Scientific Program

Monday, 17th February

12:00	Arrival
13:00	Thomas Rudel Welcome and Introduction
	Session 1: Respiratory Tract I (Chair: K. Gadekar & A. Akash)
13:30 – 14:00	Isabelle Dupin, University of Bordeaux Using patient-derived adult stem cells to build pulmonary organoid models for chronic obstructive diseases understanding
14:00 - 14:30	Vivek Thacker, University Clinic Heidelberg Microphysiological models for Tuberculosis
14:30 – 14:45	Camilla Tvedt Ekanger, University of Bergen Comparison of Air-Liquid Interface transwell and Airway Organoid Models for Human Respiratory Virus Infection Studies
14:45 – 15:00	Mara Fischer, Charité – Universitätsmedizin Berlin Moving towards an immunocompetent human lung organoid model for Streptococcus pneumoniae infection
15:00 - 16:30	Poster Session/Coffee Break
16:30 – 17:00	Perspective: Jennifer Rosowski, Charité – Universitätsmedizin Berlin Emerging 3R networks in Berlin
	Session 2: Blood-Brain-Barrier (BBB) (Chair: M. Guedes, M. Neyazi)
17:00 – 17:30	Maria Bernabeu, EMBL Barcelona Building bioengineered models to understand BBB disruption in cerebral malaria
17:30 – 17:45	Nadine Vollmuth, University of Alabama Estrogen signaling contributes to Group B Streptococcal disruption and invasion of brain endothelial cells
17:45 – 18:00	Fatemeh Nosratabadi, University of Würzburg The Neisseria meningitidis Capsule Plays a Crucial Role in Impairing Efflux Transporter Function in Brain Endothelial Cells
18:30	Get-Together

Tuesday, 18th February Part 1

08:30	Arrival
	Session 3: Infection and Immunity (Chair: T. Bruchhardt & F. Nosratabadi)
09:00 - 09:30	Sina Bartfeld , TU Berlin Infection, Innate Immune Signaling and Cancer in the Gut - Organoids as Model
09:30 - 10:00	Thaddeus Stappenbeck , Cleveland Clinic Intestinal stem cells – current challenges and new approaches to function
10:00 - 10:15	Daniela Zdzieblo , Fraunhofer TLZ-RT/University Clinic Würzburg Advanced <i>in vitro</i> models for infection studies of the small intestine
10:15 - 10:30	Claire Charlet-Faure, CelVivo Refining Disease Models: Reproducible and <i>In Vivo</i> -Like Cultures with ClinoStar
10:30 - 11:00	Coffee Break
	Session 4: Urothelial Models (Chair: L. Kafuri Cifuentes & P. Köhling)
11:00 – 11:30	Jennifer Rohn , University College London Good guys or bad guys? – a 3D human urothelial microtissue model to study pathogens and commensals in urinary tract infection
11:30 - 11:45	Pargev Hovhannisyan, University of Würzburg Dual RNA-seq unveils novel host-pathogen interactions between Chlamydia trachomatis and human primary fallopian tube cells
11:45 - 12:15	Alfredo Pezzicoli, GSK Advancing Human 3D Epithelial In Vitro Models to Study Bacterial Pathogenesis and Evaluate Immune Interventions
12:15 – 12:30	Helene Mehling , University of Würzburg Advanced human UV mucosal infection models as validation tools for vaccine development

Tuesday, 18th February Part 2

12:30 - 14:00	Lunch
	Session 5: Respiratory Tract II (Chair: A. Arold & A. Binder-Beste)
14:00 – 14:30	Dorothee Viemann , University Clinic Würzburg Age- and cell-type-specific metabolic programming shapes respiratory and systemic immune responses against the Influenza A virus
14:30 - 15:00	Leoni Swart , University of Basel Human lung microtissues to study bacterial infection and treatment
15:00 – 15:15	Susanna Ricci (via Zoom), University of Siena Air-Liquid Interface respiratory model for infection studies with Streptococcus pneumoniae
15:15 – 15:30	Mindaugas Paužuolis , Innsbruck Medical/University of Würzburg SARS-CoV-2 tropism to intestine but not gastric epithelial cells is defined by limited ACE2 expression
15:30 - 16:15	Poster Session/Coffee Break
	Session 6: Models and Therapy (Chair: M. Fischer & L. Stelz)
16:15 –16:45	Tengku Ibrahim Maulana , Max Delbrück Center Berlin Reconstructing the tumor microenvironment on chip for cell therapy testing
16:45 – 17:00	Elena Ekrami , University of Würzburg Microglia infected with oncolytic vaccinia efficiently eliminated human neuroblastoma lines (SK-N-AS and SH-SY5Y) in cell and 3D culture models
17:00 – 17:15	Ayse Güven, Stemcell Technologies Airway Organoids and Advanced Tissue Models: Powerful Tools for Studying Host-Pathogen Interactions and Drug Discovery
18:00	Wine Tasting + Cold Cuts

Wednesday, 19th February

08:30	Arrival
	Session 7: Host Pathogen Interactions (Chair: T. Bruchhardt & P. Köhling)
09:00 - 09:30	Jerry Wells , University of Wageningen Stem Cell-Derived Organ and Tissue Models for Infection Studies
09:30 - 09:45	Maria Guedes, University of Würzburg An organoid-based model reveals a novel UPEC receptor in the prostate
09:45 - 10:00	Mastura Neyazi, University of Würzburg/TU Berlin Analysis of innate immune response of gastrointestinal epithelium to EPEC infection using human organoid-derived monolayers
10:00 - 10:15	Oliver Dietrich (via Zoom), University of Otago Phage DNA modification by arabinosyl-hydroxy-cytosine is widespread across host genera
10:15 – 10:45	Coffee Break
	Session 8: Skin Models (Chair: H. Mehling & M. Neyazi)
10:45 – 11:15	Florian Groeber Becker, Fraunhofer TLZ-RT Stromal matrixes for Epithelial Tissue Engineering
11:15 – 11:30	Markus Engstler, University of Würzburg Tissue tropism in African trypanosomes
11:30 – 11:45	Fiorenza Rancan , Charité – Universitätsmedizin Berlin Ex vivo human skin infection models for the development of novel antimicrobial treatments
11:45	Poster Prize & Final Remarks
12:30 - 13:30	Departure