



THE FUTURE OF CANCER THERAPY: THE GENOME EDITING ERA

8-9th June 2017



University Magna Græcia, Catanzaro (Italy)

Aula Magna C
1° Level Building G

**PRELIMINARY
PROGRAMME**

PRESENTATION

In June 2017, the Italian Association for Cell Cultures (AICC) have organized focused meeting dedicated to “Genome Editing”. During the meeting several national and international experts in the field will discuss this interesting technical innovation and its possible applications in basic, translational research and design of novel anti-cancer therapy. Genome editing is a technology that induces specific changes in the DNA of a cell or organism that allows studying their influence in the determination of the phenotypic characteristics. The meeting aims to transfer to the participants the know-how on the currently available methods to induce changes in the DNA of a cell system and how to use them to accurately study the function of different genes, to understand how they work and their definitive biological effects. The meeting will also illustrate several cell and animal models, and will end with a practical demonstration of advanced models for the study of different human diseases in order to design innovative therapeutic approaches. With these specific objectives, the meeting has been approved by Italian Ministry of Health for Continuous Education and Training in medical, biological, pharmaceutical and technological areas.

Maria Teresa Di Martino

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Stefania Meschini, Evelin Pellegrini

Board of Directors and Secretary AICC

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E-mail meeting: aicc.umg@unicz.it

- 10.00 Registration
- 10.30 Introduction: **Pierosandro Tagliaferri, Pierfrancesco Tassone**
Greetings from the Chancellor and local authorities
**Pre-meeting: "Hot topics in Medical Oncology:
From genomics to molecular therapies of human cancer"**
Chairs: **Vito Barbieri** (*Catanzaro, Italy*) - **Marco Rossi** (*Catanzaro, Italy*)
- 11.00 PDL1 analysis and beyond in lung cancer immunotherapy
Umberto Malapelle (*Naples, Italy*)
- 11.20 New generation of kinase inhibitor in the continuum of care of thyroid and renal-cell cancer
Camillo Porta (*Pavia, Italy*)
- 11.40 CDK inhibitors: a new perspectives in breast cancer
Enrico Ricevuto (*L'Aquila, Italy*)
- 12.00 Liquid Biopsy in novel cancer treatment scenario
Marta Castiglia (*Palermo, Italy*)
- 12.20 Genomics of ovarian cancer in predictive oncology: the PARP inhibitors case
Ettore Capoluongo (*Rome, Italy*)
- 12.40 Discussion and closing remarks
- 13.00 Light lunch*
- 14.00 Opening ceremony
Greeting from AICC President **Katia Scotlandi** (*Bologna, Italy*)
Welcome and Meeting introduction **Maria Teresa Di Martino** (*Catanzaro, Italy*)
Session 1: CRISPR-Cas9-based therapeutic strategies against human diseases
Chairs: **Stefania Meschini** (*Rome, Italy*) - **Carlo Leonetti** (*Rome, Italy*)
- 14.30 TALEN gene edited cells for Allogeneic Adoptive Immunotherapy: from clean room to off-the-shelf
Roman Galetto (*Collectis SA, France*)
- 14.50 Genome editing of T lymphocytes for cancer immunotherapy
Chiara Bonini (*Milan, Italy*)
- 15.10 CRISPR/Cas9 mediated knock-out of RUNX2 in melanoma cells
Maria Teresa Valenti (*Verona, Italy*)
- 15.30 CRISPR/Cas9 rescue of gene dosage in patient-specific models of neurodevelopmental disorders caused by large CNV
Giuseppe Testa (*Milan, Italy*)
- 15.50 Functional genomic in cancer research
Simona Lamba (*Turin, Italy*)
- 16.10 Ultra-sensitive Quantification of Genome Editing Events by Droplet Digital PCR (ddPCR)
(NOT for ECM evaluation)
Letizia Ciccone (*Bio-Rad, Italy*)
- 16.25 Coffee Break*
- 16.45 CRISPR/Cas9 system on zebrafish to generate human disease model
Gianluca Deflorian (*Milan, Italy*)
- 17.05 The use of CRISPR/Cas9 knock-out technology in non-mammalian animal models
Thomas Vaccari (*Milan, Italy*)
- 17.25 CRISPR Gene Editing: Resources for High-Throughput Screening and Disease Models
Livio Loffarelli (*Thermo Fisher Scientific, Italy*)

