



**StemNet**

GISM is a member of STEMNET  
(Federation of Associations  
on Stem Cell Research)

**2022  
GISM**

Annual meeting

**October  
20-21  
2022**

**TORINO STARHOTEL MAJESTIC**  
C.so Vittorio Emanuele II, 54



UNIVERSITÀ  
DEGLI STUDI  
DI TORINO



Welcome to GISM annual meeting in Turin (Italy) taking place on 20-21 October 2022 at Torino Starhotel Majestic, C.so Vittorio Emanuele II n. 54, with the support of the University of Turin and Regina Margherita Children's Hospital of Turin.

The novelty of this year's meeting is its articulation reflecting the new structure of GISM based on six sections that have been implemented during the last years to better cover the interests concerning the different aspects of mesenchymal stromal cells use.

The new deal enhances important aspects that can contribute to the growth of GISM and reach more widely researchers and clinicians with specific interests related to the study and use of MSCs.

The meeting brings together GISM-Regenerative Medicine with the support of the Cell Factories and researchers close to the clinic, and the GISM-Next-Generation section that reflects the willingness of young talented researchers on MSCs.

The GISM-Veterinary is a very active group that reached not only researchers but also clinical veterinarians, whilst the GISM-Secretome includes researchers interested in the paracrine mechanisms



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mediated by soluble molecules and extracellular vesicles of MSCs. The last section, GISM-Oncology, covers the discussed relations between MSC and tumour as well as the use of MSCs as a tool for drug delivery in cancer.

National and international speakers will present their scientific work with the aim of promoting an interactive discussion and training the youngest researchers. The best three posters will be awarded with the “Young Investigator Award” (500 €) to encourage the attendance of the youngest members of our community.

Turin, the first capital of Italy, is a “drawing-room city” of elegant porticoes surrounded by green hills and important monuments. From a Roman colony to an industrial city, Turin has continued to evolve with each iteration, each of which has left profound traces in its architecture and urban layout and is worth a visit!

Welcoming you to Turin, we wish you a pleasant congress.

*The GISM President  
and the local organizing Committee*

## SCIENTIFIC COMMITTEE

**Anna Brini** University of Milan,

IRCCS Galeazzi Orthopedic Institute, Milan

**Laura de Girolamo** IRCCS Galeazzi Orthopedic Institute, Milan

**Maurizio Del Bue** Parma

**Silvia Dotti** Istituto Zooprofilattico Sperimentale della  
Lombardia e dell'Emilia Romagna, Brescia

**Ivana Ferrero** City of Health and Science, Turin

**Stefano Grolli** University of Parma

**Andrea Grosso** Basel University Hospital

**Ana Ivanovska** National University of Ireland, Galway

**Enrico Lucarelli** IRCCS Rizzoli Orthopedic institute, Bologna

**Katia Mareschi** University of Turin

**Milena Mastrogiacono** University of Genoa

**Maurizio Muraca** University of Padua

**Luisa Pascucci** University of Perugia

**Carlotta Perucca Orfei** IRCCS Galeazzi Orthopedic Institute, Milan

**Augusto Pessina** University of Milan

**Filippo Piccinini** University of Bologna

**Maria Luisa Torre** University of Pavia

## LOCAL ORGANIZING COMMITTEE

**Franca Fagioli** City of Health and Science, Turin  
University of Turin

**Ivana Ferrero** City of Health and Science, Turin

**Katia Mareschi** University of Turin



**Paola Bagnoli**, Milan  
**Laura Barrachina Porcar**, Galway (Ireland)  
**Luca Battistelli**, Meldola  
**Domenico Bergero**, Turin  
**Stefania Bruno**, Turin  
**Giovanni Camussi**, Turin  
**Stefano Cosma**, Modena  
**Roisin Dwyer**, Galway (Ireland)  
**Franca Fagioli**, Turin  
**Angelo Ferrari**, Turin  
**Ivana Ferrero**, Turin  
**Andrea Grosso**, Basel (Switzerland)  
**Maria Harmati**, Szeged (Hungary)  
**Andrew M. Hoffman**, Grafton-Massachusetts (USA)  
**Ana Ivanovska**, Galway (Ireland)  
**Enrico Lucarelli**, Bologna  
**Katia Mareschi**, Turin  
**Milena Mastrogiacomo**, Genoa  
**Matteo Moretti**, Milan  
**Maurizio Muraca**, Padua  
**Andrea Papait**, Rome  
**Graziella Pellegrini**, Modena  
**Carlotta Perucca Orfei**, Milan  
**Augusto Pessina**, Milan  
**Filippo Piccinini**, Bologna  
**Alessandro Rolfo**, Turin  
**Daniela Taverna**, Turin  
**Roberta Visone**, Milan

