

UNIVERSITA' DI PERUGIA
AULA MAGNA
DIPARTIMENTO DI MEDICINA VETERINARIA

ORGANOIDS

Revolutionizing biomedicine through
miniature organ models

08.05.2024

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ISTITUTO ZOOPROFILATTICO SPERIMENTALE
DELL'UMBRIA E DELLE MARCHE "TOGO ROSATI"

 **Sial** S.I.A.L. srf
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mirroring human complexity

PROGRAM

9.15 REGISTRATION

MORNING SESSION

9.45 OPENING

Prof. Fabrizio Rueca (Director of the Department of Veterinary Medicine - University of Perugia)
Dr. Vincenzo Caputo (Director of Experimental Zooprofilactic Institute for Umbria and Marche - Togo Rosati)

Session chairs: Prof. Chiara Brachelente and Prof. Elisabetta Chiaradia

10.00 3D IN VITRO VERSUS IN VIVO MODELS: PRESENT APPROACHES AND FUTURE PERSPECTIVE

Prof. Teresa Zelante (Department of Medicine and Surgery, University of Perugia)

10.30 MULTI-SPECIES ORGANOID PLATFORMS TO STUDY THE INTESTINAL BIOLOGY AND THE INTERACTION WITH PATHOGENS OF HUMAN AND ANIMAL CONCERNS

Dr. Christian Klotz (Robert Koch Institute, Berlin)

11.00 COFFEE BREAK

11.45 LIVER ORGANIDS AS A TOOL TO UNDERSTAND TISSUE REGENERATION UPON ETHANOL DAMAGE

Dr. Gianluca Vascelli (Department of Medicine and Surgery, University of Perugia)

12.00 CANINE MELANOMA UNVEILED: EXPLORING IMMUNE CELL INTERACTION IN 3D CO-CULTURE MODELS

Dr. Adriana Lo Giudice (Department of Veterinary Medicine, University of Perugia)

12.15 NOVEL 3D CANCER TISSUE MODELS AND ORGAN ON CHIP BASED PLATFORMS FOR ACCELERATING MEDICAL RESEARCH AND IMPROVING DRUG TESTING

Dr. Silvia Scaglione (National Research Council - CNR)

12.45 DISCUSSION

13.00 LUNCH BREAK

AFTERNOON SESSION

Session chairs: Prof. Luisa Pascucci and Prof. Elvio Lepri

14.30 NEW APPROACH METHODOLOGIES (NAMS) IN THE RISK ASSESSMENT IN THE FOOD SECTOR: INTESTINAL IN VITRO MODELS FOR THE STUDY OF CROSSING AND UPTAKE OF NANOPARTICLES

Dr. Olimpia Vincentini (Department of Food Safety, Nutrition and Veterinary Public Health - ISS)

15.00 USING LUNG ORGANIDS TO STUDY HOST-PATHOGEN INTERACTIONS

Dr. Sebastian Reusch (Robert Koch Institute, Berlin)

15.30 ORGANIDS AS SUITABLE MODEL FOR THE STUDY OF THE EFFECTS OF DRUGS AGAINST *Giardia duodenalis*

Dr. Giulia Rigamonti (Department of Veterinary Medicine, University of Perugia)

15.45 FROM PAINTING TO SCULPTURE: MORPHOLOGICAL APPROACHES FOR THE STUDY OF 2D AND 3D MODELS

Dr. Gabriele Scattini (Department of Veterinary Medicine, University of Perugia)

16.00 CLOSING REMARKS

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