2022 GISM
Annual meeting

October 20-21 2022

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

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
Thursday October 20

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
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
SESSON 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
**CALL FOR ABSTRACTS September 1\textsuperscript{st}, 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 ....,
- 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\textsuperscript{th} 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.
IMPORTANT DEADLINES
ABSTRACT SUBMISSION: September 1st, 2022
EARLY REGISTRATION: September 20th, 2022

REGISTRATION FEES

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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.
Si ringraziano per il contributo incondizionato: