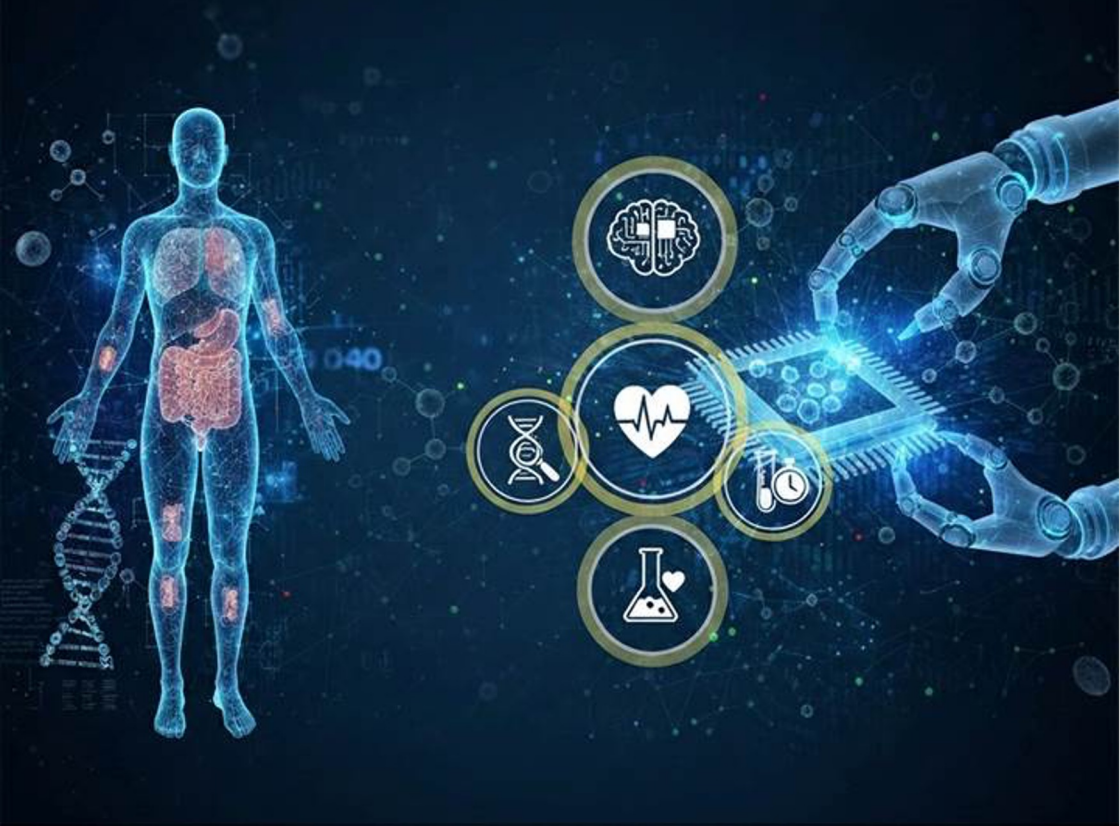
ASSOCIAZIONE ITALIANA DI COLTURE CELLULARI

UNIVERSITÀ DELLA CALABRIA

38th AICC International Meeting

PRECISION MEDICINE IN THE BIG DATA AGE: from basic science to clinically relevant insights through AI



