

# 2018 GISM ANNUAL MEETING

APRIL 12-13  
2018

gis  
Gruppo Italiano Staminali Mesenchimali

Palazzo del Monte  
Frumentario  
Assisi (PG)



Collaborazione della

CITTÀ DI  
ASSISI  
SERAPHICA CIVITAS



ISTITUTO ZOOPROFILATTICO SPERIMENTALE  
DELL'UMBRIA E DELLE MARCHE "TOGO ROSATI"



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**Giulio Alessandri**, *Istituto Neurologico C. Besta, Milano*  
**Anna Brini**, *Università degli Studi, Milano*  
**Laura de Girolamo**, *Istituto Ortopedico Galeazzi, Milano*  
**Maura Ferrari**, *Brescia*  
**Ivana Ferrero**, *Città della Salute e della Scienza, Torino*  
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**Luisa Pascucci**, *Università degli Studi, Perugia*  
**Augusto Pessina**, *Università degli Studi, Milano*  
**Maria Luisa Torre**, *Università degli Studi, Pavia*

## ***LOCAL ORGANIZING COMMITTEE***

**Luisa Pascucci**, *Università degli Studi, Perugia*  
**Riccardo Calafiore**, *Università degli Studi, Perugia*  
**Piero Ceccarelli**, *Università degli Studi, Perugia*  
**Rita Romani**, *Università degli Studi, Perugia*  
**Carla Marini**, *IZSUM, Perugia*  
**Stefano Petrini**, *IZSUM, Perugia*  
**Giulio Severi**, *IZSUM, Perugia*

# ***PRESENTATION***

The GISM annual meeting will take place in Assisi (Italy) on April 12, and 13, 2018 at Palazzo Frumentario with the support of the University of Perugia, Comune di Assisi, Istituto Zooprofilattico Sperimentale dell'Umbria e delle Marche "Togo Rosati", Department of Veterinary Medicine of Perugia. Assisi was intentionally selected to give to groups in central Italy an opportunity to showcase their research and to give to the meeting the breathtaking atmosphere of the town.

Along the last years the knowledge on the biological properties of Mesenchymal Stromal Cells (MSCs) has significantly increased being recognized that their capacity to regulate tissue regeneration is also related to paracrine mechanisms mediated by soluble molecules and extracellular vesicles. This produced a remarkable attraction to investigate their therapeutic capacity in many field as documented by more than 500 clinical trials managed worldwide.

In this context, the GISM meeting will cover some of the hottest clinical application of the MSCs. In particular, four sessions will be dedicated to the clinical application in neuropathology, gastroenterology, cardiology and respiratory diseases. Two sessions will focus on key issues and solutions of the clinical application of MSCs and to new technological advancements. Finally, a specific session will be dedicated to the veterinary clinical experience.

All these topics will be presented by world-class speakers with the intent to promote an interactive discussion and eventually to facilitate inter-disciplinary collaborations.

The best three posters will be awarded with the "Young investigator Award" (500 €) to encourage the attendance of the youngest members of our community.

We look forward to meeting you in Assisi.

Yours sincerely,

**Augusto Pessina**, GISM President  
**Maura Ferrari**, GISM Vice President  
**Enrico Lucarelli**, GISM Secretary  
**Luisa Pascucci**, Local Organizing Committee