FACULTY

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Thursday  
October 20

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12.00 Registration

14.00 Welcome and opening of the meeting  
**Augusto Pessina, Franca Fagioli,  
Domenico Bergero, Ivana Ferrero**



### **SESSION I**

**BRINGING ADVANCED THERAPIES TO  
THE CLINIC: TRENDS & STRATEGIES**

CHAIR: **Milena Mastrogiacono, Ivana Ferrero**

14.30 Bridging the gap in medical research on  
Advanced Therapy Medicinal Products:  
a biological, regulatory and medical experience  
**Graziella Pellegrini**

14.50 Bridging the funding gap in medical research  
in Advanced Therapy Medicinal Products:  
a fair measurement of value creation  
**Stefano Cosma**

15.10 My experience with MSCs in orthopedics:  
past, present and future  
**Nicholas Crippa Orlandi**

15.20 Oral cavity MSC phenotyping for regenerative  
medicine applications  
**Ilaria Roato** (on behalf of Miltenyi Biotec)

15.30 Oral selected communication  
**A new strategy to monitor Mesenchymal Stem Cells and  
Extracellular Vesicles in advanced therapies application**  
**Marta Nardini**



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15.40 **Discussion**

16.10 Coffee break

16.10 POSTER SESSION

## SESSION II

GISM-NEXT GENERATION

CHAIR: **Carlotta Perucca Orfei, Andrea Grosso**

17.00 Scientific articles: how to choose the right journal  
taking advantage of some opportunities

**Filippo Piccinini**

17.15 Technology transfer and intellectual property:  
let's talk to an expert

**Paola Bagnoli**

17.30 When ideas face reality: grants and funding  
sources for MSC-related research

(Round table between researchers from  
different institutions)

**Luca Battistelli**

**Laura de Girolamo**

**Milena Mastrogiacomo**

**Roberta Visone**

18.00 ***GISM members assembly***

20.00 Welcome dinner

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### SESSION III

#### NEW TECHNOLOGIES FOR 3D CULTURE SYSTEMS

CHAIR: **Katia Mareschi, Alessandro Rolfo**

- 9.00 Recapitulating musculoskeletal tissue complexity through microfluidic and bio-fabricated 3D models  
**Matteo Moretti**
- 9.20 Extracellular vesicle-mediated communication routes in 3D models  
**Maria Harmati**
- 9.40 Demonstrating method suitability for a rapid microbial detection method applicable to biological products  
**Lucia Ceresa** (Microbial Solution, Charles River)
- 9.50 Oral selected communication  
A novel organ on chip platform for culturing 3D human tissues under physiological flow-conditions for more predictive drug testing and human disease modeling  
**Silvia Scaglione**
- 10.00 **Discussion**
- 10.30 Coffee break

### SESSION IV

#### THERAPEUTIC APPLICATIONS OF MSC-EVs IN VETERINARY AND HUMAN MEDICINE

CHAIR: **Maurizio Muraca, Giovanni Camussi**

- 11.00 Translational lab-to-clinic hurdles in therapy with MSC-EVs  
**Stefania Bruno**



- 11.20 **Celector<sup>®</sup>, an instrument for quality control and standardization of ATMPs**  
**Silvia Zia** (Stem Sel srl)
- 11.30 ***Discussion***
- 11.40 Poster selected  
**Human liver stem cell-derived extracellular vesicles interfere with the development of chronic kidney disease in an in vivo experimental model of renal ischemia and reperfusion injury**  
**Elena Ceccotti**
- 11.50 Poster selected  
**Fluorescence polarisation-based extracellular vesicles quantification: Aptamer approach**  
**Tarlan Eslami Arshaghi**
- 12.00 Poster selected  
**Mesenchymal stromal cell secretome for regenerative medicine: modulation of soluble factors and extracellular vesicles embedded-miRNAs by different culturing conditions for joint diseases**  
**Enrico Ragni**
- 12.10 ***Discussion***
- 12.20 **POSTER SESSION**
- 13.00 Lunch
- 14.00 **Stem cell and EV trials in companion animals**  
**Andrew M. Hoffman**
- 14.20 ***Discussion***

