



ASSOCIAZIONE ITALIANA  
DI COLTURE CELLULARI  
Onlus



UNIVERSITÀ DEGLI STUDI DI VERONA  
Dipartimento Scienze della Vita e della Riproduzione  
Sezione di Chimica Biologica

# 27<sup>th</sup> Annual Conference of Italian Association of Cell Cultures (ONLUS-AICC)

**OXIDATIVE STRESS AND CELL DEATH:  
IMPLICATIONS IN CHRONIC-DEGENERATIVE  
PROCESSES AND CANCER**

**5<sup>th</sup> International Satellite Symposium  
AICC-GISM**

**ADVANCES IN MESENCHYMAL  
STEM CELL RESEARCH**

Sala Congressi Banco Popolare  
Viale delle Nazioni, 4 - Verona  
November 12<sup>th</sup>-14<sup>th</sup> 2014

27<sup>th</sup>  
Annual Conference

## Scientific Committee

Michele Caraglia\*, Second University of Naples  
Massimo Donadelli, University of Verona  
Sonia Emanuele\*, University of Palermo  
Carlo Leonetti\*, Regina Elena Cancer Institute, Rome  
Enrico Lucarelli, Rizzoli Orthopedic Institute, Bologna  
Stefania Meschini\*, National Health Institute, Rome  
Marta Palmieri, University of Verona  
Augusto Pessina\*, University of Milan  
Aldo Scarpa, University of Verona  
Katia Scotlandi\*, Rizzoli Orthopedic Institute, Bologna  
Rosanna Supino\*, National Cancer Institute, Milan  
Francesca Zazzeroni\*, University of L'Aquila

\*AICC Executive Board

## Scientific Secretariat

Giulia Biondani, University of Verona (giulia.biondani@univr.it)  
Elisa Dalla Pozza, University of Verona (elisa.dallapozza@univr.it)  
Ilaria Dando, University of Verona (ilaria.dando@univr.it)  
Massimo Donadelli, University of Verona (massimo.donadelli@univr.it)  
Claudia Fiorini, University of Verona (claudia.fiorini@univr.it)  
Tel.: +39 045 8027174; +39 045 8027281; +39 045 8027179  
Fax: +39 045 8027170

For additional information visit website: [www.onlus-aicc.org](http://www.onlus-aicc.org)

## Organizing Secretariat

### **COGEST M. & C. Srl**

Vicolo San Silvestro, 6 - 37122 Verona  
Tel. +39 045 597940 - Fax +39 045 597265  
E-mail: [cogest@tin.it](mailto:cogest@tin.it) - [www.cogest.info](http://www.cogest.info)

## Venue

### **Sala Congressi Banco Popolare**

Viale delle Nazioni, 4 - 37135 Verona

# Presentation of the Conference

The Conference aims to present and discuss new findings emerged from the study of the mechanisms responsible for cell proliferation, programmed cell death, and autophagy with particular attention paid to the involvement of reactive oxygen species and of microRNAs. This knowledge is a basic precondition for directing research in oncology towards new possible targets for molecular identification of possible novel therapeutic approaches for the treatment of cancer. The Conference is divided into four sessions. The first is centered on the mechanisms of programmed cell death and on autophagy. As well as classical apoptosis, which for several years has been studied in the field of oncology, different types of cell death such as autophagy, recently linked to the regulation of tumor proliferation, can be activated in an attempt to selectively target cancer cells. This session aims to highlight how particular compounds can activate alternative pathways of cell death and how they acquire significance when tumor cells manifest phenomena of classical apoptosis resistance. The second session covers the production of reactive oxygen species and the control of cellular oxidative stress in tumors. It is well known that many chemotherapeutic agents of clinical use are able to stimulate cellular production of reactive oxygen species. This session considers the pros and cons of this phenomenon by discussing the latest scientific findings concerning the relationship between reactive oxygen species and inflammatory processes, resistance to chemotherapy and toxicity. The third session is focused on the role of microRNAs in the control of gene expression and in the pathogenesis of neoplastic diseases. In recent years the study of the alteration of the expression of microRNAs and their role in tumor development have been gradually increasing. The control of gene expression resulting from microRNAs is now an essential field of study and of scientific experimentation aimed at opportunely guiding the identification of new therapeutic targets and of new and specific cancer biomarkers. Finally, the fourth session is dedicated to one of the most topical and debated issue in the field of cancer research: cancer stem cells and personalized targeted-therapy of tumors. Since recent time is in fact known that a tumor mass can be composed of a large number of cells capable of proliferating only in a limited way and of a small population of cells (cancer stem cells) capable of proliferating for a long time maintaining the tumor and manifesting resistance to conventional chemotherapy treatments. In the same session, the most innovative cancer therapies that lead to the development of new personalized therapies of tumors will be discussed. As part of this Conference, the Italian Group Mesenchymal Stem Cells (GISM) is organizing the International Satellite Symposium aimed to discuss and deepen the study of mesenchymal stem cells which, due to their ease of isolation, expansion, and functional versatility are having a great interest in many clinical applications. In particular, GISM symposium is addressed to discuss the possible therapeutic use of mesenchymal stem cells in cardiovascular and neurologic diseases and to deeply discuss novel techniques for cellular reprogramming. AICC hopes that this Conference will provide an opportunity for interactions between Italian researchers, but also foreigners, allowing possible collaborations and insights in the field of molecular oncology and of mesenchymal stem cell applications.

