



Siamo Capitale
Italiana della Cultura
2023

BERGAMO
BRESCIA



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DEGLI STUDI
DI BRESCIA



FONDAZIONE
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FEDERAZIONE ASSOCIAZIONI
SULLE CELLULE STAMINALI

SECOND INTERNATIONAL STEMNET MEETING

18 - 20 October 2023



BRESCIA - Centro Pastorale Paolo VI - Via Gezio Calini, 30



SECOND INTERNATIONAL
STEMNET MEETING

Welcome to the **Second International StemNet Meeting** that will take place at the Paolo VI Center in Brescia (Italy) on October 18-20, 2023.

StemNet is a federation of the four main associations of stem cell research in Italy (FIRST, GISM, IPLASS, SCRI) that share and synergize experiences to enhance both the quality and the impact of research in this advancing field. This meeting marks the constructive relationship among our associations and aims to improve the exchange of relevant and up-to-date information in the field of advanced cell therapy.

The nine sessions of the meeting will spotlight relevant progress in basic and translational stem cell research in human and veterinary medicine. The meeting also includes discussions on critical aspects of biomedical communication and research valorization, and will include a “next generation session” organized by young scientists. A faculty of national and international experts and renowned speakers will foster exciting and inspiring debates of the challenging scientific program.

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

The meeting is held in the Paolo VI Center located in the ancient Santangelo palace, a merger of two ancient palaces from the 1600s now named after the Brescian Pope Paul VI declared a Saint in 2014.

We are excited to welcome you to Brescia that (together with Bergamo) have been chosen as the 2023 Italian capitals of culture. We wish you a very productive congress and a pleasant stay in Brescia!

*Sincerely, the Stemnet President
and the local organizing committee*

**Augusto Pessina, Giovanna Piovani,
Silvia Dotti, Antonietta Rosa Silini**

WEDNESDAY, OCTOBER 18, 2023

13.00 Registration

15.00 Welcome and Opening of the meeting

Alessandro Padovani - Vice Rector for Research, University of Brescia

Mario Taccolini - President Poliambulanza Foundation

Giuseppe Meriardi - Health Department Director IZSLER

Giovanna Piovani - Local Organizing Committee, University of Brescia

Augusto Pessina - President Stemnet

15.30 - 17.00

**LA COMUNICAZIONE BIOMEDICA IN ITALIA:
ASPETTI CRITICI**

**Buone e “cattive” pratiche secondo la prospettiva
del giornalista, del comunicatore e degli uffici stampa**

Chair: **Augusto Pessina** (*Milan*)

Ornella Parolini (*Rome*)

**15.30 Giornalista scientifico Fondazione Umberto Veronesi,
gruppo GEDI (La Stampa, Repubblica)**

Daniele Banfi (*Milan*)

**15.45 Comunicatrice scientifica, Fondazione
Umberto Veronesi e Bergamo Scienza**

Agnese Collino (*Milan*)

**16.00 Responsabile ufficio stampa e coordinamento
editoriale Ospedale Bambino Gesù**

Alessandro Iapino (*Rome*)

16.15 Discussione

17.00 Coffee break

WEDNESDAY, OCTOBER 18, 2023

17.30 - 19.00

STEMNET NEXT GENERATION SESSION

Chair: **Filippo Piccinini** (*Meldola*)
Pasquale Marrazzo (*Bologna*)

17.30 Introduction and description
“StemNet Next-Generation Contest 2023”

17.40 FMR1 silencing and stability during human FXS brain development: from early stage of pluripotency to 3D cortical organoids
Cecilia Laterza (*Padua*)

STEMNET NEXT GENERATION CONTEST

18.00 Contraceptive drug, Nestorone, enhances stem cell-mediated remodeling of the stroke brain by dampening inflammation and rescuing mitochondria
Vanessa Castelli (*L'Aquila*)

18.10 Effect of the Human Amniotic Membrane on the Umbilical Vein Endothelial Cells of Gestational Diabetic Mothers: New Insight on Inflammation and Angiogenesis
Caterina Pipino (*Chieti*)