# ***SCIENTIFIC PROGRAM***

***Thursday April 12, 2018***

***14.00 Registration***

***15.00 Meeting Opening***

***Augusto Pessina, GISM President***

***Luisa Pascucci, Local Organizing Committee***

***Invited Authorities: Franco Moriconi, Rector of the University of Perugia***

***Luca Mechelli, Director of the Dpt. of Veterinary Medicine, Perugia***

***Silvano Severini, General Director of IZSUM***

***Stefania Proietti, Mayor of Assisi***

***15.30-16.40 SESSION 1: MSCs PERSPECTIVES IN NEUROPATHOLOGY***

***Chairpersons: Anna Brini, Ivana Ferrero***

***15.30-15.50 Mesenchymal stromal cells loaded with Paclitaxel as cell-based therapy for glioblastoma***

***Roberto Pallini, Catholic University, Roma***

***15.50-16.10 Mesenchymal stromal cells for traumatic brain injury: experimental data and clinical perspectives***

***Elisa Zanier, Mario Negri Institute, Milano***

***16.10-16.30 Mesenchymal stem cells in neurodegenerative diseases: immunomodulation and neuroprotection***

***Katia Mareschi, AOU Città della Salute e della Scienza, Torino***

***16.30-16.40 Discussion***

***16.50-18.00 SESSION 2: MSCs IN GASTROENTEROLOGY***

***Chairpersons: Riccardo Calafiore, Augusto Pessina***

***16.50-17.10 MSCs for the treatment of Inflammatory Bowel Disease (IBD): the preclinical phase***

***Maurizio Muraca, University of Padova***

***17.10-17.30 MSC in immune-mediated intestinal diseases: ready for the clinical use?***

***Rachele Ciccocioppo, University of Verona***

***17.30-17.50 Microencapsulated human adult mesenchymal stem cells for the cell therapy of type 1 diabetes mellitus***

***Riccardo Calafiore, University of Perugia***

***17.50-18.00 Discussion***

***18.00-18.30 TECHNOLOGICAL SESSION***

***18.00-18.10 Cell Factories design: safety as a key factor***

***Mario Conconi, SIAD Healthcare S.p.A, Italy***

**18.10-18.20** A validated and customized software platform for Cell Factories  
*Claudia Ottardi, Gruppo SOL S.p.A., Italy*

**18.20-18.30** Discussion

**18.30-20.00** *GISM MEMBERS' ASSEMBLY AND ELECTION OF NEW COUNCIL*

**20.00** *HAPPY HOUR*

***Friday April 13, 2018***

**8.50-9.40** *LECTIO MAGISTRALIS*

MSC: "one" cell, multiple dynamic phenotypes (an adaptive cell or a case of multiple personalities disorder?)

*Diego Correa, University of Miami, Miller School of Medicine, USA*

**9.40-10.50** *SESSION 3: MSCs IN CARDIOLOGY*

**Chairpersons:** *Laura De Girolamo, Milena Mastrogiacomio*

**9.40-10.00** Cell-based therapies for myocardial repair and regeneration in ischemic heart disease and heart failure

*Rosalinda Madonna, University of Chieti*

**10.00-10.20** Cardiac mesenchymal cells role in arrhythmogenic cardiomyopathy

*Giulio Pompilio, Centro Cardiologico Monzino, Milano*

**10.20-10.40** Mending broken hearts from within: reactivating endogenous regeneration via the stem cell secretome

*Sveva Bollini, University of Genova*

**10.40-10.50** Discussion

**11.00-12.20** *SESSION 4: MSCs IN RESPIRATORY DISEASES*

**Chairpersons:** *Giulio Alessandri, Enrico Lucarelli*

**11.00-11.20** The clinical use of regenerative therapy in obstructive pulmonary disease (COPD)

*Luigino Calzetta, University of Roma Tor Vergata*

**11.20-11.40** Experimental and clinical airway restoration by MSC transplantation

*Francesco Petrella, European Institute of Oncology, Milan*

**11.40-12.00** MSC-based treatment of cystic fibrosis: preclinical studies and challenges ahead

*Massimo Conese, University of Foggia*

**12.00-12.10** Discussion

**12.10-12.50** *SESSION 5: MSCs PITFALLS AND PERSPECTIVES*

**Chairpersons:** *Maurizio Muraca, Maria Luisa Torre*

**12.10-12.30** Updating clinical trials with MSCs

*Umberto Galderisi, Università della Campania*

**12.30-12.50** The dark and the light side of advanced therapy medicinal products  
Guido Pantè, *AIFA, Roma (invitato, in attesa di conferma)*

### ***12.50-14.30 LUNCH AND POSTER SESSION***

### ***14.30-17.00 SESSION 6: MSCs IN VETERINARY MEDICINE***

**Chairpersons:** Maura Ferrari, Luisa Pascucci

**14.30-14.50** MSCs in Veterinary Medicine: why and how do they work?  
Eleonora Iacono, *University of Bologna*

**14.50-15.10** An update on MSCs-based therapies in Veterinary Medicine, between reality and perspectives  
Stefano Grolli, *University of Parma*

**15.10-15.30** MSCs in practice: preparation, distribution, quality controls and regulation  
Silvia Dotti, *IZSLER, Brescia*

### ***Clinical Experiences***

**15.30-15.45** MSCs in veterinary oncology: a therapy for animals and a model for humans  
Offer Zeira, *Ospedale Veterinario San Michele, Lodi*

