



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

A microscopic view of several cells in a petri dish, with a pipette tip visible. The image is overlaid with a large yellow diagonal shape that contains the text.

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
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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 Mastrogiacomo, 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

- 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®**, 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 1st, 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 20th 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 1st, 2022

EARLY REGISTRATION: September 20th, 2022

REGISTRATION FEES

	UP TO Sept. 20 th	FROM Sept. 20 th
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

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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