



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 togheter 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

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 Mastrogiacomo University of Genoa Luisa Pascucci University of Perugia Carlotta Perucca Orfei IRCCS Galeazzi Orthopedic Institute, Milan Augusto Pessina University of Milan Filippo Piccinini University of Bologna Michela Pozzobon University of Padua 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 FACULTY Stefano Cosma, Modena Roisin Dwyer, Galway (Ireland) Franca Fagioli. Turin Angelo Ferrari, Turin 2022 GISM Ivana Ferrero. Turin Andrea Grosso. Basel (Switzerland) Maria Harmati, Szeged (Hungary) Andrew M. Hoffman, Grafton-Massachusetts (USA) Ana Ivanovska, Galway (Ireland) Annual meeting Enrico Lucarelli, Bologna Katia Mareschi. Turin Milena Mastrogiacomo, Genoa Matteo Moretti. Milan Andrea Papait, Rome Graziella Pellegrini. Modena Carlotta Perucca Orfei, Milan Augusto Pessina, Milan Filippo Piccinini, Bologna Michela Pozzobon, Padua Alessandro Rolfo, Turin Daniela Taverna. Turin Roberta Visone, Milan

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

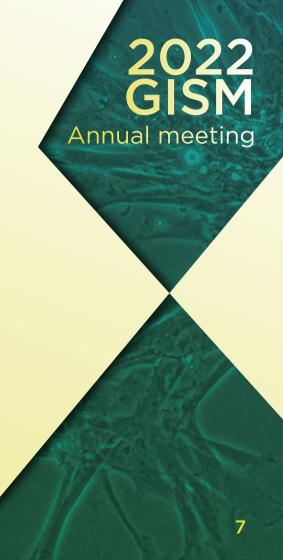
BRINGING ADVANCED THERAPIES TO THE CLINIC: TRENDS & STRATEGIES
CHAIR: Milena Mastrogiacomo, Ivana Ferrero

- 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

 llaria 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





Friday October 21

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SESSION III

NEW TECHNOLOGIES FOR 3D CULTURE SYSTEMS
CHAIR: Katia Mareschi, Alessandro Rolfo

- 9.00 Recapitulating musculoskelatal 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: Giovanni Camussi, Michela Pozzobon

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**



Friday October 21



Annual meeting



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**



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



2022 GISM Annual meeting

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,

- 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^{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.

Con il supporto di







IMPORTANT DEADLINES

ABSTRACT SUBMISSION: September 1st, 2022 EARLY REGISTRATION: September 20th, 2022

REGISTRATION FEES

	UP 10 Sept. 20"	FROM Sept. 20"
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.



Si ringraziano per il contributo incondizionato:























































Organizing Secretariat
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