ASSOCIAZIONE ITALIANA
DI COLTURE CELLULARI
Associazione di Promozione Sociale (APS)

Università
degli Studi
della Campania
*Luigi Vanvitelli*

# *"Organoids as models of human diseases"*

Naples, December 1st - 3rd 2022

University of Campania "L. Vanvitelli"

Hybrid meeting

PRELIMINARY PROGRAM

**34th AICC ANNUAL CONFERENCE**

ASSOCIAZIONE ITALIANA
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Università
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UNIVERSITÀ DEGLI STUDI
DI SALERNO

PRELIMINARY PROGRAM

# 34th AICC ANNUAL CONFERENCE

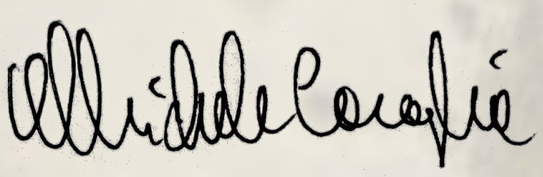
PRELIMINARY PROGRAM

## CONFERENCE AIMS

**Organoid technology currently represents a fundamental tool for both basic and translational research. Their potential to faithfully recapitulate human disease is the key for biomedical research in the present and in a near future. The aim of this congress is to gather national and international experts in the field to provide updated knowledge on organoids as models of human diseases.**

Looking for meeting you,

AICC President
Meeting Organizer
Prof. Michele Caraglia



PRELIMINARY PROGRAM 34th AICC ANNUAL CONFERENCE

## Thursday, 1st December

12.30 - 1:30 pm: **Registration**

1:30 - 1:45 pm: **Opening and Greetings**

- **Prof. Giovanni Francesco Nicoletti**
  Rector, University of Campania “L. Vanvitelli”

- **Prof. Ferdinando De Vita**
  Director, Department of Precision Medicine - University of Campania “ L. Vanvitelli”

- **Prof. Michele Caraglia**
  AICC President, Italian Association of Cell Cultures (AICC)
  Department of Precision Medicine - University of Campania “L. Vanvitelli”

## OPENING LECTURE

*Chair:* ***Massimo Donadelli***

1.45-2.20 pm: **Human organoids to model disease.**
**Meritxell Huch**, Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG), Dresden (Germany)

2.20-2.40 pm: **Questions and answers**

## SESSION I: ORGANOID TECHNOLOGY

*Chairs:* ***Stefania Meschini, Chiara Riganti, Federica Papaccio***

2.40-2.45 pm: **Introduction to the session**

2.45-3.05 pm: **Human organoids from pancreas and lung as possible therapy and functional models.**
**Lorenza Lazzari**, University of Milan, Milan (Italy)

PRELIMINARY PROGRAM 34th AICC ANNUAL CONFERENCE

## Thursday, 1st December

## SESSION I: ORGANOID TECHNOLOGY

*Chairs:* ***Stefania Meschini, Chiara Riganti, Federica Papaccio***

3.05-3.25 pm: **Nasal epithelial stem cell-based organoids for personalized therapy in cystic fibrosis.**
**Adriana Eramo**, ISS, Rome (Italy)

3.25-3.35 pm: **"Video Killed the Imaging Star".**
**Francesco Girardi,** Media System Lab

3.35-3.45 pm: **Imaging X-tra in 3D label-free holotomography**.
**Daniel Ghete,** Tomocube

3.45-4.05 pm: **Questions and answers**

4.05-4.25 pm: **Coffee break and posters**

4.25-4.45 pm: **3D gastruloids: from modeling mammalian development to developmental toxicology.**
**Annalisa Fico**, CNR, Naples (Italy)

4.45-5.05 pm: **Modeling pulmonary cystic fibrosis in a human lung airway-on-a- chip.**
**Roberto Plebani**, University of Chieti-Pescara, (Italy)

5-05-5.25 pm: **Questions and answers**

5.25-5.35 pm: **A multifunction platform simulating human intestinal physiology to study the effects of ingested micro- and nano-particles.**
**Giulia Antonello,** University of Turin (Italy)

5.35-5.45 pm: **Generation of blood vessel organoids: a powerful model to investigate endothelial dysfunction during insulin resistance**
**Elisa Martino,** University of Campania (Italy)

5.45- 5.55 pm: **Soundwave-driven vascularized 3D models of cancers: a reliable tool for drug screening.**
**Joanna Kopecka,** University of Turin, (Italy)

