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# 2016 GISM ANNUAL MEETING

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20-21 OCTOBER 2016

BRESCIA

Centro Pastorale Paolo VI

Via Gezio Calini, 30

  
Gruppo Italiano Staminali Mesenchimali

 ISTITUTO ZOOPROFILATTICO SPERIMENTALE  
DELLA LOMBARDIA E DELL'EMILIA ROMAGNA  
"BRUNO UBERTINI"  
ENTE SANITARIO DI DIRITTO PUBBLICO

 FONDAZIONE  
POLIAMBULANZA  
Istituto Ospedaliero



# PRESENTATION

The GISM annual meeting will take place in Brescia (Italy) from 20 to 21 October 2016 at the Centro Paolo VI with the support of the Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna (IZSLER) and of the Fondazione Poliambulanza, Centro di Ricerca "E. Menni" di Brescia.

The meeting will cover some of the hottest topics in the field of MSCs.

During the meeting, themes like isolation, expansion and application of adipose tissue-derived MSCs will be discussed, as well as the role of MSCs in cancer progression and the main biological properties of MSCs secretome, including extracellular vesicles.

A specific session will be dedicated to the 3R principle (Replacement, Reduction, Refinement) applied to both animal models and in vitro studies. During the Joint Session with the Italian Society of Diabetology (SID) we will discuss the role of MSCs in diabetes too.

All these topics will be presented by world-class speakers in six scientific sessions, providing an interdisciplinary forum that has the aim to bring together clinical and basic researchers to exchange, share and discuss the latest findings, in order to promote cross-disciplinary collaborations.

At the end of the meeting the three best posters will be awarded with the "Young investigator Award" (500 euro), to encourage our youngest members to continue to invest in their research activity and education.

We look forward to meeting you in Brescia,  
yours sincerely,

Augusto Pessina, GISM President  
Maura Ferrari, GISM Vice President  
Enrico Lucarelli, GISM Secretary

## SCIENTIFIC BOARD

**Giulio Alessandri**, Istituto Neurologico C. Besta, Milano

**Anna Brini**, Università degli Studi, Milano

**Stefano Cinotti**, IZSLER, Brescia

**Laura de Girolamo**, Istituto Ortopedico Galeazzi, Milano

**Serena Duchi**, Istituto Ortopedico Rizzoli, Bologna

**Maura Ferrari**, IZSLER, Brescia

**Ivana Ferrero**, Città della Salute e della Scienza, Torino

**Enrico Lucarelli**, Istituto Ortopedico Rizzoli, Bologna

**Maddalena Mastrogiacomo**, Università degli Studi, Genova

**Maurizio Muraca**, Università degli Studi, Padova

**Ornella Parolini**, Fondazione Poliambulanza, Brescia

**Luisa Pascucci**, Università degli Studi, Perugia

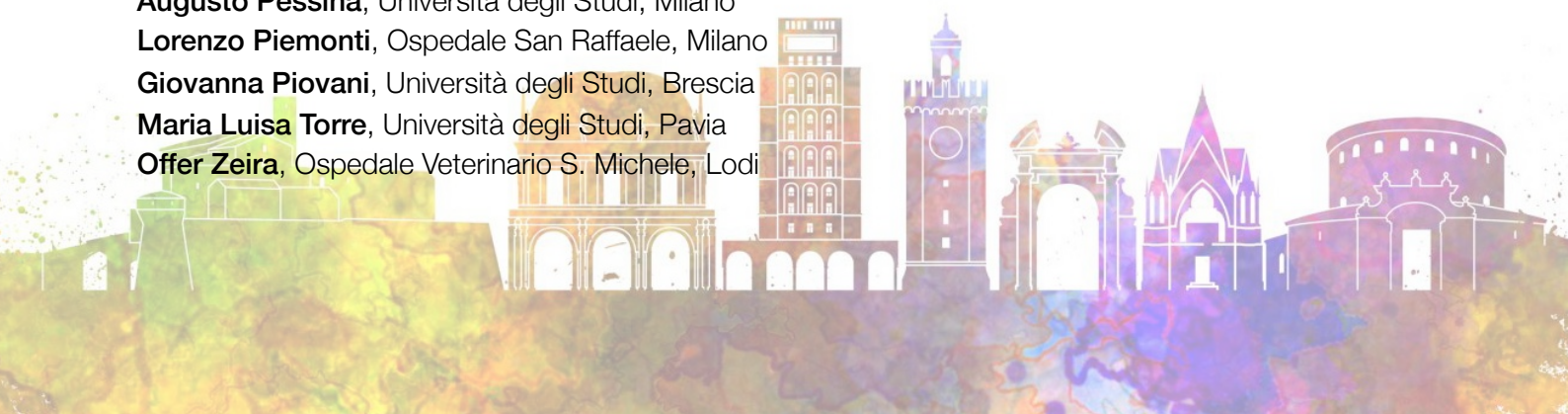
**Augusto Pessina**, Università degli Studi, Milano