17.45 Novel Technologies For Rapid Generation Of Custom Animal Models And Streamlined Cloning Workflows (NOT for ECM evaluation)

Matthew Wheeler, Kristofer Müssar (*Cyagen Biosciences GmbH, Europe*)

Close session and concluding remarks

June 9th 2017

Session 2: Insights in Genome Editing Technologies

Chairs: **Francesca Zazzeroni** (*L'Aquila, Italy*) - **Massimo Donadelli** (*Verona, Italy*)

9.00 Construction of sgRNA-Cas9 complexes and identification of single-cell mutations to determine editing frequency

Franco Martinez (*EuroClone, Italy*)

9.20 How to improve your CRISPR genome editing experiments

Mirko Vanetti (*Integrated DNA Technologies, Italy*)

9.40 Rapid and tunable method to temporally control gene editing based on conditional Cas9 stabilization

Vincenzo Corbo (*Verona, Italy*)

10.00 CRISPR/Cas9 for the study of the interactions between viral and cellular proteins

Donato Zipeto (*Verona, Italy*)

10.20 Targeted Genome Editing using CRISPR Technology (NOT for ECM evaluation)

Silvia Di Meglio (*Merck Sigma-Aldrich srl, Italy*)

10.35 Revealing genome editing induced metabolimic swithching using Agilent technologies solutions (NOT for ECM evaluation)

Emma Nora Di Capua (*Agilent, Italy/Spain*)

Close session and concluding remarks

10.50 Coffee Break*

Session 3: CRISPR-Cas9 perspectives in genome editing

Chairs: **Marcello Maggiolini** (*Cosenza, Italy*) - **Michele Caraglia** (*Naples, Italy*)

11.10 A non-integrative strategy to streamline the derivation of isogenic iPSC lines through the Cas9/sgRNARibonucleoproteic complex

Sebastiano Trattaro (*Milan, Italy*)

11.30 Epigenome deregulation and mining in leukemias

Lucia Altucci (*Naples, Italy*)

11.50 Genome editing in human repopulating hematopoietic stem cells

Pietro Genovese (*Milan, Italy*)

12.10 Genome editing and generation of physiologically relevant model of leukemogenesis

Giovanni Morrone (*Catanzaro, Italy*)

12.30 High efficiency Genome Editing using EnGenCRISPR/Cas9 Ribonucleoprotein Complexes (NOT for ECM evaluation)

Karl Von Laer (*New England Biolabs, Germany*)

12.45 Efficient delivery of Cas9 and gRNA for in vitro use of CRISPR/Cas9 technology (NOT for ECM evaluation)

Jelena Vjetrovic (*Polyplus Transfection, France*)

Close session and concluding remarks

13.00 Light lunch*

Session 4: Young investigators meeting and round table on genome editing

Poster Discussant: **Giuseppe Viglietto** (*Catanzaro, Italy*)

14.10 - 14.40 **Selected oral presentations**

14.50 **Round table**

Award Ceremony

FACULTY

Lucia Altucci (Naples, Italy)
Vito Barbieri (Catanzaro, Italy)
Chiara Bonini (Milan, Italy)
Ettore Capoluongo (Rome, Italy)
Michele Caraglia (Naples, Italy)
Marta Castiglia (Palermo, Italy)
Letizia Ciccone (Bio-Rad, Italy)
Vincenzo Corbo (Verona, Italy)
Gianluca Deflorian (Milan, Italy)
Emma Nora Di Capua (Agilent, Italy/Spain)
Maria Teresa Di Martino (Catanzaro, Italy)
Silvia Di Meglio (Merck Sigma-Aldrich srl, Italy)
Massimo Donadelli (Verona, Italy)
Roman Galetto (Collectis SA, France)
Pietro Genovese (Milan, Italy)
Simona Lamba (Turin, Italy)
Carlo Leonetti (Rome, Italy)
Livio Loffarelli (Thermo Scientific, Milan)
Marcello Maggiolini (Cosenza, Italy)
Umberto Malapelle (Naples, Italy)
Franco Martinez (EuroClone, Italy)
Stefania Meschini (Rome, Italy)
Giovanni Morrone (Catanzaro, Italy)
Katia Scotlandi (Bologna, Italy)
Kristofer Müssar (Cyagen Biosciences GmbH, Europe)
Camillo Porta (Pavia, Italy)
Enrico Ricevuto (L'Aquila, Italy)
Marco Rossi (Catanzaro, Italy)
Katia Scotlandi (Bologna, Italy)
Pierosandro Tagliaferri (Catanzaro, Italy)
Pierfrancesco Tassone (Catanzaro, Italy)
Giuseppe Testa (Milan, Italy)
Sebastiano Trattaro (Milan, Italy)
Thomas Vaccari (Milan, Italy)
Maria Teresa Valenti (Verona, Italy)
Mirko Vanetti (Integrated DNA Technologies, Italy)
Giuseppe Viglietto (Catanzaro, Italy)
Jelena Vjetrovic (*Polyplus Transfection, France*)
Karl Von Laer (New England Biolabs, Germany)
Matthew Wheeler (Cyagen Biosciences GmbH, Europe)
Francesca Zazzeroni (L'Aquila, Italy)
Donato Zipeto (Verona, Italy)