5.55- 6.00 pm: **Questions and answers**

6.00-7.00 pm: **Round table: HUMAN ORGANOIDS IN THE ERA OF PRECISION MEDICINE**
*Chairs Michele Caraglia.* Participants: Teresa Troiani, Raffaele Addeo, Alessandro Ottaiano

7.00- 7.30 pm: **Questions and answers**

7.30- 7.35 pm: **Closing remarks of day I**

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## SESSION II: ORGANOIDS AS CANCER MODELS

*Chairs:* ***Enrico De Smaele, Carlo Leonetti***

9.00-9.05 am: **Introduction to the session**

9.05-9.25 am: **Targeting invasion in colorectal cancer organoids.**
**Enza Lonardo**, CNR, Naples (Italy)

9.25-09.45 am: **Gastric cancer organoids: a tool to predict therapeutic efficacy and to model gastric cancer development.**
**Silvia Giordano**, University of Turin, (Italy)

9.45-10.05 am: **Organoid models for lung cancer: translational perspectives.**
**Carminia Della Corte**, University of Campania, Naples (Italy)

10.05-10.25 am: **Coffee break and posters**

10.25-10.45 am: **Modeling brain cancer with human organoids.**
**Luca Tiberi**, University of Trento, (Italy)

10.45-11.05 am: **Pancreatic cancer organoids as a new platform to dissect tumor heterogeneity.**
**Vincenzo Corbo**, University of Verona, (Italy)

11.05-11.25 am: **Targeting epigenetic readers in leukemia: new perspectives for therapeutic interventions.**
**Nunzio Del Gaudio**, University of Campania, Naples (Italy)

11.25-11.35 am: **GelCount: Integrated imaging and analysis platform for Organoids.**
**Simona Maida**, Technical sales Specialist, Cytosens for Oxford Optronix

11.35-11.55 am: **Questions and answers**

11.55-12.05 am: **Hedgehog-GLI and NOTCH signalling pathways induce chemotherapeutic resistance and mesenchymal phenotype in Colorectal cancer organoid.**
**Anna Citarella,** Sapienza University of Rome, (Italy)

12.05-12.15 pm: **Regulatory role of miR-449a as a potential biomarker in Head and Neck Carcinoma**
**Marianna Scrima,** Biogem, Ariano Irpino, (Italy)

12.15-12.20 pm: **Questions and answers**

12.20-13.35 pm: **Lunch.**

PRELIMINARY PROGRAM 34th AICC ANNUAL CONFERENCE

## Friday, 2nd December

## SESSION III: ORGANOIDS AS MODELS FOR NON-ONCOLOGICAL DISEASES

*Chairs:* ***Katia Scotlandi, Francesca Zazzeroni***

1.35-1.40 pm: **Introduction to the session**

1.40-2.00 pm: **A Perspective on Organoids for Virology Research.**
**Matteo Porotto**, University of Campania, Naples (Italy)

2.00-2.20 pm: **Using human brain organoids to model neurodevelopmental disorders: the case of Fragile X Syndrome.**
**Silvia Di Angelantonio**, University "La Sapienza", Rome (Italy)

2.20-2.40 pm: **Understanding disrupted molecular pathways in neuropsychiatric diseases using human-derived brain organoids.**
**Theo Ribierre**, University of Geneva, (Switzerland)

2.40-3.00 pm: **Questions and answers**

3.00-3.10 pm: **3D cellular model automated sorting and processing.**
**Steffen Cosson**, Cellenion Senior Scientist, EUROCLONE

3.10-3.20 pm: **Organoid Image Analysis with AI to Boost your Research.**
**Dr. Paolo Boschi**, Sales Manager Life Science, Carl Zeiss SpA

3.20-3.30 pm: **A combined approach based on kidney cell lines and kidney organoids led to the Identification of a novel role of OCRL in Lipid Droplets dynamics unveiling the molecular mechanisms underneath the decline of kidney function in Lowe Syndrome.**
**Leopoldo Staiano,** CNR, Milan,(Italy)

3.30-3.50 pm: **Disease Intestinal organoids as a Tool for research and treatment screening for Inflammatory Bowel Disease**
**Nathalie Vergnolle**, IRSD, Toulouse (France)

3.50-4.00 pm: **2D and 3D stem cell-based models of dystrophic cardiomyopathy.**
**Maurilio Sampaolesi**, University "La Sapienza", Rome (Italy)