# Scientific Programme

## November 12<sup>th</sup>, 2014 (Wednesday)

- 14.00 Registration and Poster positioning
- 14.30 Greetings of Authorities
- 15.00 **OPENING LECTURE**  
**InterNET (Neutrophil Extracellular Trap) death connects autoimmunity and cancer**  
*Mario Colombo, Milano*
- 15.45 *Coffee Break*
- SESSION 1**  
**Autophagy and apoptosis in cell survival control**  
*Chairpersons: Massimo Donadelli, Verona - Stefania Meschini, Roma*
- 16.15 **Pharmacological interaction of everolimus and chloroquine in the modulation of autophagy/apoptosis in endothelial progenitor cells**  
*Anna Grimaldi, Napoli*
- 16.35 **Dissecting the role of Mitofilin and OPA1 in the cristae remodelling event and apoptosis**  
*Maria Eugenia Soriano, Padova*
- 16.55 **Synergistic effect of the HDAC inhibitor SAHA and the sesquiterpene lactone parthenolide in triple negative breast cancer cells**  
*Antonella D'Anneo, Palermo*
- 17.15 Free communications (4)
- 17.55 General discussion
- 18.05 Meeting AICC Members

# Scientific Programme

## November 13<sup>th</sup>, 2014 (Thursday)

### SESSION 2

#### **Reactive oxygen species: friend or foe?**

*Chairpersons: Sonia Emanuele, Palermo - Marta Palmieri, Verona*

- 9.00 **Stress tumorigenesis and angiogenesis: our experience**  
*Antonio Barbieri, Napoli*
- 9.20 **Homocysteine, H<sub>2</sub>S and endothelial dysfunction: role of inflammation and metalloproteases**  
*Diego Ingrosso, Napoli*
- 9.40 **ROS as conspirators for cancer malignancy: implication for cell motility, stemness and metabolic deregulation**  
*Paola Chiarugi, Firenze*
- 10.00 Free communications (2)
- 10.20 General Discussion
- 10.30 *Coffee Break*

### SESSION 3

#### **Role of microRNAs in cell proliferation and survival**

*Chairpersons: Paola Chiarugi, Firenze - Francesca Zazzeroni, L'Aquila*

- 10.50 **miRNA therapeutics a new frontier for the experimental treatment of multiple myeloma**  
*Pierfrancesco Tassone, Catanzaro*
- 11.10 **Gain-of-function activities of natural mutants of p53 in human cancers: role in gene and microRNA transcriptional deregulation**  
*Silvia Di Agostino, Roma*
- 11.30 **Role of miR34a as indicator of prognosis in sarcomas**  
*Katia Scotlandi, Bologna*
- 11.50 Free communications (3)
- 12.20 General Discussion
- 12.30 AICC 2014 Awards Ceremony
- 13.30 *Lunch and Poster session*



# Scientific Programme

## November 13<sup>th</sup>, 2014 (Thursday)

### SESSION 4

#### **Cancer stem cells and targeted-therapy**

*Chairpersons: Michele Caraglia, Napoli - Aldo Scarpa, Verona*

- 15.00 **Next generation histopathology and cancer stem cells**  
*Aldo Scarpa, Verona*
- 15.20 **Cancer integromics: a physician opinion**  
*Pierosandro Tagliaferri, Catanzaro*
- 15.40 **G-quadruplex DNA structure as target for antitumoral therapy**  
*Pasquale Zizza, Roma*
- 16.00 **The evolving concept of cancer stem cells, a tangled topic in the molecular biology and clinic of cancer**  
*Roberto Scatena, Roma*
- 16.20 Free communications (2)
- 16.40 General Discussion
- 16.50 *Coffee Break*
- 17.10 **MAIN LECTURE**  
**Evolution of target therapy and personalized cancer therapy**  
*Giampaolo Tortora, Verona*
- 17.30 **Intervention of a pharmaceutical company** (*non - CME certified*)
- 17.50 Presentation of the 5th International Satellite Symposium AICC-GISM

