



CONFERENCE ON ADVANCEMENTS
IN ORGANOID SCIENCES 2025



30th + 31st January 2025

www.medicalschool-hamburg.de/caos

Important: The symposium will take place at two different locations

Day 1 **30th January | Thursday**
Lecture Hall 74.7.04 Kehrwiederspitz
Medical School Hamburg (MSH)
Am Sandtorkai 74
20457 Hamburg

Session Chairs:
Sven Hendrix
Lisa Wolff

	12:00 – 12:30	Registration and Coffee
	12:30 – 12:35	Welcome and Introduction
Scientific Talk 1	12:35 – 12:55	Lisa Wolff MSH Medical School Hamburg <i>Rethinking Matrigel - the complex journey to matrix alternatives in organoid culture</i>
Company Talk	12:55 – 13:25	Katharina Debowski STEMCELL Technologies <i>Tools and Resources for Organoid Research from STEMCELL Technologies</i>
Selected Abstract Talks	13:25 - 13:40	Mathieu Hubert Department of Microbiology and Molecular Medicine, University of Geneva <i>Apical-out airway organoids (AOAO): a physiologically relevant model with high-throughput scalability for studying interactions between airborne viruses and the human respiratory epithelium</i>
	13:40 - 13:55	Lina Widerspich Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany & German Center for Infection Research (DZIF) <i>A human cerebral organoid model to investigate the host-pathogen determinants of Ebola virus persistence in the central nervous system</i>
	13:55 - 14:10	Kim Krieg Discovery Research ScreeningPort, Fraunhofer ITMP, Hamburg <i>Cortical organoid-derived melanoma brain metastases enable prioritization of anti-cancer drugs in a tumor niche context</i>
	14:10 – 14:40	Coffee break / Networking
Keynote Lecture 1	14:40 – 15:25	Jürgen Knoblich IMBA, Austrian Academy of Science, Vienna <i>Cerebral organoids: Genetic screening and neural network pathology in human tissue</i>
Scientific Talk 2	15:25 – 15:55	Philipp Mergenthaler Center for Stroke Research, Charité, Berlin <i>Brain organoids as models in stroke research</i>
	15:55 – 16:25	Coffee break / Networking
Keynote Lecture 2	16:25 – 17:10	Ludovic Vallier MPI for Molecular Genetics & BIH, Charité, Berlin <i>Modelling liver regeneration using Organoids</i>
Scientific Talk 3	17:10 – 17:40	Sina Bartfeld Medical Biotechnology, Technical University Berlin <i>Infection, Innate immune signalling and cancer in the gut - organoids as model</i>
	17:40 – 17:45	Closing Remarks

Day 2 **31st January | Friday**
„GOLDEN EGG“ at MSH
Medical School Hamburg (MSH)
Großer Grasbrook 15-17
20457 Hamburg

Session Chairs:
 Maibritt Kretschmer
 Anja Trillhaase

	08:30 – 09:00	Coffee
	09:00 – 09:05	Welcome
Scientific Talk 4	09:05 – 09:25	Maibritt Kretschmer MSH Medical School Hamburg <i>The Role of Matrix Stiffness in 3D Culture Systems - From Spheroids to Organoids</i>
Scientific Talk 5	09:25 – 09:55	Philipp Wörsdörfer Stem Cell Biology, Uni Würzburg <i>Generation of a human peripheral nerve model from induced pluripotent stem cells using organoid and assembloid technology</i>
Scientific Talk 6	09:55 – 10:25	Christine Mummery Leiden University Medical Center <i>Human pluripotent stem cell models of cardiac disease come-of-age</i>
Selected Abstract Talks	10:25 – 10:40	Miriana Dardano LEBAO/HTTG/REBIRTH, Hannover Medical School <i>Blood-Generating Heart-Forming Organoids (BG-HFOs) recapitulate co-development of the human hematopoietic system and the embryonic heart</i>
	10:40 – 10:55	Sandra Laufer III. Department of Medicine & Hamburg Center for Kidney Health, UKE Hamburg <i>Advancing disease modeling to decipher the cardiorenal phenotype of fabry disease using organoids from patient-derived induced pluripotent stem cells</i>
	10:55 – 11:30	Coffee break / Networking
Keynote Lecture 3	11:30 – 12:15	Josef Penninger Helmholtz Center for Infection Research, Braunschweig <i>Rankl - from bones to maternal health</i>
Company Talk	12:15 – 12:45	Salvatore Simmini STEMCELL Technologies <i>Organoid Models Beyond the Dome: Pioneering Innovative Tools for Advanced Cell Culture</i>
Scientific Talk 7	12:45- 13:15	Carola Voss LEBAO, Hannover Medical School <i>Lung organoids for delineating perturbation patterns in respiratory health</i>
	13:15 – 14:15	Lunch/Poster Presentation / Networking
Keynote Lecture 4	14:15 – 15:00	Nicolas Rivron IMBA, Austrian Academy of Science, Vienna <i>Blastoid: modeling human early pregnancy with stem cells</i>
Scientific Talk 8	15:00 – 15:30	Hugo Vankelecom Cluster of Stem Cell and Developmental Biology, KU Leuven <i>Endometrial organoid and derived implantation models to peer into female reproductive health and disease</i>
	15:30 – 15:35	Closing Remarks
	15:35 - 16:00	Coffee break
Company Talk	16:00 – 17:30	Katharina Debowski STEMCELL Technologies <i>Workshop - The Importance of High-Quality hPSC Cultures - Maintenance, Assessment and Implications of hPSC Culture Quality</i>