4.00-4.20 pm: **Questions and answers**

4.20-4.40 pm: **Coffee break and posters**

4:40-6:00 pm: **AICC General Assembly and Board Election**

PRELIMINARY PROGRAM 34th AICC ANNUAL CONFERENCE

## Saturday, 3st December

## SESSION IV: CONTROVERSY SESSION AND NEW ADVANCED METHODS FOR ORGANOID GROWTH

*Chairs:* ***Maria Teresa Di Martino, Silvia Zappavigna***

09.00-09.05 am: **Introduction to the session**

09.05-09.25 am: **Will Organs-in-a-Dish Ever Replace Animal Models?**
**Alex Calon**, IMIM, Barcelona (Spain)

09.25-09.45 am: **Is there a role for PDOs in RCT? How to design the appropriate trial? The oncologist's perspective.**
**Floriana Morgillo**, University of Campania, Naples (Italy)

09.45-09.55 am: **3D-model versus 2D-model of Glioblastoma multiforme: two different model to overcome the low drug delivery through blood-brain barrier**
**Iris Chiara Salaroglio,** University of Turin, (Italy)

09.55-10.05 am: **IDENTIFICATION OF PROGNOSTIC GENE MARKERS USING TRANSCRIPTOME ANALYSIS IN HYPOXIC MESOTHELIOMA**
**Madhura Tathode,** University of Campania, Naples, (Italy)

10.05-10.15 am: **Pharmacological targeting of the novel b-catenin chromatin-associated kinase p38a in colorectal cancer stem cell tumorspheres and organoids**
**Martina Lepore Signorile,** IRCCS 'S. de Bellis', Castellana Grotte (Ba), Italy

10.15-10.20 am: **Questions and answers**

10.25-10.45 am: **Coffee break and posters**

10.45-11.05 am: **Nanofibers and nanofiber-derived device for organoid development and nanosensing.**
**Evzen Amler**, Charles University of Prague, (Czech Republic)

11.05-11.15 am: **Questions and answers**

11.15-11.35 am: **AICC awards**

11.35-11.50 am: **Concluding remarks and future initiative of AICC**

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## AICC SCIENTIFIC BOARD and ORGANIZING COMMITEE

**President**
**Michele Caraglia**, University of Campania “L. Vanvitelli”, Naples, Italy

**Vice President**
**Stefania Meschini**, Istituto Superiore di Sanità, Rome, Italy

**Past President**
**Katia Scotlandi**, IRCCS Istituto Ortopedico Rizzoli, Bologna, Italy

**Board of Directors:**
**Massimo Donadelli (Secretary)**, University of Verona, Verona, Italy
**Francesca Zazzeroni (Treasurer)**, University of L’Aquila, L’Aquila, Italy
**Enrico De Smaele**, La Sapienza University of Rome, Rome, Italy
**Maria Teresa Di Martino**, “Magna Graecia” University, Catanzaro, Italy
**Chiara Riganti**, University of Turin, Turin, Italy

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**Federica Papaccio**, University of Salerno, Salerno, Italy
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**Angela Lombardi**,University of Campania, Naples, Italy
**Amalia Luce**,University of Campania, Naples, Italy
**Laura Mosca**, University of Campania, Naples, Italy
**Margherita Borriello**, University of Campania, Naples, Italy
**Evelin Pellegrini**, IRCCS Istituto Ortopedico Rizzoli, Bologna, Italy

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# FACULTY

**Adriana Eramo**, Istituto Superiore di Sanità, Rome (Italy)
**Alessandro Ottaiano**, Istituto Nazionale Tumori, IRCCS G. Pascale, Naples, (Italy)
**Alex Calon**, IMIM, Barcelona (Spain)
**Annalisa Fico**, CNR, Naples (Italy)
**Boschi Paolo**, Sales Manager Life Science, Carl Zeiss SpA
**Carminia Della Corte**, University of Campania, Naples (Italy)
**Daniel Ghete**, Tomocube
**Enza Lonardo**, CNR, Naples (Italy)
**Evzen Amler**, Charles University of Prague, (Czech Republic)
**Francesco Girardi**, Media System Lab
**Floriana Morgillo**, University of Campania, Naples (Italy)
**Lorenza Lazzari**, University of Milan, (Italy)
**Luca Tiberi**, University of Trento, (Italy)
**Matteo Porotto**, University of Campania, Naples (Italy)
**Maurilio Sampaolesi**, University "La Sapienza", Rome (Italy)
**Meritxell Huch**, Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG), Dresden (Germany)
**Nathalie Vergnolle**, IRSD, Toulouse (France)
**Nunzio del Gaudio**, University of Campania, Naples (Italy)
**Raffaele Addeo**, U.O.C. Oncology "S. Giovanni di Dio" Hospital, ASLNA2NORD
**Roberto Plebani**, University of Chieti-Pescara, (Italy)
**Silvia Di Angelantonio**, University "La Sapienza", Rome (Italy)
**Silvia Giordano**, University of Turin, (Italy)
**Simona Maida**, Technical sales Specialist, Cytosens for Oxford Optronix
**Steffen Cosson**, Cellenion Senior Scientist, EUROCLONE
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**Theo Ribierre**, University of Geneva, (Switzerland)
**Vincenzo Corbo**, University of Verona, (Italy)