4-6th November 2026
University of Calabria
Conference Centers
Rende - Cosenza

CONFERENCE OVERVIEW

The rapid evolution of precision medicine increasingly relies on the effective interpretation of big data and the development of fast, accurate diagnostic methods. Artificial intelligence (AI) is central to this transformation, enhancing the precision, personalization, and efficiency of healthcare interventions while enabling advanced bioinformatic analyses. The 38th AICC International Conference will explore key applications of AI across the precision medicine landscape. In drug discovery and development, computational tools are accelerating target identification, molecular design, and candidate prioritization, while multi-omics approaches uncover drug mechanisms, metabolic vulnerabilities, and treatment-induced cellular reprogramming. The conference will also highlight AI-driven predictive and preventive medicine, integrating clinical, genetic, metabolomic, and environmental data to forecast disease risk and guide personalized interventions. Novel nanomaterial-based platforms for point-of-care detection of metabolic and molecular markers will also be presented. Advances in radiomics, imaging, surgery, and biomarker discovery through multi-omics integration will be discussed, emphasizing their role in improving disease characterization, prognosis, and precision-guided interventions. In immuno-oncology, AI and metabolomics are providing new insights into metabolic interactions within the tumor microenvironment, improving patient stratification and therapeutic outcomes. Finally, the convergence of big data, AI, and multi-omics will be explored as a driver of next-generation predictive models supporting informed, patient-centered care. Together, these discussions will highlight how AI is shaping the future of precision medicine, bringing healthcare closer to a model that is accurate, proactive, and deeply individualized.

We look forward to welcoming you to this inspiring and insightful event!

Scientific Coordinators

Dr.ssa Maria Teresa Di Martino

Prof.ssa Rosamaria Lappano

Prof. Marcello Maggiolini

The AICC President

Prof. Michele Caraglia

AICC Scientific Board

President

Michele Caraglia
University of Campania L. Vanvitelli, Naples, Italy

Vice President

Francesca Zazzeroni
University of L'Aquila, L'Aquila, Italy

Board of Directors

Chiara Riganti *(Secretary)*
University of Turin, Turin, Italy

Enrico De Smaele *(Treasurer)*
Sapienza University of Rome, Rome, Italy

Massimo Donadelli
University of Verona, Verona, Italy

Maria Teresa Di Martino
Magna Graecia University of Catanzaro, Catanzaro, Italy

Andrea Morandi
University of Florence, Florence, Italy

Past President

Katia Scotlandi
Rizzoli Orthopaedic Institute IRCCS, Bologna, Italy

AICC Scientific Technical Committee

Daria Capece
University of L'Aquila, L'Aquila, Italy

Simone Di Franco
University of Palermo, Palermo, Italy

Alessandra Fiore
University of Verona, Verona, Italy

Joanna Kopecka
University of Turin, Turin, Italy

Nicla Lorito
University of Florence, Florence, Italy

Caterina Mancarella
Rizzoli Orthopaedic Institute IRCCS, Bologna, Italy

Marta Moretti
Sapienza University of Rome, Rome, Italy

Silvia Zappavigna
University of Campania "L. Vanvitelli", Naples, Italy

Pasquale Zizza
Regina Elena National Cancer Institute IRCCS, Rome, Italy

AICC Local Board

SCIENTIFIC COORDINATORS

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

Maria Teresa Di Martino
Magna Graecia University of Catanzaro, Italy

Rosamaria Lappano
Magna Graecia University of Catanzaro, Italy

Marcello Maggiolini
University of Calabria, Rende, Italy

ORGANIZING COMMITTEE

Serena Ascrizzi
Valentina Marturano
AOU «Renato Dulbecco» Catanzaro, Italy

Michelangelo Vocaturo
Maha Munir
Magna Graecia University of Catanzaro, Catanzaro, Italy

Marianna Talia
Maria Antonietta Occhiuzzi
University of Calabria, Rende, Italy

Evelin Pellegrini
Rizzoli Orthopaedic Institute IRCCS, Bologna, Italy

Under the patronage of
University of Calabria
Department of Experimental and Clinica Medicine,
Magna Graecia University of Catanzaro