18.20 Super-resolution genetics in haploid stem cells: decoding Hedgehog signaling in development and cancer
Giulio Di Minin (*Zurich, Switzerland*)

18.30 Discussion

19.00 Welcome cocktail

THURSDAY, OCTOBER 19, 2023

09.00 - 10.30

CELL FREE THERAPIES

Chair: **Umberto Galderisi** (*Naples*)
Massimo Dominici (*Modena*)

**09.00 Camouflaging synthetic nanomaterials
with MSC extracellular vesicle membranes**

Paolo Bergese (*Brescia*)

**09.20 The role of glucocorticoids in the regulation
of cardiomyocyte regenerative plasticity**

Gabriele D'Uva (*Bologna*)

**09.40 Mesenchymal stromal cell secretome for
regenerative medicine: modulation of soluble factors
and miRNAs in extracellular vesicles under different
culture conditions for joint pathologies**

Enrico Ragni (*Milan*)

**09.50 Extracellular vesicles derived from human liver stem
cells counteract chronic kidney disease development
and cardiac dysfunction in remnant
kidney murine model**

Stefania Bruno (*Turin*)

10.00 Discussion

10.30 Coffee break

THURSDAY, OCTOBER 19, 2023

11.00 - 12.30

TIPS AND TRICKS OF RESEARCH VALORIZATION

Chair: **Luca Battistelli** (*Meldola*)

Enrico Lucarelli (*Bologna*)

11.00 From research to enterprise: Materias as a model

Luigi Nicolais (*Naples*)

11.15 The role of venture capitalists for the support of translational research

Lucilla Mazzeo (*Rome*)

11.30 What you need to know for an efficient technology transfer

Manuela Monti (*Meldola*)

11.40 Holotomography: High resolution Label free live cell imaging at scale

Aubrey Lambert (*Tomocube, South Korea*)

11.50 Confocal imaging at your bench: BC43

Marco Lorenzi (*Alfatest s.r.l., Milan*)

12.00 General Discussion

12.30 Lunch

13.30 - 15.00

POSTER SESSION

THURSDAY, OCTOBER 19, 2023

15.00-16.30

STEM CELLS AND CANCER

Chair: **Katia Mareschi** (*Turin*)

Francesca Paino (*Milan*)

15.00 Potential use of MSC for translational clinical treatments

Ralf Hass (*Hannover, Germany*)

15.20 Malignant pleural mesothelioma: a clinical trial to test the local delivery of drug-loaded MSC

Giulia Stella (*Pavia*)

15.40 Preparation and characterization of extracellular vesicles from adipose tissue-derived mesenchymal stromal cells loaded with paclitaxel for clinical use in the treatment of mesothelioma patients

Eleonora Spampinato (*Milan*)

15.50 Harnessing mesenchymal stem cells-Mediated Tumor Microenvironment Perturbation for Enhanced Chemiosensitivity: proposing a preclinical study as a step towards clinical implementation of a promising hypothesis

Benedetta Ferrara (*Milan*)

16.00 Discussion

16.30 Coffee Break

THURSDAY, OCTOBER 19, 2023

17.00 - 18.30

STEM CELLS IN VETERINARY APPLICATIONS

Chair: **Anna Lange Consiglio** (*Milan*)

Silvia Dotti (*Brescia*)

17.00 Immune activated mesenchymal stromal cell therapy for management of drug-resistant infection

Steven Dow (*Fort Collins, USA*)

17.20 The CALIN Veterinary Regenerative Network: scientific and clinical interface for standardization of cell therapy in animals

Ana Ivanovska (*Galway, Ireland*)

17.40 The Future of Nanomedicine: Precision Purification and Measurement.

Stephane Mazlan (*Izone Science, France*)

17.50 Mesenchymal stromal cells derived from canine adipose tissue: evaluation of the shipping vehicles used for clinical administration

Priscilla Berni (*Parma*)

18.00 Discussion

18.30 Assembly of the societies

20.00 Social dinner

FRIDAY, OCTOBER 20, 2023

9.00-10.30

STEM CELLS IN CLINICAL APPLICATIONS

Chair: **Antonietta Rosa Silini** (*Brescia*)