**Lorenzo Piemonti**, Ospedale San Raffaele, Milano

**Giovanna Piovani**, Università degli Studi, Brescia

**Maria Luisa Torre**, Università degli Studi, Pavia

**Offer Zeira**, Ospedale Veterinario S. Michele, Lodi





# SCIENTIFIC PROGRAM

October 20, 2016

**13.00 Registration**

**14.00 Meeting Opening**

**14:30 - 16:00 Session 1: Adipose Tissue Derived MSCs “culture”**

***Chairs: Maurizio Muraca, Laura de Girolamo***

**14.30 - 14.50** Defining the identity of human adipose-derived mesenchymal stem cells

**Lorenza Lazzari, Milano, Italy**

**14.50 - 15.10** Frozen adipose-derived mesenchymal stem cells maintain high capability to grow and differentiate

**Gianni Soldati, Lugano, Switzerland**

**15.10 - 15.30** 3-Dimensional culture of adipose-derived stem cells on scaffolds for cardiovascular applications

**Gianluca Ciardelli, Torino, Italy**

**15.30 - 16.00 Discussion & Free Communications**

**16.00 - 16.30 Coffee Break**

**16.30 - 18.00 Session 2: Adipose Tissue Derived MSCs “clinical application”**

***Chairs: Giovanna Piovani, Anna Brini***

**16.30 - 16.50** Human Microfractured Fat from Weak Mechanical Forces: A Tissue Product with a Pericyte-embedding Niche Ready for Autologous Use

**Carlo Ventura, Bologna**

**16.50 - 17.10** Adipose-Derived Therapeutic Factor Concentrate for Treating Critical Limb Ischemia

**Vaclav Prochazka, Ostrava, Czech Republic**

**17.10 - 17.30** Human Adipose Stem Cell secretome modulates cytokine balance and relieves painful symptoms in preclinical models of neuropathic pain

**Paola Sacerdote, Milano, Italy**

**17.30 - 17.50** Potential of intra-articular injection of lipoaspirate as a one-step strategy in cartilage defects repair: in vitro results

**Michela Bosetti, Novara, Italy**

**17.50 - 18.30 Discussion and Free Communication**

**18.30 GISM Members' Assembly**

**19.15 Happy Hour**



October 21, 2016

**9.00 - 9.30 Lectio magistralis**

**Mesenchymal stromal cells and the tumour cell niche: a multimodal activity**

**Francesco Dazzi, London, UK**

**9.30 - 10.30 Session 3: MSC and Tumor cells**

***Chairs: Enrico Lucarelli, Giulio Alessandri***

**9.30 - 9.50** New therapeutic tools targeting PDGFr- $\beta$  and CXCR4 hamper BM-MSC recruitment and activity into tumor microenvironment

**Antonella Zannetti, Napoli, Italy**

**9.50 - 10.10** Bidirectional signaling in the regulation of pro-tumorigenic activities of bone marrow-derived mesenchymal stem cells in osteosarcoma

**Paola Chiarugi, Firenze, Italy**

**10.10 - 10.30 Discussion & Free Communications**

**10.30 - 11.00 Coffee Break**

**11.00 - 12.30 Session 4: MSC and 3R strategy**

***Chairs: Maura Ferrari, Ivana Ferrero***

**11.00 - 11.20** I principi delle 3R e la normativa nazionale sull'utilizzo degli animali a fini scientifici

**Giovanni Botta, Roma, Italy**

**11.20 - 11.40** Uso delle colture cellulari in accordo con il principio delle 3R

**Isabella De Angelis, Roma, Italy**

**11.40 - 12.00** Animal models of neurodegenerative diseases and stem cell transplantation: a thing of the past or a requisite for clinical studies?

