



IRCCS REGINA ELENA NATIONAL CANCER INSTITUTE, ROME in collaboration with  
CHARITÉ UNIVERSITÄTSMEDIZIN, BERLIN

**6<sup>th</sup> WORKSHOP IRE ON TRANSLATIONAL ONCOLOGY**  
**CANCER ORGANOIDS AS RELIABLE DISEASE**  
**MODELS TO DRIVE CLINICAL DEVELOPMENT**  
**OF NOVEL THERAPIES**

**ROME, SEPTEMBER 23-24, 2024**

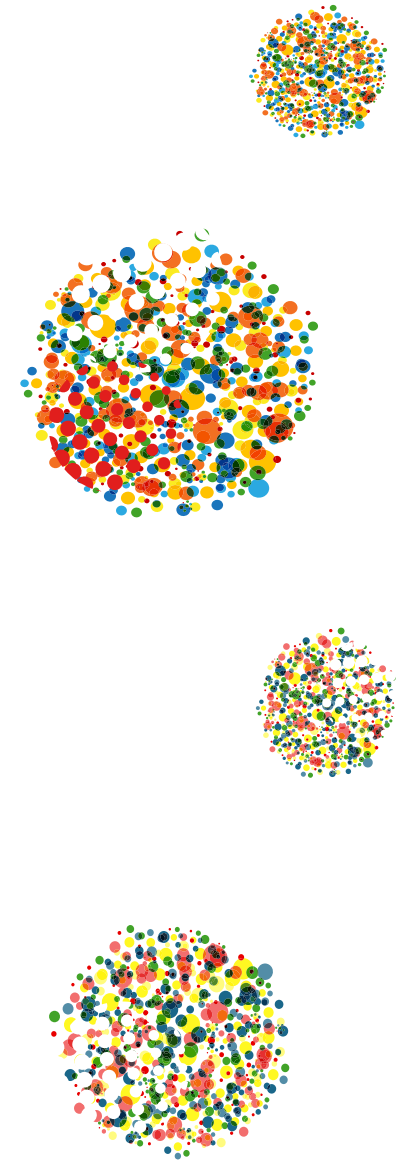
**IRCCS REGINA ELENA NATIONAL CANCER INSTITUTE**

Organizing committee

**ANNA BAGNATO, GIOVANNI BLANDINO, FEDERICO CAPPUZZO, GENNARO CILIBERTO,  
ULRICH KEILHOLZ, PAOLA NISTICÒ, INGEBORG TINHOFER**

## WORKSHOP OVERVIEW

Modelling the dynamic tumor ecosystems with many elements that display spatial and temporal evolution represents a central challenge in precision oncology. Patient-derived 3D culture models, including organoids, explants, and engineered or bioprinted models, have recently emerged as sophisticated viable systems for studying complex and diverse populations of cancer cells interacting within their microenvironments that can address a myriad of unmet needs in precision medicine for clinical decision making. There has been a recent explosion of techniques and platforms of these human tissue avatars that enable modelling cellular alterations in disease states and screening of compounds and molecules to discover new pathways. This workshop will bring together experts in 3D models from various tissues and will create valuable cross-fertilization of ideas and approaches that will benefit many fields, providing a critical overview at both clinical and preclinical levels. The workshop program will also include engineering approaches that will highlight next generation 3D model technology to recapitulate the complexity of human cancer. An additional aim of this workshop is to evaluate 3D models in the immuno-oncology field as a way to study the interaction of the immune system with epithelial tumors to develop new diagnostic and therapeutic tools. As a result of this meeting, it is anticipated that both senior and junior participants will have a much better understanding of the capabilities of 3D model systems and see new avenues for drug screening exploration.



## ORGANIZING COMMITTEE

### ANNA BAGNATO

IRCCS Regina Elena National Cancer Institute  
Rome, Italy

### GIOVANNI BLANDINO

IRCCS Regina Elena National Cancer Institute  
Rome, Italy

### FEDERICO CAPPUZZO

IRCCS Regina Elena National Cancer Institute  
Rome, Italy

### GENNARO CILIBERTO

IRCCS Regina Elena National Cancer Institute  
Rome, Italy

### ULRICH KEILHOLZ

Charité - Universitätsmedizin Berlin  
Berlin, Germany

### PAOLA NISTICÒ

IRCCS Regina Elena National Cancer Institute  
Rome, Italy

### INGEBORG TINHOFFER

Charité - Universitätsmedizin Berlin  
Berlin, Germany

## SECRETARIAT

### TANIA MERLINO, CATIA MINUTIELLO, ROBERTO BERNARDI

IRCCS Regina Elena National Cancer Institute (IRE)  
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tel. +39 06 52662728  
email: dirscire@ifjo.it