GENERAL INFORMATION

When:

Thursday 8th - Friday 9th, June 2017

Where

Magna Graecia University - Campus S. Venuta - Aula Magna C, 1° Level, Building G
Viale Europa - 88100 Catanzaro, Italy

Who

The meeting is open to: biologist, medical doctor, pharmacist, laboratory technician, biotechnologist, bioinformatics, researcher, PhD, student and Association.

Max Participants: 160

ECM Credits for 100 participants

A REGISTRATION QUOTE IS REQUESTED.

Travel and accommodation costs of participants are not included.

Travel grants or Poster awards will provided

CREDITI FORMATIVI ECM / CME CREDITS (FOR ITALIAN PARTICIPANTS ONLY)

I crediti formativi ECM sono certificati dal Provider secondo la nuova regolamentazione approvata dalla Commissione Nazionale per la Formazione Continua il 13 gennaio 2010 e s.m.i.

L'accreditamento del Congresso viene effettuato per l'intero evento in un'unica soluzione, incluso Pre-meeting.

Sono stati assegnati n. 10 (dieci) crediti formativi a Medici specialisti in Anatomia Patologica, Biochimica Clinica, Ematologia, Farmacologia e Tossicologia Clinica, Genetica Medica, Laboratorio di Genetica Medica, Medicina Interna, Microbiologia, Neurologia, Cardiologia, Oncologia, Patologia Clinica -Laboratorio di Analisi chimico-cliniche, Laureati in Biologia, Biotecnologie, Farmacia, CTF e Tecnici di Laboratorio Biomedico.

Provider ID 2112 - Evento n. 190433.

Si ricorda che avranno diritto ai crediti ECM solo coloro che saranno presenti almeno all'90% del programma scientifico congressuale accreditato.

La rilevazione delle presenze avviene tramite la firma su appositi registri posizionati presso il Registration Desk. L'assenza di una sola delle firme necessarie determinerà l'impossibilità di assegnazione dei crediti. Nel materiale congressuale è incluso anche il modulo di valutazione dell'evento da compilare e consegnare alla fine del Meeting.

REGISTRATION FEES (VAT included)

AICC Member € 120,00

Non-Member € 170,00 (€ 120,00+50,00 mandatory membership fee)

Student € 50,00 (membership fee)

The registration fee includes:

- Conference kit
- Participation in the Scientific Sessions
- Attendance Certificate
- Admission to the Opening Ceremony, coffee break and lunch.

** Please indicate to the Secretariat any food intolerances.*

How to register

The registration and payment forms are available on line at the website: **www.aicc.website**

For general information please see the websites: **www.aicc.website**

ABSTRACT SUBMISSION

The Scientific Committee encourage all participants to submit their work to be considered for oral or poster presentation. All works should be submitted as 350 words abstract indicating

- o oral presentations
 - o poster presentations (70w x 100h cm)
- The Scientific Committee will select the oral presentations for

TO BE NOTED: for each accepted abstract, the registration fee of at least one of the Authors will be required. Each author can be entitled to be “presenting author” of one abstract only.

ADDITIONAL GENERAL INFORMATION

LANGUAGE: The official language of the Meeting is English.

SLIDES: Slides must be in English. Computer videoprojection will be available in Power Point. Slides should be given to the slide center one hour before the beginning of the session.

ATTENDANCE CERTIFICATE: A certificate will be sent to all participants at the end of the Meeting.

PRACTICAL INFORMATION: How to reach the meeting venue

By air: From International Airport Lamezia Terme, the Campus can be reached by car in about 35 min. Proceed along the SS280 direction Catanzaro, take the exit for Germaneto, continue along Viale Europa.