# Scientific Programme

November 14<sup>th</sup>, 2014 (Friday)

## 5<sup>th</sup> International Satellite Symposium AICC-GISM ADVANCES IN MESENCHYMAL STEM CELL RESEARCH

9.00 **OPENING LECTURE**

**Mesenchymal Stromal Cells: from biology to standardisation**

*Mauro Krampere, Verona*

### SESSION 1

**Cardiovascular diseases**

*Chairpersons: Giulio Alessandri, Milano - Maria Luisa Torre, Pavia*

9.30 **Mesenchymal Stem Cells: paracrine mechanisms in heart repair**

*Massimiliano Gnecci, Pavia*

9.50 **Mechanisms of Cardiac Stem Cell senescence in heart failure**

*Antonio Beltrami, Udine*

10.10 **Bone marrow-derived mesenchymal Stem Cells reduce arteriotomy-induced stenosis in rat carotids**

*Umberto Galderisi, Napoli*

10.30 General Discussion

10.40 Free communications (2)

11.00 *Coffee Break*

### SESSION 2

**Neurological diseases**

*Chairpersons: Maura Ferrari, Brescia - Enrico Lucarelli, Bologna*

11.20 **Mesenchymal Stem Cells and Parkinsonism**

*Gianni Pezzoli, Milano*

11.40 **Mesenchymal Stem Cells nanovesicles: innovative therapeutic approach for neuroprotection and neuroregeneration**

*Bruno Bonetti, Verona*

12.00 **Mesenchymal Stem Cells in amyotrophic lateral sclerosis**

*Franca Fagioli, Torino*

12.20 General Discussion

12.30 Free communications (3)

13.00 *Lunch*

5<sup>th</sup>  
International Satellite

# Scientific Programme

- 14.00 **MAIN LECTURE**  
**Identification of novel molecules controlling differentiation of human skeletal (stromal, mesenchymal) Stem Cells to osteoblasts**  
*Kassem Moustapha, Odense, Denmark*
- SESSION 3**  
**Mesenchymal Stromal Cells reprogramming**  
*Chairpersons: Laura De Girolamo, Milano - Augusto Pessina, Milano*
- 14.30 **Generating disease-specific induced pluripotent Stem Cells (iPSCs) in a Biobank facility for genetic disease modelling**  
*Domenico Coviello, Genova*
- 14.50 **A chemical approach to cell reprogramming**  
*Luigi Anastasia, Milano*
- 15.10 **Induced pluripotent stem cell for studying development and diseases**  
*Nicola Elvassore, Padova*
- 15.30 Free communications (2)
- 15.50 General Discussion
- 16.00 POSTER AWARDS
- 16.20 Closing remarks



# General Information

## ORGANIZING SECRETARIAT

### COGEST M. & C. Srl

Vicolo San Silvestro, 6

37122 VERONA

Tel. +39 045 597940 - Fax +39 045 597265

E-mail: [cogest@tin.it](mailto:cogest@tin.it) - [www.cogest.info](http://www.cogest.info)

## CONFERENCE & SYMPOSIUM VENUE

Both events will be held in **Centro Servizi - Banco Popolare di Verona**, with access from Viale delle Nazioni, 4 (South Verona).

## HOW TO REACH THE CONFERENCE & SYMPOSIUM VENUE

### By car

Motorways A4 (Milan-Venice) and A22 (Brennero-Modena): exit "Verona Sud" and take the underpass which leads to Viale delle Nazioni. After 100 meters turn left in Viale delle Nazioni n° 4. Parking area near the venue.

### By train

From Verona Porta Nuova railway station the meeting venue is easily reachable by public bus n° 61 (ZAI direction), stop Viale delle Nazioni, 2. Please check the ATV timetable by visiting this link: <http://www.atv.verona.it/flex/cm/pages/ServeBLOB.php/L/EN/IDPagina/607>

Taxis are available outside the railway station. The fare to Viale delle Nazioni is about 8,00 Euro. Travel time approximately 5 minutes.

