala (Onsite)** University of Helsinki, Finland
Patient-tumor derived organoids and organ-on-a-chip models in preclinical research & precision medicine

---14:20- 14:30 Short Biobreak ---

Session 4: (Chair: Prof. Susanna Miettinen)

14:30 – 15:00 Speaker 6: **Prof. Pasi Kallio (Onsite)** University of Tampere, Finland
Hypoxic and Physiological Oxygen Environments in Organ-on-chip Devices: Measurement and Control

15:00- 15:50 Keynote Speaker 2: **Prof. Roger D. Kamm (Online)** Professor of Biomedical Engineering, MIT, Boston, USA
Neurovascular platforms derived from primary or iPS cells for modeling blood-brain barrier function and neurological disease

---15:50-17:00 Poster session, exhibition, networking & refreshments---

Organizing committee:

Heidi Haikala, Elena Kremneva, Iris Lähdeniemi, Bassel Alsaed, Hanna Laitinen, Riikka Mölsä, Iina Kaisaniemi, Kasim Kaader, Tuulia Pietilä, Michaela Feodoroff

Contact: heidi.haikala (at) helsinki.fi

Meeting website & registration: www.hooc.info

The meeting is made possible by:



iCAN



UPM BIOMEDICALS