PRELIMINARY PROGRAM 34th AICC ANNUAL CONFERENCE

# REGISRATION FEES

| Registration fees | Meeting fee (VAT included) |
|---|---|
| On-site attendance | 200.00 € |
| On-line attendance | 150.00 € |
| PhD students, undergraduate students (both on-site/on-line)* | 75.00 € |
| PhD students Unicampania ** | *Free admittance* |

* Please provide a certificate of your status of student along with the payment receipt to: **aicc.meeting@gmail.com**

**FOR ***University of Campania "L. Vanvitelli"*** **PhD students**: Please do not use the above link, but send the "Registration form for UNICAMPANIA students" (from: **https://www.aicc.website/34th-aicc-annual-conference-organoids-models-of-human-diseases/**), to: silvia.zappavigna@unicampania.it

**Please notice that in case you have chosen to attend onsite and you change this option/would not be able to attend, you will be able to attend online, but AICC cannot pay back the difference between the onsite and the online attendance**

<u>Registration to the meeting includes:</u>

- Admission to all meeting sessions and meeting online material
- Abstract book file (PDF)
- Attendance certificate
- Conference kit
- Coffee break, light lunch

Registration without payment is not considered valid.

**PAYMENT**

*Bank transfer to:*

**Associazione Italiana di Colture Cellulari**

**IT97B0538703612000003002045 BPER BANCA S.P.A.**

**L'Aquila, agenzia 10, Via Campo di Pile, 67100 L'Aquila (AQ)**

*Reason for payment (causale): please, indicate your surname, name and title of the event.*

PRELIMINARY PROGRAM 34th AICC ANNUAL CONFERENCE

# INFORMATION

**To partecipate to the meeting is required a valid AICC membership.**
Membership request forms are attached to this program and are available at the following link: *https://www.aicc.website/cosaelaicc/sottoscrizioni/*
**2022 AICC membership is free of charge.**

**AICC Secretariat**

**Massimo Donadelli**, massimo.donadelli@univr.it
**Evelin Pellegrini**, evelin.pellegrini@ior.it

**Event technical support**

**Xenia Eventi**, info@xeniaeventi.it

**Conference Venue**

Aula Bottazzi
University of Campania «L. Vanvitelli»
Sant'Andrea delle Dame
Via L. De Crecchio 7, 80138 Naples

## Registration and asbtract submission

**Opening meeting registration:** 01/10/2022

**Deadline meeting registration:** 22/11/2022

To register, please use this link:

**Link:**

**https://docs.google.com/forms/d/1lW8ID1yzcupaewM3e7bfWg0Iti0IJ90ha6mij0Hcpyg/edit**

Please note that this is a provisional registration; the registration will be confirmed after completing the payment and sending the receipt of the payment and the students status declaration to: **aicc.meeting@gmail.com**

The submission of abstracts for oral presentations or posters is encouraged, particularly from early-career researchers.
Registration to the meeting is required to submit an abstract.

**Deadline for abstract submission:** 18/11/2022

The abstract form is available on the AICC website:
**https://www.aicc.website/**

To submit your abstract, please send the filled abstract form to: **aicc.meeting@gmail.com**

Among the submitted abstracts, the AICC Scientific Board will select oral communications (10 minutes).

Participants will be informed of the selection by 22/11/2022

## AWARDS

AICC will award for best oral presentation by authors younger than 35 years of age.

AICC will also awards for best poster by authors younger than 35 years of age.

Journal of Experimental and Clinical Cancer Research (JECCR) will also awards for best poster

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