### By Plane

Valerio Catullo Airport in Verona-Villafranca is conveniently located approximately 12 km far from the Conference and symposium venue (around 20 minutes away).

The airport is connected to Verona Porta Nuova railway station by a shuttle bus that leaves every 20 minutes; the station is situated 1,5 km far from Viale delle Nazioni and about 2 km from the city centre ([www.aeroporto.verona.it](http://www.aeroporto.verona.it)).

## REGISTRATION FEES (V.A.T. INCLUDED)

27 <sup>th</sup> Annual Conference of Italian Association of Cell Cultures (ONLUS-AICC)		
Description	Early Rate	Late Rate
<b>Registration fee</b> (V.A.T. included)	<b>Extended till October 7, 2014</b>	<b>From October 8, 2014</b>
<b>AICC, GIC and SCR Italy Member</b>	€ 150,00 (€ 122,95 + 22% V.A.T.)	€ 200,00 (€ 163,93 + 22% V.A.T.)
<b>Non-Member</b>	€ 200,00 (€ 122,95 + 22% V.A.T. + € 50,00 mandatory membership fee <sup>1</sup> )	€ 250,00 (€ 163,93 + 22% V.A.T. + € 50,00 mandatory membership fee <sup>1</sup> )
<b>PhD Student</b>	€ 120,00 (€ 57,38 + 22% V.A.T. + € 50,00 mandatory membership fee <sup>1</sup> )	€ 170,00 (€ 98,36 + 22% V.A.T. + € 50,00 mandatory membership fee <sup>1</sup> )
<b>Student</b>	€ 50,00 (€ 40,98 + 22% V.A.T.)	€ 80,00 (€ 65,57 + 22% V.A.T.)

<sup>1</sup>AICC membership automatically assigned by registering to the event

The registration fee includes the following:

attendance at the 27<sup>th</sup> Annual Conference of Italian Association of Cell Cultures (ONLUS-AICC) and at the 5<sup>th</sup> International Satellite Symposium AICC-GISM, conference kit, coffee breaks, lunches, CME credits for the assignees.

# General Information

5 <sup>th</sup> International Satellite Symposium AICC-GISM		
Description	Early Rate	Late Rate
<b>Registration fee</b> (V.A.T. included)	<b>Extended till October 7, 2014</b>	<b>From October 8, 2014</b>
<b>AICC, GIC and SCR Italy Member</b>	<b>€ 50,00</b> (€ 40,98 + 22% V.A.T.)	<b>€ 90,00</b> (€ 73,77 + 22% V.A.T.)
<b>Non-Member</b>	<b>€ 100,00</b> (€ 40,98 + 22% V.A.T. + € 50,00 mandatory membership fee)	<b>€ 140,00</b> (€ 73,77 + 22% V.A.T. + € 50,00 mandatory membership fee)

\*AICC membership automatically assigned by registering to the event

The registration fee includes the following:

attendance at the 5<sup>th</sup> International Satellite Symposium AICC-GISM, conference kit, coffee breaks, lunches, CME credits for the assignees.

## HOW TO REGISTER

### PAYMENT INFORMATION

You are kindly requested to fill in the attached registration form, to sign and send it by e-mail to [segreteria@cogest.info](mailto:segreteria@cogest.info) or by fax 0039 045 597265. COGEST M. & C. will send you an official receipt for the payment and further organizing information.

### Information for bank transfer

Bank transfer to be made to COGEST M. & C., IBAN IT49H0200811705000005233961, BIC SWIFT UNCRITM1M03, on UNICREDIT BANCA AGENCY Piazza Bra 26/e, Verona Italy, specifying the title of the event and the surname of the person you are making the payment for.

### Online payment

Following the instructions at: <http://www.cogest.info/congressi/pagamento.php>  
(Payment with VISA or MASTERCARD credit card only)

### Acknowledgement of registration

Registration will be acknowledged by written confirmation only after receipt of full payment. If you do not get confirmation of your registration, please contact [segreteria@cogest.info](mailto:segreteria@cogest.info).

### Cancellation and refunds

Cancellation of registration will be possible until 25<sup>th</sup> October 2014. Fees refunding, minus the administrative fees (40,00 €), will be processed after the events. However, transfer of registration to another person will be accepted.