**15.45-16.00** Can I treat my pet with stem cells? Clinical experiences and related issues  
Maurizio Del Bue, *Libero professionista, Parma*

**16.00-16.15** MSCs in horses: an overview on their application in orthopedic injuries  
Raffaello Ciampoli, *Libero professionista, Siena*

**16.15-16.30** MSCs in the management of muscular injuries in Bovine patients  
Piero Boni, *Libero professionista, Perugia*

**16.30-17.00** Discussion

### ***17.00 GISM HAS GOT TALENTS: YOUNG INVESTIGATOR AWARDS***

### ***CLOSING REMARKS***

On April 14<sup>th</sup>, GISM will offer to participants a FREE guided tour of the three main churches of Assisi (San Francesco, San Rufino and Santa Chiara).  
The tour will last about 3 hours and will take place in the morning.

# ***GENERAL INFORMATION***

## ***ABSTRACT SUBMISSION DEADLINE: February 15, 2018***

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) according to their novelty and significance.

## ***Abstract Submission Instructions***

Abstracts must adequately describe the objectives and results. Originality, study quality and completeness of the work will 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 the main findings.

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

### **FORMAT**

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

Word Limit: 450 words (this must be applied to the main body of the abstract only. Abstract, title and authors are excluded)

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. In order to be eligible to win, the first author of poster must be younger of 35 on April the 13th 2018.

Posters size: 70 cm wide X 100 cm high.

The awards will be delivered during the Award Ceremony directly to the winner (delegation for collection is not allowed – the possible absence will cause disqualification from the contest). To take part in the contest, please fill the appropriate box in the abstract form.

## ***REGISTRATION FEES (VAT INCLUDED)***

ONLY GISM MEMBER WHO HAVE REGULARLY PAID THE 2018 MEMBERSHIP FEE (€ 50) ARE ALLOWED TO ATTEND THE MEETING

### ***Early registration (until March the 3rd, 2018)***

- GISM Member € 90,00
- AICC Member € 90,00
- Non-Member € 140,00 (€ 90,00 + € 50,00 mandatory membership fee)
- Young Investigators (under 35 years) € 100,00 (€ 50,00 + € 50,00 mandatory membership fee)
- Veterinary Session Fee (Friday 13 afternoon) € 50,00 (free for GISM members)

### ***Late registration (after March 3rd, 2018)***

- GISM Member € 120,00
- AICC Member € 120,00
- Non-Member € 170,00 (€ 120,00 + € 50,00 mandatory membership fee)
- Young Investigators (under 35 years) € 120,00 (€ 70,00 + € 50,00 mandatory membership fee)
- Veterinary Session Fee (Friday 13 afternoon) € 50,00 (free for GISM members)

The registration fee includes the followings: attendance at the 2018 GISM Annual Meeting, conference kit, coffee breaks, lunches.

**A special fee of € 50,00 (mandatory membership fee) will be applied to attend the Veterinary Session on Friday 13 (14.30-17.00).**

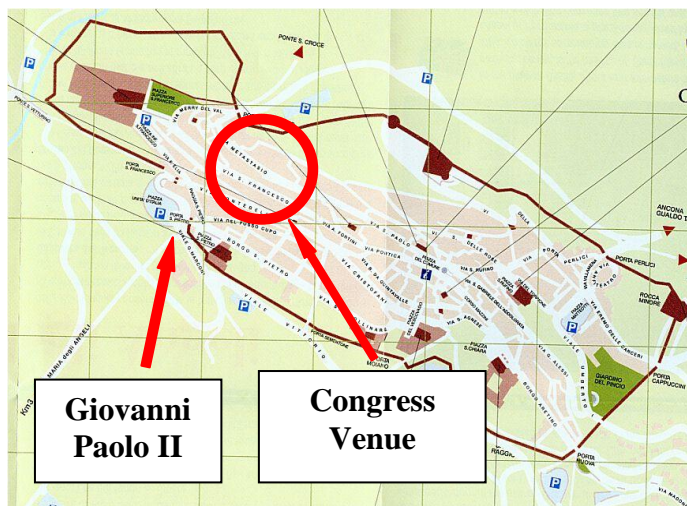
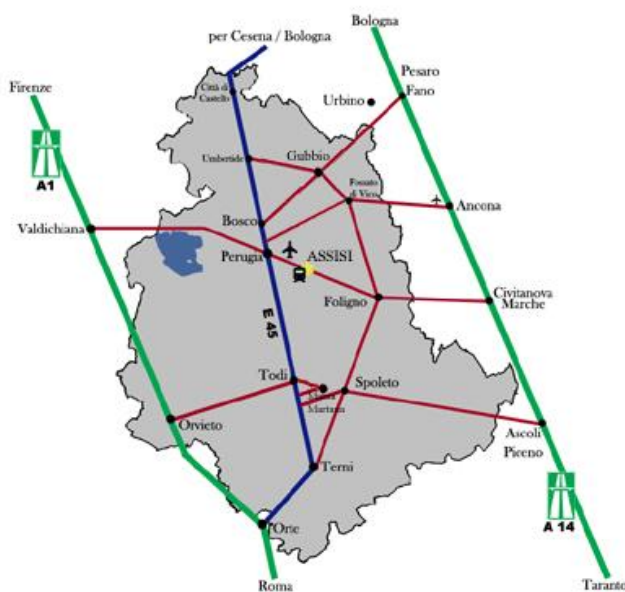
## ***HOW TO REACH ASSISI***

