

# UPM BIOMEDICALS 6TH ANNUAL CONFERENCE



## PROGRAM (TIMES ARE EET, GMT+2)

### Day 1 – 17th of September

<b>09:45</b>	<b>Access open for the seminar</b>
<b>10:00</b>	<b>Welcome and conference opening</b> <i>Johana Kuncova-Kallio, Director, UPM Biomedicals</i>
<b>10:30</b>	<b>Leveraging high content and live cell imaging in primary and complex patient-derived models for drug repurposing and drug discovery</b> <i>Dr. Brinton Sheashore-Ludlow - ONLINE SPEAKER</i> Brinton Seashore-Ludlow received her PhD from KTH. She then did a Postdoc in the lab of Stuart Schreiber at the Broad Institute of Harvard and MIT. Her work there focused on elucidating predictors of drug response in a large-scale cell line profiling dataset. Brinton then moved to the Chemical Biology Consortium Sweden at SciLifeLab. Currently Brinton is an assistant professor in the team headed by Olli Kallioniemi at SciLifeLab. Her work focuses on high content imaging in primary cells
<b>11:15</b>	<b>3D patient -derived cell cultures for functional precision cancer medicine</b> <i>Dr. Vilja Pietiäinen - ONLINE &amp; ONSITE SPEAKER</i> Vilja Pietiäinen is a senior scientist and a team leader at the Institute for Molecular Medicine Finland (FIMM, HiLIFE, University of Helsinki). She has Ph.D. in virology/cell biology in 2005 (University of Edinburgh, U.K.; University of Helsinki, Finland), and adjunct professorship in cellular and molecular biology. Her research focuses on the functional precision medicine of solid tumors. She is particularly dedicated to high-content imaging and ex vivo drug testing of patient -derived cancer cells in 3D.
<b>12:00</b>	<b>Lunch Networking</b> Join Conversation Room with our speakers
<b>13:00</b>	<b>Recapitulating complex human biology in vitro: Organ-on-chip systems as next-generation microphysiological platforms</b> <i>Dr. Peter Loskill - ONLINE SPEAKER</i> Peter Loskill is assistant professor at Eberhard-Karls-University-Tübingen, head of innovation field at Fraunhofer IGB (Stuttgart, Germany) and vice-chair of the European-Organ-on-Chip-Society (EUROoCS; <a href="https://www.euroocs.eu/">https://www.euroocs.eu/</a> ). Dr. Loskill graduated from Saarland University with a PhD in Physics and spent three years as a postdoc at UC Berkeley. In 2015, he was named as one of Technology Review's "Innovators under 35 Germany" and awarded a FraunhoferATTRACT Grant. His $\mu$ Organo lab ( <a href="http://loskill-lab.com/">http://loskill-lab.com/</a> ) combines approaches from engineering, biology, physics and medicine to generate next-generation tissue models recapitulating complex human biology in vitro.
<b>13:45</b>	<b>Performance characteristics of different ex vivo drug screening methods for diagnostic therapy efficacy modelling in rare cancers.</b> <i>Dr. Juha Rantala - ONLINE SPEAKER</i> Cancer researcher and life science entrepreneur with 15+ years' experience in contract research focusing on high-throughput biology. Highly experienced in cell based drug screening, translational cancer research and tech development. Founder and CEO of Misvik Biology Oy and a Lecturer at University of Sheffield and Weston Park Cancer Center (Sheffield, UK). Before starting Misvik worked as a Research Assistant Professor at Knight Cancer Institute (Portland, Oregon) and as a Research Scientist at VTT Medical Biotechnology.

**14:30**

**Coffee  
Networking**

Join Conversation Room with our speakers

**15.15**

**Challenges for Cell Therapy Bioprocessing: Scale-up or Scale-out**

*Dr. Karen Coopman - **ONLINE SPEAKER***

Working in cell therapy manufacture, the aim of Dr Coopman's research is to generate a viable stem cell bioprocess such that clinically relevant cell numbers can be produced whilst ensuring product potency, purity and safety. Developing scalable culture systems and improving methods of cell preservation are the current focus. A Reader in Biological Engineering at Loughborough University, she is the Director of the Centre for Doctoral Training in Regenerative Medicine and Chair of ESACT UK.

**16.00**

**Transporting human neural organoids in artificial extracellular matrices**

*Dr. Jan Bruder - **ONLINE SPEAKER***

Dr. Jan M. Bruder is a postdoc at the Max Planck Institute for Molecular Biology in Münster Germany. His focus is on iPS-based compound screening in human neurodegenerative disease models. He has worked in stem-cell automation and has a background in artificial organs during his work in the ABC (artificial organs, biomaterials, and cells science) program, including cell-material interactions, tissue engineering, and medical devices. Dr. Bruder earned his PhD in Biology at Brown University.

**16:45**

**End of Day 1**

**Day 2 – 18th of September**

**09:30**

**Coffee and Registration  
Networking**

Join Conversation Room with our speakers

**10:00**

**Introducing bacteriophages used to treat bacterial infections**

*Dr. Mikael Skurnik - **ONLINE & ONSITE SPEAKER***

Mikael Skurnik, Professor Emeritus University of Helsinki, Finland. PhD (biochemistry) 1985, University of Oulu, Finland. Postdoc 1985-7 Umeå University, Sweden. 1987-2002 different posts at University of Turku and Academy of Finland. Professor of Bacteriology at University of Helsinki 2002-2020. Studied virulence factors of Yersinia-bacteria, molecular biology of bacteriophages and since 2013 directed the project on starting phage therapy in Finland. He has supervised 19 PhD-theses, and published >250 scientific articles.

**10:45**

**Developing Cellulose-Based Matrix Scaffolds for “Patient-derived Breast Cancer Explant Cultures with Tumor Immune Microenvironment” TIME-PDECs**

*Dr. Pauliina Munne - **ONLINE & ONSITE SPEAKER***

Pauliina Munne, PhD, is a Senior Scientist at the research group of Research Director Juha Klefström at University of Helsinki, Translational Cancer Medicine Program. She has over 10 years of experience from the conventional and novel 3D tissue culture techniques. She has developed a unique ex vivo model for hormone receptor positive breast cancer in collaboration with molecular material scientists from Aalto University.

**11:30 Freeze-drying of biomaterials: Impossible made possible with nanofibrillated cellulose**

*Dr. Arto Merivaara - **ONLINE & ONSITE SPEAKER***

Arto Merivaara is a PhD student at the Faculty of Pharmacy, University of Helsinki. He graduated as a MSc in Pharmacy in 2019 and started his PhD studies right after. He is highly interested in material sciences and how to apply biomaterials in pharmaceutical applications. Merivaara has worked with freeze-drying of biomaterials since 2016 and he was awarded with Emil Aaltonen foundation Young researchers grant in 2020 to continue his PhD thesis research regarding the same topic.

**12:15 Competition announcements + poster presentation  
Closing remarks**

**12:30-13:00 Lunch  
Networking**

Join Conversation Room with our speakers

[www.upmbiomedicals.com/conference2020](http://www.upmbiomedicals.com/conference2020)