**Alessandro Vercelli, Torino, Italy**

**12.00 - 12.30 Discussion & Free Communications**

**12.30 - 14.00 poster session view**

**13.00 Lunch**

**14.00 - 15.00 Session 5: MSC and diabetes**

***JOINT SESSION GISM-SID ( Società Italiana Diabetologia)***

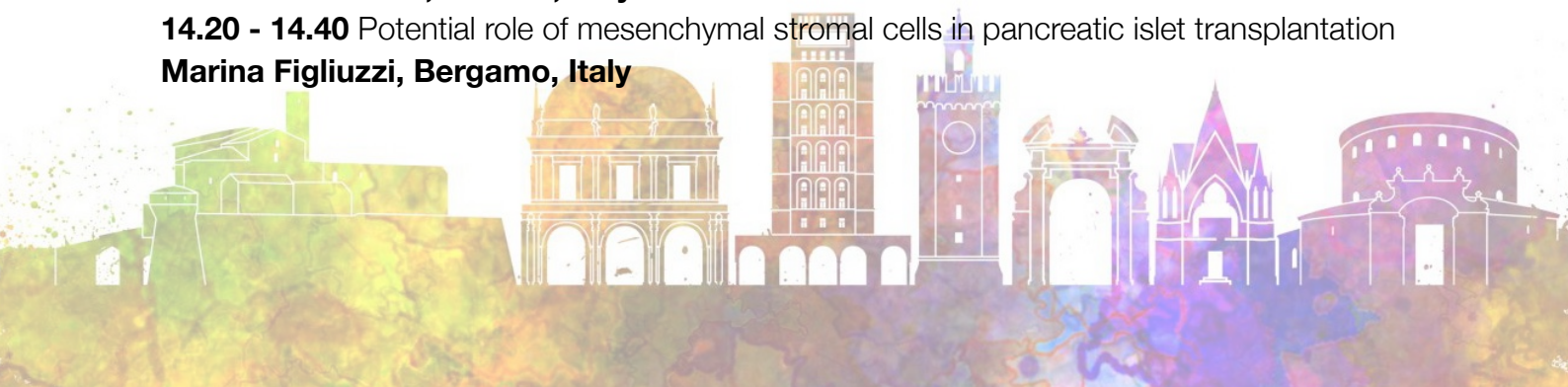
***Chairs: Lorenzo Piemonti, Augusto Pessina***

**14.00 - 14.20** Diabetes mellitus: an opportunity for therapy with mesenchymal stem cells?

**Lorenzo Piemonti, Milano, Italy**

**14.20 - 14.40** Potential role of mesenchymal stromal cells in pancreatic islet transplantation

**Marina Figliuzzi, Bergamo, Italy**





**14.40 - 15.00** Role of mesenchymal stem cell-derived microvesicles in microvessel (de)stabilization and diabetic retinopathy

**Elena Beltramo, Torino, Italy**

**15.00 - 15.30 SESSION: NEW TECHNOLOGIES**

***Chairs : Maddalena Mastrogiacomo, Maria Luisa Torre***

**15.00 - 15.15** Dynamic light scattering for nanoparticle characterization

**Jorg Stucki, Krefeld, Germany**

**15.15 - 15.30** ISOCeLL PRO workstation for cell therapy product and clinical applications

**Cristina Zanini, Pero (MI), Italy**

**15.30 -17.10 Session 6: MSCs Secretome**

***Chairs: Ornella Parolini, Luisa Pascucci***

**15.30 - 15.50** Raman spectroscopy for the label-free characterization of mesenchymal stem cell derived microvesicles

**Alice Gualerzi, Milano, Italy**

**15.50 - 16.10** Characterization of RNA cargo of MSC-derived exosomes

**Francesca Perut, Bologna, Italy**

**16.10 - 16.30** Secretome released from amniotic derived progenitor cells: therapeutic implication in veterinary medicine