Maria Raffaella Ambrosio, University of Calabria (UniCal), Rende, Italy

Ivano Amelio, University of Kostanz, Kostanz, Germany

Michele Carbone, University of Hawaii Cancer Center

David Chang, University of Glasgow, Glasgow, UK

Stefano Cinti, University of Naples Federico II, Naples, Italy

Vincenzo Desiderio, University of Campania L. Vanvitelli, Naples, Italy

Luca De Stefano, Unit of Naples-National Research Council, Naples, Italy

Craig Anthony Glastonbury, Human Technopole, Milano, Italy

Oliver Kepp, Gustav Roussy, Paris, France

Laura Letchuga, Institut Català de Nanociència (ICN2), Barcellona, Spain

Franca Melfi, University of Calabria (UniCal), Rende, Italy

Alberto Paderno, Humanitas University, Milan, Italy

Giuseppe Palmieri, University of Sassari and IRGB, CNR, Sassari, Italy

Federica Papaccio, University of Salerno, Salerno, Italy

Antonio Pea, University of Verona, Verona, Italy

Stefan Schmidt, University of Mannheim, Mannheim, Germany

Nicole Soranzo, Human Technopole, Milano, Italy

Silvano Sozzani, Sapienza University of Rome, Rome, Italy

Domenico Talia, University of Calabria (UniCal), Rende, Italy

Pierfrancesco Tassone, Magna Graecia University of Catanzaro, Italy

Pierangelo Veltri, University of Calabria (UniCal), Rende, Italy

Antonello Vidiri, IRCSS Regina Elena, Rome, Italy

Faculty

Registration

To participate to the meeting is required a valid AICC membership.

Membership request form is available at the following link:
https://www.aicc.website/cosaelaicc/sottoscrizioni/

Membership fee is 50 €.

Reason for payment (causale): please, indicate your surname, name, 2026 AICC Membership".

Registration fees	**Meeting fee (VAT included)**
Early Meeting Registration (before 11/08/2026)	**200€**
Late Meeting Registration	**250€**
Early PhD students, undergraduate students (before 11/08/2026)	**100€**
Late PhD students, undergraduate students	**150€**

Registration fees include:

- Admission to all meeting sessions and exhibition areas
- Abstract book (PDF)
- Attendance certificate
- Conference kit
- Welcome Cocktail, Coffee break, light lunch

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, 38th AICC meeting registration"

Copy of the receipt must be sent to: aicc.meeting@gmail.com

General information ℹ️

🗓️ **When:** November 4th - 6th, 2026

📍 **Where:** University of Calabria, Via P. Bucci, 87036 Rende (Cosenza)
- Wednesday 4th November, "**Aula Caldora**";
- Thursday 5th and Friday 6th November, "**B. Andreatta**" Conference Center

🗣️ Language: meeting official language is English.

🖥️ Slides: slides must have written in English and should be handed in to the presentation centre one hour before the start of each session.

Accomodation 🏨

Hotel San Francesco, located in Via Giuseppe Ungaretti, n.2, 87036 Rende, Cosenza, phone 0984 461721, https://www.hsf.it/it/, is a partner hotel for the meeting and offers the following special rates (all room types include breakfast):
Single room 59,00 €
Double room (for single use) 65,00 €
Double room 79,00 €
Triple room 99,00 €

Shuttle Service 🚌

To facilitate your travel, a complimentary shuttle service will be available for all participants. The shuttle will depart from the hotel every morning to the conference venue and will provide a return service back to the hotel in the evening.

Social Event: Dinner & Party 🍗🕺

A social dinner and party will take place on November 5th at Fellini Restaurant Music , Via Trento, 15, 87100 Cosenza, phone: 351 503 8890, (https://www.instagram.com/fellinirestaurantmusic/) at 20:30
A Grand Tourism bus will leave from the Unical site and from Hotel San Francesco at 20:00
Please book your seat at the meeting registration desk. The total cost is 35,00 €. Payment must be made in cash at the meeting registration desk.

ABSTRACT SUBMISSION

Opening for abstract submission: 01/07/2026

Deadline for abstract submission: 15/10/2026

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

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 standard oral and flash communications. Authors of abstracts selected for an oral presentation will be informed via e-mail.

Awards 🥇

AICC will award best oral presentation(s) by authors younger than 35 years of age.