By bus: from Catanzaro railway station take local public transport, routes 47 or 48 and from Catanzaro Lido railway station route 46 (for timetables visit the website www.amcspa.it).

By car: from Catanzaro 15 minutes roughly: proceed along the SS280 direction Lamezia Terme, take the exit to Germaneto, continue along Viale Europa. From A3 motorway, exit Lamezia Terme - Catanzaro, the Campus can be reached in about 35 min.: proceed along the SS280 direction Catanzaro, take the exit to Germaneto, continue along Viale Europa. From Soverato 25 min. roughly: proceed along the Ionian highway 106 northwards up to the intersection of Catanzaro Lido, turn to direction Lamezia Terme, continue along Viale Europa.

Shuttle service from/to Lamezia Terme airport and railway station is available on request.

HOTEL ACCOMMODATION

Hotel accommodation can be reserved in Catanzaro through the Organizing Secretariat that has selected hotels with negotiated rates. Agencies or companies in need for group reservations can address their request to info@organizzazionechronos.it not later 30 April 2017. Rooms will be allocated on a first come - first served basis. After the indicated deadline accommodation cannot be guaranteed although will make every effort to meet the participants' requests upon availability. In order to avoid disappointment, early bookings are recommended. No telephone reservation will be accepted.

TERMS OF PAYMENT

Please note that your registration and/or hotel reservation cannot be processed without payment. Please submit your payment information together with the completed registration form you have to pay to:

Registration to: AICC (Associazione Italiana Colture Cellulari): <http://www.aicc.website/>

Hotel reservation to: Administrative Secretariat “Present & Future” - BANCA NUOVA spa - V.le Pio X 67/69 88100 Catanzaro - IBAN IT83Y0513204401824570363682 - Swift code: BPVIIT31824

The participant's and sender's names must be clearly indicated on the transfer order as well as the payment purposes. The copy of the payment advice must be sent together with the registration form

ATTENTION: Registrations can be considered valid only after having received the payment. Forms without proof of payment will not be processed.

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COME RAGGIUNGERE LA SEDE DEL CONVEGNO



In aereo:

Dall'Aeroporto internazionale di Lamezia Terme (SUF), si raggiunge in auto in circa 35 min.: procedendo lungo la SS280 dei due mari direzione Catanzaro, prendere lo svincolo per Germaneto, proseguire lungo Viale Europa.

In auto:

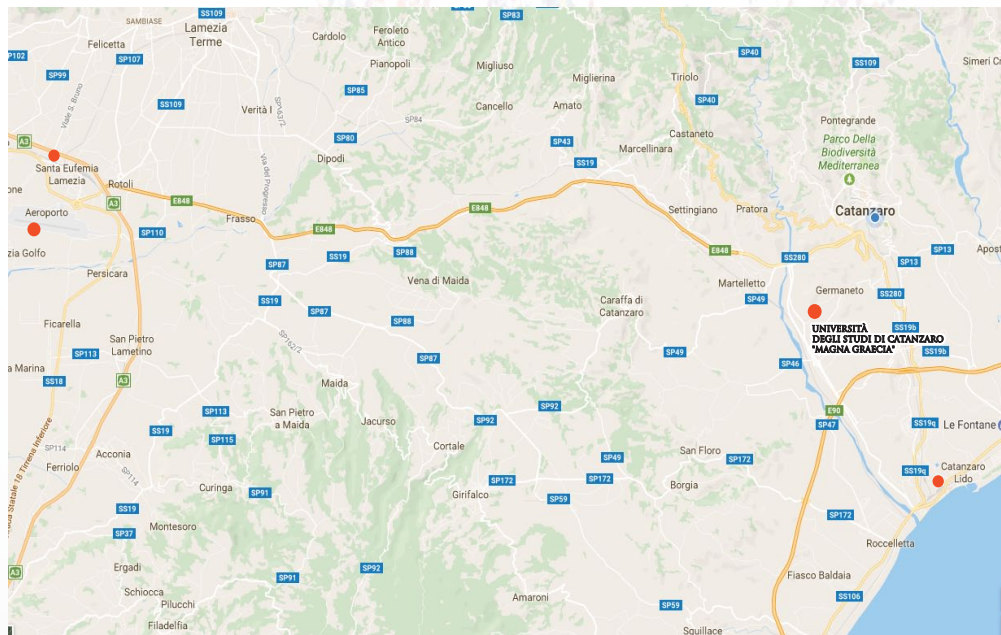
Dal centro storico di Catanzaro in circa 15 minuti: procedendo lungo la SS280 dei due mari direzione Lamezia Terme, prendere lo svincolo per Germaneto, proseguire lungo Viale Europa.