## ABSTRACT

### Deadline of Abstract submission extended till 7<sup>th</sup> October

**Abstract topics** (the abstract should include one or more of the following topics)

- Cancer cell proliferation, apoptosis, autophagy
- Regulation of reactive oxygen species
- MicroRNAs
- Cancer Stem Cells
- Cancer target therapy
- Mesenchymal Stem Cells

### Abstract designation

The Scientific Committee reserves the right to designate the abstract format (oral or poster). The final acceptance decision is the exclusive right of the Scientific Committee.

# General Information

## Selection criteria

The Abstracts will be evaluated and scored by a panel of Referees (selected by the Scientific Committee) according to their novelty and significance.

## Abstract Submission Instructions

Abstracts must adequately describe the objectives and results so that the quality, originality and completeness of the work can be evaluated. Each abstract must contain the following items:

**OBJECTIVE:** indicate primary purpose of study

**MATERIALS AND METHODS:** description of data sources, subjects, design measurements and data analysis

**RESULTS:** summary of results

**CONCLUSION:** statement of the study's conclusion and/or implication of the results

## Format

Font: Times New Roman, 12 point font size, single spaced

Word Limit: 300 words (this applied to the main body of the abstract only and excludes the abstract titles and authors)

References should not be included in the abstract

Use of standard abbreviations is desirable

Language: English

## Information for filling out the Abstract form

Please fill out the form completely. To make the reviewing procedure fully anonymous, do not include references by any of the authors involved in the second sheet of the form. All fields are mandatory and must be filled out for a submission to be valid. The name of the first author on the abstract form is assumed to be the contact person for the abstract. Please make certain the first author's email is typed correctly so that reviewers can contact presenters for acceptance.

## E-mail submission form

Complete the Abstract Submission form. Attach/upload the .doc or .docx copy of your abstract and send it to [segreteria@cogest.info](mailto:segreteria@cogest.info) and to [massimo.donadelli@univr.it](mailto:massimo.donadelli@univr.it). Please write in the subject line of your e-mail your SURNAME, followed by your NAME followed by a dash "-" and the word "Submission".

If you make more than one submission, please number them and e-mail them separately.

For example, the subject line of each of two submissions for Tom Smith would be:

Smith Tom-Submission1

Smith Tom-Submission2

If Tom Smith only had one submission the subject line of his email would be:

Smith Tom-Submission.

Attach the completed form to the email. Please name the attached submission form in the same manner as the subject line of your email (for example, the Word file name for submission form will be Smith Tom-Submission). Once the abstract is submitted, the first author will receive an email message confirming receipt of the Abstract. If such a receipt is not received within 24 hours, please contact [segreteria@cogest.info](mailto:segreteria@cogest.info)

At least one of the authors has to be registered.

## TRAVEL GRANTS

AICC will assign 8 travel grants of € 700,00 each to the 8 best abstracts presented as posters. The researcher has to be the first author and has to be less than 35 years old at the time of the Conference. On all the awards in money it will be performed, by law, a tax deduction as income tax. If you wish to take part in the contest, please fill in the appropriate box in the abstract form.

# General Information

## POSTER AWARDS

3 prizes of € 1.000,00 euro each will be assigned to the first author of the 3 best oral communications presented as a poster, which author must be younger than 35 years old at the Conference date.

## ECM - CME (CONTINUING MEDICAL EDUCATION) - Only for Italian participants

**PROVIDER: COGEST M. & C. - COD. 979**

### 27<sup>th</sup> Annual Conference of Italian Association of Cell Cultures (ONLUS-AICC)

CME accreditation will be requested to AGENAS for a maximum of 200 participants among Medical Doctors (*specialties*: Oncology), Biologists, Pharmacists.

### 5<sup>th</sup> International Satellite Symposium AICC-GISM

CME accreditation will be requested to AGENAS for a maximum of 200 participants among Medical Doctors (*specialties*: Cardiology, Neurology and Oncology), Biologists, Pharmacists.

## OFFICIAL LANGUAGES

27<sup>th</sup> Annual Conference of Italian Association of Cell Cultures (ONLUS-AICC): Italian

5<sup>th</sup> International Satellite Symposium AICC-GISM: English

## HOTEL RESERVATION

In order to make hotel reservation participants are kindly requested to visit the Organizing Secretariat COGEST M. & C. website <http://www.cogest.info/congressi/index.php>

## B&B

There is also a large variety of unique and homely B&B in Verona. Please see the Bed & Breakfast Association of Verona website [www.veronabedandbreakfast.it](http://www.veronabedandbreakfast.it)

# Endorsement





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Sezione di Chimica Biologica



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