AICC will award best poster(s) by authors younger than 35 years of age.

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

How to reach the University of Calabria

🚗 By Car

Take the A2 motorway (Salerno-Reggio Calabria).
Take the Rende - Cosenza Nord exit.
Turn onto Strada Statale 18 (SS18) at the junction.
Follow the signs for University of Calabria.
The main campus entrance is just a short distance away.

🚂 By Train

Arrive at Paola Station.
Take a connecting train to Castiglione Cosentino Station.
This is the nearest station to the campus, situated about 2 km from the university. Local bus transport is available, and you can check the timetable via this link: http://www.amacospa.it/amaco/wp-content/uploads/2025/10/Libretto-Orari.pdf

✈️ By Flight

Use Lamezia Terme Airport (SUF) is the primary arrival point, located approximately 80 km from the university campus.
Ferrovie delle Calabria provides direct bus connections from the airport to both Cosenza Autostazione and the Rende University Campus; timetables can be checked via this link:
https://web.ferroviedellacalabria.it/file/orari/sacal-cosenza.pdf
Car rental options and taxi services are readily available at the airport terminal

WITH THE UNRESTRICTED GRANTS OF:

DMSC
Dipartimento di Medicina Sperimentale e Clinica

BECKMAN COULTER
Life Sciences

DBA
ITALIA

Haier Biomedical

Promega

ThermoFisher
SCIENTIFIC

euroclone®

MICROTECH
LA SCELTA LOGICA

CYTOSENS
CYTOSENS.COM

Sial

schaefer

PirOssigeno
SANITÀ

BIONOVA
TECHNOLOGIES

Mediemme

ASSOCIAZIONE ITALIANA DI COLTURE CELLULARI

SCIENTIFIC PROGRAM

PRECISION MEDICINE IN THE BIG DATA AGE: from basic science to clinically relevant insights through AI

Wednesday, 4th November

12.00 – 14.00 **Registration**

14.00 – 14.15 **Opening and Greetings:**
Rector of University of Calabria (UniCal)
Marcello Maggiolini
Maria Teresa Di Martino
Michele Caraglia

14.30 – 15.15 **OPENING KEYNOTE LECTURE**
The BAP1 Cancer Syndrome: discovery, mechanisms and clinical translation
Michele Carbone, *University of Hawaii Cancer Center*
Introduced by
Pierfrancesco Tassone*, Magna Graecia University of Catanzaro, Catanzaro, Italy*

SESSION I: Innovative Devices for Precision Medicine

Chairs: ***Caterina Mancarella & Michele Caraglia***

15.15 – 15.35 **Hybrid optical sensors for biomedical mass screening**
Luca De Stefano, *Unit of Naples-National Research Council, Naples, Italy*

15.35 – 15.55 **Exploiting point-of-care devices to boost diagnosis, treatment and follow-up in cancer**
Stefano Cinti, *University of Naples Federico II, Naples, Italy*

15.55 – 16.15 **Patient-derived organoids for precision oncology**
Federica Papaccio, *University of Salerno, Salerno, Italy*

16.15 – 16.35 **Metabolic plasticity and intercellular communication in tumour microenvironment**
Vincenzo Desiderio, *University of Campania L. Vanvitelli, Naples, Italy*

16.35 – 16.45 **Engineering Polymeric Microneedles for Biomedical Applications: From Curved-Surface Fabrication to Cytocompatible Functional Materials**
Camilla Casciello, *University "Federico II" of Naples, Naples, Italy*

16.45 – 16.55 **Endothelial senescence impairs the response of triple negative breast cancer to CDK4/6 inhibition**
Marianna Talia, *University of Calabria, Rende, Italy*

16.55 – 17.10 **Minibrains and Organoids: Beyond Conventional Cell Culture**
Miguel Mantilla, *Head of Business Development for the EMEA – ABM*

