

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"

# PROGRAM

## MORNING SESSION

### 9.30 OPENING

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

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

### 9.45 3D IN VITRO VERSUS IN VIVO MODELS: PRESENT APPROACHES AND FUTURE PERSPECTIVE

Dr. Silvia Dotti (National Reference Centre for Alternative Methods, Welfare and Care of Laboratory Animals - IZSLER)

### 10.15 ORAL TONGUE ORGANOID AS A NOVEL MODEL FOR POST-RADIOTHERAPY MUCOSITIS

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

### 10.45 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)

### 11.15 COFFEE BREAK

### 11.45 LIVER ORGANOID 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 ORGANOID TO STUDY HOST-PATHOGEN INTERACTIONS

Dr. Sebastian Reusch (Robert Koch Institute, Berlin)

### 15.30 ORGANOID 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 SPONSOR TIME

### 16.30 CLOSING REMARKS

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