**Anna Lange Consiglio, Milano, Italy**

**16.30 - 17.10 Discussion & free communications**

***17.10 Young Investigator Awards and Closing Remarks***



# ORGANIZING SECRETARIAT

Formazione, Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna "Bruno Ubertini"

Via Cremona, 284 - 25124 Brescia, tel 030 2290 - 230/330/333/379

email: [formazione@izsler.it](mailto:formazione@izsler.it) - <http://www.izsler.it>

## Registration Procedure

Instruction can be found at the site [www.gismonline.com](http://www.gismonline.com)

In brief: enter the website <http://formazione.izsler.it>

The procedure requires personal information and email address.

Go to "Registrati al portale", insert fiscal code and all the requested information. If you need a support please contact the Organizing Secretariat.

After registration enter username and password assigned. In case you forget them, please go to "Reimpostazione password".

Username and password can be also used to download certification of attendance and other material related to the meeting.

## Registration Fee (Vat Included)

### Early registration (until 2nd October 2016)

GISM Member € 90,00

AICC and SID Member € 90,00 (including € 50,00 of mandatory membership fee)

Non-Member € 140,00 (€ 90,00 + € 50,00 of mandatory membership fee)

Young Investigators (under 30 years of age) € 100,00 (€ 50,00 + € 50,00 of mandatory membership fee)

### Late registration (from 2nd October 2016 to onsite)

GISM Member € 120,00

AICC and SID Member € 120,00 (including € 50,00 of mandatory membership fee)

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

Young Investigators (under 30 years) € 120,00 (€ 70,00 + € 50,00 of mandatory membership fee)

The registration fee includes: attendance at the 2016 GISM Annual Meeting sessions, the conference kit, coffee breaks and lunches.

## Payment

In order to attend the meeting you must be a member of the Gruppo Italiano Staminali Mesenchimali.

Payment must be made with bank transfer, no credit card are accepted. The bank transfer must be made in favor of Gruppo Italiano Staminali Mesenchimali.

Bank account 130961, BANCA PROSSIMA-Milano

IBAN: IT09X0335901600100000130961

BIC (or SWIFT): BCITITMX

Please specify that you want to attend the 2016 GISM meeting, your name and last name and whether you are a young investigator or not. Copy of the Bank receipt must be mailed to: [marina.torre@unipv.it](mailto:marina.torre@unipv.it) (Maria Luisa Torre, Università di Pavia)



# GENERAL INFORMATION

## ABSTRACT SUBMISSION DEADLINE: 16 September 2016

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. The Abstracts will be evaluated and scored by a panel of Referees (selected by the Scientific Committee) accordingly 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 be prepared as follows:

OBJECTIVE: indication of primary purpose of the study.

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

RESULTS: summary of the main findings.

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

## Format

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

Word Limit: 450 words (this is applied to the main body of the abstract only, abstract title and authors are not included in word count).

References should not be included in the abstract.

Use of standard abbreviations is desirable.

Language: English.

## Young Investigator Award

GISM will assign 3 "Young Investigator Award" of 500 euros each, to the first author of the best 3 posters or communications who is under 35 years of age at the date of the meeting. As prescribed by law, a tax deduction as income tax will be applied. The awards will be delivered during the Award Ceremony directly to the winners (delegation for collection is not allowed – the absence of the winner will cause disqualification from the contest). To take part in the contest, please fill in the appropriate box in the abstract form.

## How to Reach the Congress Venue

Centro Pastorale Paolo VI ,Via Gezio Calini, 30, 25100 Brescia

<http://www.centropastoralepaolovi.it>

See the way: <http://www.centropastoralepaolovi.it/dovesiamo.htm>