### **BY CAR:**

**Coming from North:** leave the A1 highway at Valdichiana, then go on towards Perugia, cross the city by E45 and go on towards Assisi/Foligno. Exit at Santa Maria degli Angeli/Assisi;

**Coming from South:** leave the A1 highway at Orte, then go on towards Perugia by E45 and exit at Santa Maria degli Angeli/Assisi.

The closest car park is “Giovanni Paolo II”. The daily fee is € 12.00.



## BY TRAIN:

**Coming from North:** a new high speed train (Turin – Milan –Bologna – Florence-Perugia) will be available by February. At the central station of Perugia, take the regional train to Assisi.

**Coming from South:** take the "Roma - Ancona" train to Foligno, then change to "Foligno - Perugia - Terontola".

At the Assisi train station, named Santa Maria degli Angeli, a coach service leaving every 40 minutes is available. Info: Azienda Perugina della mobilità S.p.A. (APM) Free number 800-512141 – Tel. +39 75 5067894.



## BY PLANE:

**Aeroporto Internazionale dell'Umbria "San Francesco d'Assisi"** is 12 km far from Assisi. Connection to Assisi is provided by Taxi (Tel. + 39 075 592141) and by bus Line 007 (Umbria Mobilità) Tel. + 39 75 592141.

**International Airport "Leonardo da Vinci" (Rome)** is 235 km far from Assisi. It is connected to Assisi by train and by daily coach service with SULGA company (Tel. + 39 075 5009641. Tel + 39 06 65951).



**CONGRESS VENUE: PALAZZO DEL MONTE FRUMENTARIO**  
**Via S. Francesco – ASSISI**



Born as the ancient hospital of the town of Assisi, one of the earliest throughout Italy, Palazzo del Monte Frumentario was built in 1267 outside the first roman city walls, and on the downhill side of the road that still leads to the Basilica of St. Francis. The entrance of the structure of three floors, overlooks via Fontebella, vicolo degli Esposti and via San Francesco, is introduced by a portico of seven segmental arches, supported by small columns with Byzantine capitals sculpted by venetians stone cutters. The entrance is decorated with frescoes painted by an Umbrian follower of Giotto, which further beyond leads to a huge room decorated with Neo-gothic frescoes and illuminated by a large window overlooking the valley. The title of Monte Frumentario dates back to 1746, when the bishop Ottavio Ringhieri moved the headquarters of Monte Frumentario Barberini, pious institution founded in 1634 by Cardinal Antonio Barberini. Contrary to what took place at Monti di Pietà, at Monte Frumentario loans of wheat and other products of the earth were made. After various destinations of use, always concerning however, activities related to cultural activities and entertainment, from 2010, following an extremely important restoration, the building is used for exhibition venues among the most expressive in Umbria.

**Tourist office** site: <http://www.visit-assisi.it/>

The web site provides information about history and culture, monuments, territory, events and hospitality. You can download an accomodation guide at the following link: <http://www.visit-assisi.it/wp-content/uploads/2017/03/OPUSCOLO-TARIFFE-ALBERGHI-E-ALTRA-OSPITALITA2017.pdf>.

An official application of the municipality for smartphone is available.



## “Città di Assisi”

*App ufficiale del Comune / Official App of the Municipality*



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