17.10 – 17.25 **Beyond 2D: the next generation of functional 3D models. Discover the CelVivo Clinostar System**
Annunziata Venuto*, Cytosens srl*

17.25 – 17.40 **Elevator pitch presentations**
Giovanni Nassa, *University of Salerno, Baronissi (SA), Italy*
Edoardo Pagliantini, *University of Florence, Florence, Italy*
Martina Perin*, University of Turin, Turin, Italy*
Emine Tasan, *University of Calabria, Rende, Italy*
Maria Roberta De Iesu, *University of Campania "L. Vanvitelli", Naples, Italy*

17.40 – 19.30 **Welcome cocktail**

Thursday, 5th November

SESSION II: AI-driven multiomics: from metabolomics to radiomics

Chairs: ***Chiara Riganti & Pasquale Zizza***

09.00 – 09.20 **Application of AI to clinical practice in pancreatic cancer and future directions**
Antonio Pea, *University of Verona, Verona, Italy*

09.20 – 09.50 **From Disease Models to Tumor Biomarker Prediction in Tissue: MALDI Imaging–Driven Spatial Omics in Translational Oncology**
Stefan Schmidt, *University of Mannheim, Mannheim, Germany*

09.50 – 10.10 **Synergy of Radiomics and Machine Learning: from non-invasive diagnosis to predicting treatment response**
Antonello Vidiri, *IRCSS Regina Elena, Rome, Italy*

10.10 – 10.40 **PLENARY LECTURE**
Real-time multiplexed clinical diagnostics with ultrasensitive nanophotonics biosensors
Laura Letchuga, *ICN2, Barcellona*

10.40– 11.05 **Coffee Break & Poster Session**

SESSION III: Accelerating Innovation in Precision Medicine

Chairs: ***Joanna Kopecka & Enrico De Smaele***

11.05 – 11.35 **Self-supervised learning identifies clinically important histomorphological features in Pancreatic Ductal Adenocarcinoma**
David Chang, *University of Glasgow, Glasgow, UK*

11.35 – 12.05 **Spatial Transcriptomic characterisation of Inflammatory bowel disease**
Craig Anthony Glastonbury, *Human Technopole, Milano, Italy*

12.05 – 12.35 **Epigenetic control of Genomic Integrity: BAP1 in Gene–Environment Interplay**
Ivano Amelio, *University of Kostanz, Kostanz, Germ*any

12. 35 – 12.45 **Targeting the MEX3A/RIG-I Axis as a Novel Therapeutic Strategy for Glioblastoma**
Giulia Ferri, Sapienza University of Rome, Rome, Italy

12.45 – 12.55 **Integrative TCR repertoire and computational antigen profiling identifies candidate targets for precision immunotherapy in prostate cancer**
Raffaella Gallo, *University Magna Græcia of Catanzaro, Catanzaro, Italy*

12.55 – 13.05 **Carboxylesterase 1 Is a Core Metabolic Vulnerability of Platinum-Resistant High-Grade Serous Ovarian Carcinoma**
Irene Flati, *University of L'Aquila, L'Aquila, Italy*

13.05 – 14.30 **Light Lunch & Poster Session**

Thursday, 5th November

SESSION IV: Biomarkers and AI: Driving the Future of Precision Medicine

Chairs: ***Nicla Lorito & Massimo Donadelli***

14.30 – 14.50 **Bridging Morphological Diagnosis and Treatment Response Prediction in Oncology**
Maria Raffaella Ambrosio, *University of Calabria (UniCal), Rende*, Italy

14.50 – 15.05 **From Bench to Clinically Relevant Insights: Scaled-Up Nanoparticles Purification and Single-Particle Characterization**
Caterina Severi, *Izon Science*

15.05 – 15.25 **Predictive Analytics and AI in robotic surgery: new frontiers and challenges**
Franca Melfi, *University of Calabria (UniCal), Rende,Italy*