Dall'autostrada A3, uscita Lamezia Terme - Catanzaro, si raggiunge in circa 40 min.: procedendo lungo la SS280 dei due mari direzione Catanzaro, prendere lo svincolo per Germaneto, proseguire lungo Viale Europa.

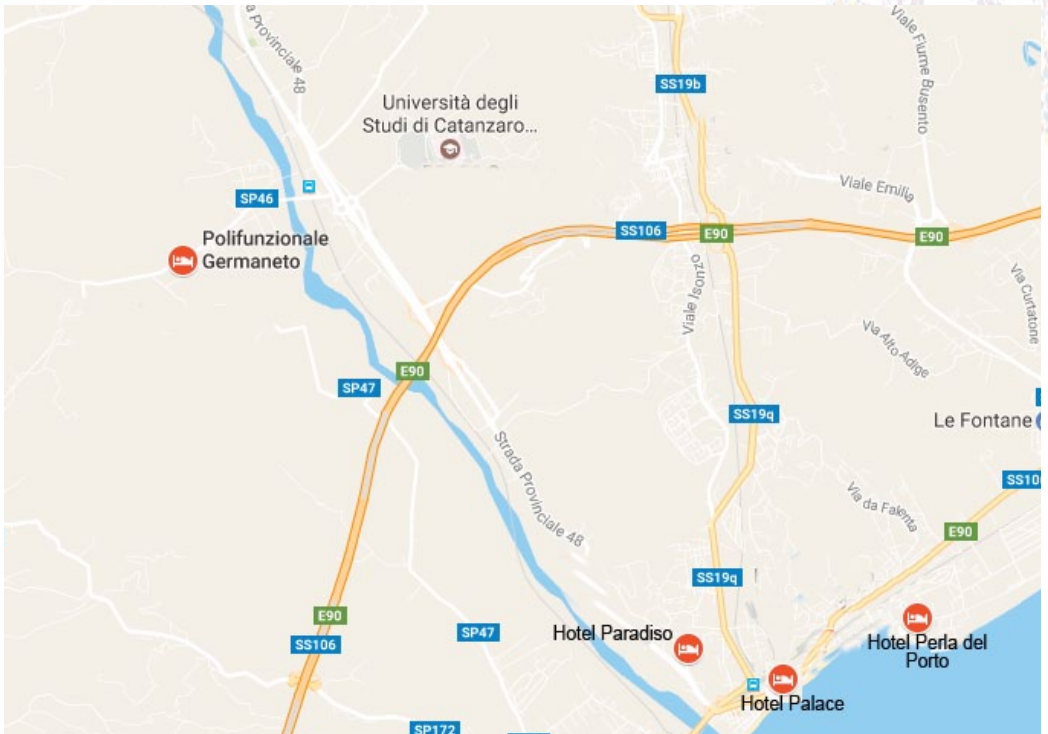
In treno:

Dalla stazione di Catanzaro (destinazioni e orari si possono trovare sul sito web di Trenitalia, www.trenitalia.com), usufruire dei trasporti pubblici locali, linee 47 o 48 (AMC, www.amcsa.it).

Dalla stazione di Catanzaro Lido (destinazioni e orari si possono trovare sul sito web di Trenitalia, www.trenitalia.com), usufruire dei trasporti pubblici locali, linea 46 (AMC, www.amcsa.it).



HOTEL ACCOMODATION



BEST WESTERN PLUS Hotel Perla Del Porto
Via Martiri di Cefalonia, 64, 88100 Catanzaro

Hotel Palace
Via Lungomare Stefano Pugliese, 221, 88100 Catanzaro

Hotel Paradiso:
Viale Europa 2, 88100 Catanzaro (Italy)

Polifunzionale Germaneto:
Strada Provinciale 46 per San Floro
Loc. Difesa, snc, 88050 Caraffa di Catanzaro CZ

LOCAL ORGANIZING COMMITTEE

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Mariamena Arbitrio
Vito Barbieri
Cirino Botta
Maria Teresa Di Martino
Giovanni Morrone
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ORGANIZING SECRETARIAT



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