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## **SESSION V**

**ADVANCING MSC THERAPIES IN VETERINARY MEDICINE:  
PRESENT CHALLENGES AND FUTURE PERSPECTIVES**

CHAIR: **Ana Ivanovska, Angelo Ferrari**

- 14.30 Instruments and reagents: latest proposal in stem cell analysis  
**Tommaso Rondelli** (Beckman Coulter)
- 14.40 Mesenchymal stem cells and immune properties: what have we learned for their allogeneic applications  
**Laura Barrachina Porcar**
- 15.10 Oral selected communication  
Peptide mediated adhesion to Beta-lactam ring of equine mesenchymal stromal cells: a pilot study  
**Barbara Merlo**
- 15.20 Oral selected communication  
Mesenchymal stromal cell-derived migrasomes: a morphological study  
**Gabriele Scattini**
- 15.30 ***Discussion***

## SESSION VI

### MSCs: A DOUBLE-EDGED SWORD: FRIEND OR FOE IN ONCOLOGY?

CHAIR: **Daniela Taverna, Enrico Lucarelli**

- 16.00 **MSC-EVs as delivery vehicles for tumour targeted therapy**  
**Roisin Dwyer**
- 16.20 **MSCs as immunoregulators in the tumour microenvironment**  
**Andrea Papait**
- 16.40 **Reagents to speed up molecular diagnostics**  
**Dario Foglietta** (Cyanagen)
- 16.50 Oral selected communication  
**Inhibition of human mesothelioma progression in a mouse xenograft model by Micro-fragmented fat (MFAT)**  
**Valentina Coccè**
- 17.00 ***Discussion***
- 17.30 **Poster Award**
- 17.45 **Conclusion and closing**  
**Augusto Pessina, Ivana Ferrero**

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## GENERAL INFORMATIONS

### CALL FOR ABSTRACTS September 1<sup>st</sup>, 2022

By submitting your research abstract you accept that your work will be shared either as a speech or as a poster.

The Scientific Committee reserves the right to choose the abstract format (oral or poster).

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

### ABSTRACT SUBMISSION GUIDELINES

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

- Language: English.
- Font: Times New Roman, 12 points font size, single spaced, justified text.
- Characters Limit: The abstract must not exceed 2500 characters, including spaces. This applies to the main body of the abstract only. Title and authors are excluded. References should not be included in the abstract. Use of standard abbreviations is preferred.
- Author/s names and surnames should be formatted in regular style: E.g.: Mario Rossi, Carla Bianchi, ...Affiliation (Regular style): E.g.: University of..., Laboratory of ...,



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- Text: The abstract should be divided into 4 paragraphs:
  - OBJECTIVE: primary purpose/s of study.
  - MATERIALS AND METHODS: description of data sources, subjects, design measurements and data analysis.
  - RESULTS: summary of the main findings.
  - CONCLUSIONS: Study conclusion and/or implication of the results.
- Abbreviations in the title will not be accepted. If used throughout the text, abbreviations must be indicated in their extended version the first time they are used. Please do not include images, tables or attachments.
- File saving: save the abstract in a Word format with the following name: first name surname of the first author (e.g. mario\_rossi doc).
- Go to **www.eventi-comunicare.it/gism** to submit your abstract.

## YOUNG INVESTIGATOR AWARD

GISM will assign three “**Young Investigator Awards**” of 500 Euro each. In order to be eligible the first author of a paper must be younger than 35 on October 20<sup>th</sup> 2022.

**The winner will receive the award during the Award Ceremony.**

**As collection on behalf of the designated winner is not allowed, failure to collect the award in person will result in disqualification from the competition.**

To take part in the contest, please put the Young Investigator Award acronym within brackets (YIA) before the first word of your abstract title.

Con il supporto di

**LAVAZZA**  
TORINO, ITALIA, 1895

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## IMPORTANT DEADLINES

ABSTRACT SUBMISSION: September 1<sup>st</sup>, 2022

EARLY REGISTRATION: September 20<sup>th</sup>, 2022

## REGISTRATION FEES

	UP TO Sept. 20 <sup>th</sup>	FROM Sept. 20 <sup>th</sup>
GISM MEMBERS	170 Euro	220 Euro
NOT MEMBERS	220 Euro	270 Euro
STUDENTS	120 Euro	150 Euro
ONE DAY ONLY	120 Euro	120 Euro

## FOR REGISTRATION

Go to: **[www.eventi-comunicare.it/gism](http://www.eventi-comunicare.it/gism)**

fill out the attendance form and upload the PDF  
with a proof of the payment.

## OFFICIAL LANGUAGE

English.



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Si ringraziano per il contributo incondizionato:



Organizing Secretariat  
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