15.25 – 15.40 **Beckman Coulter's New Solutions for the Flow Cytometry Laboratory**
Letizia D'Apice, *Beckman Coulter S.r.l.*

15.40– 15.50 **Circulating monocytes as a minimally invasive proxy of the tumor microenvironment in high-grade serous ovarian carcinoma**
Mariagrazia D'Agostino, *University of Bari Aldo Moro, Bari, Italy*

15.50– 16.00 **IRAK1 as a driver and druggable target of chemo-immunoresistance in NSCLC: from multi-omics analysis to precision medicine**
Iris Chiara Salaroglio, *University of Turin, Turin, Italy*

16.00– 16.25 **Coffee Break & Poster Session**

SESSION V: The Power of AI in Immuno-Oncology: Opportunities and Challenges

Chairs: ***Katia Scotlandi & Simone Di Franco***

16.25 – 16.55 **Immunogenic cell death fingerprinting, from AI to phenotype**
Oliver Kepp, Gustav Roussy, Paris, France

16.55 – 17.15 **Targeting of chemotactic receptors in the context of lung immunotherapy**
Silvano Sozzani, *Sapienza University of Rome, Rome, Italy*

17.15 – 17.35 **Correlation among (Epi)genomic profiling and clinical outcome in cancer patients treated with immunotherapy**
Giuseppe Palmieri, *University of Sassari and IRGB, CNR, Sassari, Italy*

17.35 – 17.45 **AI-Driven cfDNA Profiling for Immunotherapy Response Assessment in Advanced Melanoma**
Alessia Maria Cossua, *University of Campania "L. Vanvitelli", Naples, Italy*

17.45 – 19.30 **AICC assembly**

20.30 **Social Event**

Friday, 6th November

SESSION VI: BiG DATA and AI for Next-Generation Medicine

Chairs: ***Andrea Morandi & Silvia Zappavigna***

09.20 – 09.40 **Data analysis and AI techniques and models in Medicine**
Domenico Talia, *University of Calabria (UniCal), Rende, Italy*

09.40 – 10.10 **Foundation models in medicine: how to integrate big data and AI for clinical insights**
Alberto Paderno, *Humanitas University, Milan, Italy*

10.10 – 10.30 **AI-driven biomedical data manipulation: uncovering hidden secrets**
Pierangelo Veltri, *University of Calabria (UniCal), Rende, Italy*

10.30 – 10.40 **Proteomic identification of HSP90 Interactors as Potential Targets for Drug Repurposing in Platinum-Resistant Ovarian Cancer**
Sofia Piscitelli, *IRCCS - "G. Pascale" Foundation, Naples, Italy*

10.40 – 10.50 **Integrated molecular characterization of patient-derived models identifies a motility-associated EphA2-positive cell state and supports EphA2 targeting in CIC::DUX4 sarcoma**
Elisa Simonetti, *Rizzoli Orthopaedic Institute IRCCS, Bologna, Italy*

10.50 – 11.20 **Coffee Break**

11.20 – 11.50 **Elevator pitch presentations (8 x 3 min) #2**
Sara Bellardinelli, *Sapienza University of Rome, Rome*
Davide Di Felice, *University of L'Aquila, L'Aquila*
Alessia Febbrariello, *University of Campania "L. Vanvitelli", Naples*
Cecilia Foglini, *Orthopaedic Institute IRCCS, Bologna*
Katia Grillone, *University of Magna Graecia, Catanzaro*
Maha Munir, *University of Magna Graecia, Catanzaro*
Erika Siani, *University of Calabria, Rende*
Sofia Spadafora, *University of Calabria, Rende*

CLOSING SESSION

Chairs: ***Francesca Zazzeroni & Marta Moretti***

11.50 – 12.35 **CLOSING LECTURE**
Longitudinal genomic prediction of chronic metabolic diseases
Nicole Soranzo, *Human Technopole, Milano, Italy*

12.35 – 13.00 **Awards Ceremony and Closing Remarks**