## LOGISTIC SECRETARIAT

### MI&T srl - Centro Direzionale Bolomnia

via Gueifa 5 - 40138 Bologna, Italy  
[www.mitcongressi.it](http://www.mitcongressi.it)

## PROGRAMME

### MONDAY, 23 SEPTEMBER 2024

13.30-14.00

#### Welcome Address

##### Livio De Angelis

CEO Istituti Fisioterapici Ospitalieri  
Rome, Italy

##### Gennaro Ciliberto

Scientific Director,  
IRCCS Regina Elena National Cancer Institute  
Rome, Italy

##### Ulrich Keilholz

Charité - Universitätsmedizin Berlin  
Berlin, Germany

## SESSION I

### ORGANOIDS IN CANCER MODELING

Chairperson:

#### Daniela Corda

IEOS National Research Council of Italy - CNR  
Naples, Italy

#### Silvia Soddu

IRCCS Regina Elena National Cancer Institute  
Rome, Italy

14.00-14.30

### 3D-BIOPRINTED CANCER MODELS FOR TARGET DISCOVERY, DRUG DEVELOPMENT, AND PERSONALIZED THERAPY

#### Ronit Satchi-Fainaro

Cancer Biology Research Center, Tel Aviv University,  
Tel Aviv, Israel

14.30-15.00

### ADVANCES OF PATIENT-DERIVED ORGANOIDS IN PER- SONALIZED RADIOTHERAPY

#### Ingeborg Tinhofer

Charité - Universitätsmedizin Berlin  
Berlin, Germany

15.00-15.30

### A 3D CULTURE PLATFORM FOR HIGH-THROUGH PUT DRUG SCREENINGS AND MULTIDIMENSIONAL OMICS AND IMAGING ASSAYS ON PATIENT- DERIVED ORGANOIDS

#### Giovanni Tonon

Vita Salute San Raffaele University;  
Center for Omics Sciences,  
IRCCS San Raffaele Scientific Institute  
Milan, Italy

15.30- 16.00

Coffee break

## SESSION II

### NEXT GENERATION 3D CANCER MODELS

Chairperson:

#### Anna Bagnato

IRCCS Regina Elena National Cancer Institute  
Rome, Italy

#### Claudio Sette

IRCCS Fondazione Policlinico Agostino Gemelli  
Rome, Italy  
Catholic University of the Sacred Heart  
Rome, Italy

16.00-16.30

### ADVANCING TUMOROID MODELS THROUGH BIOPRINTING AND BIOMATERIALS DESIGN

#### Sarah C. Heilshorn

Stanford University  
Stanford, California, USA

16.30-17.00

### MODELING AND MODULATING ANTITUMOR IMMUNITY IN HUMAN CANCER TISSUES

#### Daniela S. Thommen

Division of Molecular Oncology & Immunology  
The Netherlands Cancer Institute  
Amsterdam, The Netherlands

17.00-17.30

### PERSONALIZED FUNCTIONAL PROFILING

**Yong-Jun Kwon**

Luxembourg Institute of Health

Luxembourg

17.30-18.00

**TITLE TBD**

**Ulrich Keilholz**

Charité Universitätsmedizin Berlin

Berlin, Germany

## TUESDAY, 24 SEPTEMBER 2024 YOUNG INVESTIGATOR SESSION

Chairperson:

**Sara Donzelli**

IRCCS Regina Elena National Cancer Institute

Rome, Italy

**Pasquale Zizza**

IRCCS Regina Elena National Cancer Institute

Rome, Italy

09.30-09.45

**TITLE TBD**

1st speaker

affiliazione

09.45-10.00

**TITLE TBD**

2nd speaker

affiliazione

10.00-10.15

**TITLE TBD**

3rd speaker

affiliazione

10.15-10.30

**TITLE TBD**

4th speaker

affiliazione

10.30-11.00

Coffee break

11.00-11.15

**TITLE TBD**

5th speaker

affiliazione

11.15-11.30

**TITLE TBD**

6th speaker

affiliazione

11.30-11.45

**TITLE TBD**

7th speaker

affiliazione

11.45-12.00

**TITLE TBD**

8th speaker

affiliazione

12.00-13.00

### MEET THE EDITOR

**Gerry Melino**

Editor in Chief,

Cell death & Differentiation

Rome, Italy

13.00-14.00

Light lunch

## SESSION III TOWARDS PRECISION ONCOLOGY WITH 3D MODELS

Chairperson:

**Federico Cappuzzo**

IRCCS Regina Elena National Cancer Institute

Rome, Italy

**Maurizio Fanciulli**

IRCCS Regina Elena National Cancer Institute

Rome, Italy

14.00-14.30

### DRUG SCREENING IN TUMOR ORGANOIDS

**Giovanni Blandino**

IRCCS Regina Elena National Cancer Institute

Rome, Italy

14.30-15.00

### DISSECTING PLASTICITY DURING METASTASIS

**Karuna Ganesh**

Memorial Sloan Kettering Cancer Center,

New York, NY, USA

15.00-15.30

### INTEGRATION OF MACHINE LEARNING AND PATIENT- DERIVED ORGANOIDS INSTRUCTS NEXT-GENERATION PRECISION CANCER MEDICINE

**Antonio Iavarone**

The Sylvester Comprehensive Cancer Center, University of Miami

Miami, Florida, USA

15.30-16.00

Coffee break

## SESSION IV 3D MODELS IN IMMUNO-ONCOLOGY

Chairperson:

**Paola Nisticò**

IRCCS Regina Elena National Cancer Institute

Rome, Italy

**Silvia Piconese**

Sapienza University of Rome

Rome, Italy

16.00-16.30

**TITLE TBD**

**Massimiliano Pagani**

IFOM ETS - The AIRC Institute of Molecular Oncology

Milan, Italy

16.30-17.00

**TITLE TBD**

**Marianna Kruithof-de Julio**

Department for Bio Medical Research

University of Bern

Bern, Switzerland

17.00-17.30

**PATIENT-DERIVED MICRO-ORGANOIDS  
ENABLE PRECISION ONCOLOGY**

**Xiling Shen**

Department of Biomedical Engineering,  
Pratt School of Engineering, Duke University,  
Durham, NC, USA

17.30- 18.00

**CLOSING REMARKS**

**Gennaro Ciliberto**

Scientific Director  
IRCCS Regina Elena National Cancer Institute  
Rome, Italy

**Ulrich Keilholz**

Charité - Universitätsmedizin Berlin  
Berlin, Germany

**FACULTY**

**Anna Bagnato**

IRCSS Regina Elena National Cancer Institute  
Rome, Italy

**Giovanni Blandino**

IRCCS Regina Elena National Cancer Institute  
Rome, Italy

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Rome, Italy

**Maurizio Fanciulli**

IRCCS Regina Elena National Cancer Institute  
Rome, Italy

**Karuna Ganesh**

Memorial Sloan Kettering Cancer Center  
New York, NY, USA

**Sarah C. Heilshorn**

Stanford University  
Stanford, California, USA

**Antonio Iavarone**

University of Miami  
Miami, Florida, USA

**Ulrich Keilholz**

Charité Universitätsmedizin Berlin  
Berlin, Germany

**Marianna Kruthof-de Julio**

University of Bern  
Bern, Switzerland

**Yong-Jun Kwon**

Luxembourg Institute of Health  
Luxembourg

**Gerry Melino**

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Berlin, Germany

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Vita Salute San Raffaele University  
Center for Omics Sciences,  
IRCCS San Raffaele Scientific Institute  
Milan, Italy

**Pasquale Zizza**

IRCCS Regina Elena National Cancer Institute  
Rome, Italy



## GENERAL INFORMATION

### VENUE

Regina Elena National Cancer Institute

Centro formazione Bastianelli

Via Fermo Ognibene, 23 Roma, Italy



### REGISTRATION

This event will be held in presence.

Please complete the process to register at our site

[www.mitcongressi.it](http://www.mitcongressi.it)

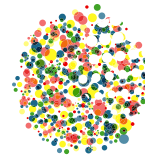


## CME INFORMATION

The scientific sessions will be accredited for the following professionals

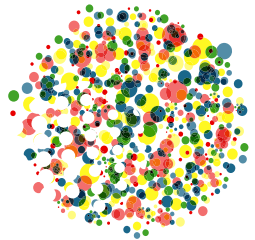
Medical specialties:

XXXXXXX



## CME INSTRUCTIONS

The CME Questionnaire and Certificate of Participation will be available online by accessing our platform in the “My courses” section of your reserved area. To qualify for CME Credits, participants are required to attend at least 90% of the accredited sessions and the detection of the presence and the compilation of the satisfaction questionnaire of the event will also be mandatory. **The deadline for the completion of the CME assessment questionnaire and the course approval questionnaire is set within 72 hours from the end of the course. You will need a score of 75% or higher on the learning assessment questionnaire.**



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