27th Annual Conference of Italian Association of Cell Cultures (ONLUS-AICC)

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

5th International Satellite Symposium AICC-GISM
ADVANCES IN MESENCHYMAL STEM CELL RESEARCH

Verona, Sala Congressi Banco Popolare
November 12th-14th 2014
Scientific Committee

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For additional information visit website: www.onlus-aicc.org

Organizing Secretariat

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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.
November 12th, 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
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, H2S 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
November 13th, 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
November 14th, 2014 (Friday)

5th International Satellite Symposium AICC-GISM
ADVANCES IN MESENCHYMAL STEM CELL RESEARCH

9.00 OPENING LECTURE
Mesenchymal Stromal Cells: from biology to standardisation
Mauro Krampera, Verona

SESSION 1
Cardiovascular diseases
Chairpersons: Giulio Alessandri, Maria Luisa Torre

9.30 Mesenchymal Stem Cells: paracrine mechanisms in heart repair
Massimiliano Gnecchi, 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, Enrico Lucarelli

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
14.00  **GUEST 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, Augusto Pessina

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
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.aeroportoverona.it].

REGISTRATION FEES (VAT INCLUDED)

<table>
<thead>
<tr>
<th>Category</th>
<th>Full fee: Early registration (extended till 7th October 2014)</th>
<th>Full fee: Late registration (from 8th October 2014)</th>
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</thead>
<tbody>
<tr>
<td>AICC, GIC and SCR Italy Member</td>
<td>€ 122,95+22% V.A.T. = € 150,00</td>
<td>€ 163,94+22% V.A.T. = € 200,00</td>
</tr>
<tr>
<td>Non-Member</td>
<td>€ 163,94+22% V.A.T. = € 200,00</td>
<td>€ 204,92+22% V.A.T. = € 250,00</td>
</tr>
<tr>
<td>PhD Student</td>
<td>€ 98,36+22% V.A.T. = € 120,00</td>
<td>€ 139,35+22% V.A.T. = € 170,00</td>
</tr>
<tr>
<td>Student</td>
<td>€ 40,98+22% V.A.T. = € 50,00</td>
<td>€ 65,57+22% V.A.T. = € 80,00</td>
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</tbody>
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The registration fee includes the following: attendance at the 27th Annual Conference of Italian Association of Cell Cultures (ONLUS-AICC) and at the 5th International Satellite Symposium AICC-GISM, conference kit, coffee breaks, lunches, CME credits for the assignees.
“One day” fee for the International Symposium (Friday 14th November 2014)

<table>
<thead>
<tr>
<th>Category</th>
<th>Member Fee (incl. VAT)</th>
<th>Non-Member Fee (incl. VAT)</th>
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<tbody>
<tr>
<td>Early registration (until 30th September 2014)</td>
<td>€ 40,98 + 22% V.A.T. = € 50,00</td>
<td>€ 81,97 + 22% V.A.T. = € 100,00</td>
</tr>
<tr>
<td>Non-Member</td>
<td>€ 81,97 + 22% V.A.T. = € 100,00</td>
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The registration fee includes the following:
- attendance at the 5th 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 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.

Cancellation and refunds
Cancellation of registration will be possible until 25th 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 7th 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.

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 and to 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
At least one of the authors has to be registered.

TRAVEL GRANTS

During the Conference, 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. The awards will be delivered during the Award Ceremony directly to the winners [delegation for collection is not allowed – the possible absence will cause disqualification from the contest]. If you wish to take part in the contest, please fill in the appropriate box in the abstract form.
POSTER AWARDS
During the Conference 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
27th 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.

5th 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
27th Annual Conference of Italian Association of Cell Cultures (ONLUS-AICC): Italian
5th International Satellite Symposium AICC-GISM: English

HOTEL RESERVATION
In order to make hotel reservation, participants are kindly requested to contact the Organizing Secretariat COGEST M. & C. (e-mail: cogest@tin.it)

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