

PROGRAM 6th ANNUAL hDMT CONSORTIUM MEETING 25 November 2022

Venue: Eenhoorn Meeting Center Amersfoort – [STUDIO33](#)
Barchman Wuytierslaan 2, 3818 LH Amersfoort

Chair: Amalia Dolga, University of Groningen

09:00 – 9.30 Walk in with coffee and tea

09.30 – 9.45 **Opening and welcome**

Amalia Dolga, RUG

Christine Mummery, Chair Executive Board hDMT / LUMC

09.45 – 10.00 **hDMT today and tomorrow**

Janny van den Eijnden-van Raaij, hDMT

10:00 – 10.30 **Keynote Lecture**

Organ-on-Chip technology development at hDMT: from single chips to standardized platforms
Jaap den Toonder, TU Eindhoven

Special Topics

10.30 – 10.45 Metabolism in Organ-on-Chip models

Dirk Lefeber, Radboudumc

10.45 – 11.00 hDMT theme group Bone-on-Chip: challenges and opportunities

Nathalie Bravenboer, Amsterdam UMC

11.00 – 11.30 Break

hDMT Research Highlights

11.30 – 11.45 Open technology platforms for Organs-on-Chip: the Moore4Medical project

Massimo Mastrangeli, TU Delft

11.45 – 12.00 Engineered 3D Vessels-on-Chip to model inflammatory responses using hiPSC-derived vascular cells and monocytes

Merve Bulut, LUMC

12.00 – 12.15 Intestine-on-Chip: establishment of human intestinal Organoids-on-Chip for drug absorption & metabolism studies

Marit Keuper-Navis, TNO

12.15 – 12.30 Cancer-on-Chip for chemotherapy testing in breast cancer tissue ex vivo

Zofia Komar, Erasmus MC

12.30 – 13.30 Lunch

hDMT Research Highlights – continued

- 13:30 – 13:45 An open-top OoC-platform to generate a fully hiPSC-derived model of the outer blood-retinal barrier with a functional microvascular network
Tarek Gensheimer, UTwente
- 13.45 – 14.00 The characterization of Liver-on-Chip to study nutraceuticals in non-alcoholic fatty liver disease (NAFLD)
Victoria Palasantzas, UMCG
- 14.00 – 14.15 Falsifying computational models of angiogenesis through quantitative comparison of in vitro to in silico endothelial cell networks
Tessa Vergroesen, Leiden University
- 14.15 – 14.30 Interplay between interstitial flow and TGF- β during lung cancer invasion of spheroids embedded in a microfluidic chip
Zaid Rahman, TU Delft
- 14.30 – 15.00 **Keynote Lecture**
Opportunities and challenges for a Multi-Organ-on-Chip platform to predict pharmacokinetics
Roos Masereeuw, Utrecht University
- 15.00 – 15.30 Break
- hDMT Research Highlights – continued**
- 15.30 – 15.45 Modelling the support function of vascularized lung endothelial cells for alveolar progenitor function using an open-top Alveolus-on-Chip
Abilash Ravi, LUMC
- 15.45 – 16.00 One-line-fits-all: a knockdown strategy for rapid, generic and versatile modelling of muscular dystrophies in 3D tissue-engineered skeletal-muscle
Stijn in 't Groen, Erasmus MC
- 16.00 – 16.15 **Prize ceremony 'PhD student Spotlight competition'**
- 16:15 – 17.30 Drinks and networking