Roberta Piva (*Ferrara*)

09.00 Regenerative ophthalmology

Diego Ponzin (*Venice*)

09.20 The HIPGEN phase III study - placental derived stromal cells for muscle regeneration

Tobias Winkler (*Berlin, Germany*)

09.40 Human connective SVF micrografts in MSK disorders: results from an in-vivo animal model

Lindsey Alejandra Quintero Sierra,

Riccardo Ossanna (*Verona*)

09.50 Regenerative Medicine in Orthopedic Surgery

Nicholas Crippa Orlandi (*Siena*)

10.00 Discussion

10.30 Coffee break

FRIDAY, OCTOBER 20, 2023

11.00-12.30

ORGANOIDS AND 3D SYSTEMS

Chair: **Lorenza Lazzari** (*Milan*)

Francesco Alviano (*Bologna*)

11.00 Designing biomaterials for regenerative medicine and therapeutics

Molly Stevens (*London,UK*)

11.20 Biology-driven organ on chips and 3D tissue models to improve disease understanding and accelerate personalized therapies development

Silvia Scaglione (*Genoa*)

11.40 Hybrid spheroids as a model of osteosarcoma

Martyna Malgorzata Rydzyk (*Bologna*)

11.50 Perinatal Stem Cell Spheroids in Type 1 Diabetes Therapy: Structural Insights and Immunomodulatory capacity

Francesca Paris (*Bologna*)

12.00 Discussion

12.30 Lunch

FRIDAY, OCTOBER 20, 2023

14.00 -15.30

iPSC AND GENE THERAPY

Chair: **Giovanna Piovani** (*Brescia*)

Silvia Giliani (*Brescia*)

14.00 Stem cells and new gene therapy strategies

Alessandro Aiuti (*Milan*)

14.20 iPSC as model systems for neurodevelopmental and neurodegenerative diseases

Claudia Compagnucci (*Rome*)

14.40 Differentiation of human induced pluripotent stem cells into hyalocytes through ascorbic acid treatment

Elena Laura Mazzoldi (*Brescia*)

14.50 Multiple system atrophy ipsc-derived dopaminergic neurons display structural and functional differences from control

Giulia Sofia Marcotto (*Brescia*)

15.00 Discussion

15.30 Awards Ceremony

16.00 Closing Remarks

STEMNET BOARD

President: **Augusto Pessina** (*GISM*)

Vice-President: **Massimo Dominici** (*FIRST*)

Secretary: **Umberto Galderisi** (*SCRI*)

Members: **Francesco Alviano** (*IPLASS*)

Lorenza Lazzari (*FIRST*)

Enrico Lucarelli (*GISM*)

Ornella Parolini (*IPLASS*)

Roberta Piva (*SCRI*)

LOCAL ORGANIZING COMMITTEE

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Istituto Romagnolo per lo Studio dei Tumori IRCCS “Dino Amadori”,
Meldola - Italy

Luigi Nicolais

University of Naples “Federico II” & President of Materias S.r.l.
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Diego Ponzin

Veneto Eye Bank Foundation, Venice - Italy

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Molly Stevens

Department of Materials and Department of Bioengineering,
Imperial College, London - UK

Tobias Winkler

Berlin Institute of Health Julius Wolff Institut
Center for Regenerative Therapies, Charité, University of Berlin - Germany

CALL FOR ABSTRACTS

By submitting an abstract you accept to share your work either as a poster or oral presentation. The Scientific Committee will designate the format (oral or poster). The final acceptance decision is the exclusive right of the Scientific Committee. For the Young Investigator Awards, the abstracts will be evaluated and scored by a panel of referees according to their novelty and significance.

Abstract submission is open! Don't miss the chance to share your research studies. DEADLINE: September 1, 2023

Abstracts must adequately describe the objectives and results. Originality, study quality and completeness of the work will be evaluated. Submit your abstracts by email to info@bleassociates.it. Please include your phone number and email address. Use "abstract_name_surname" as the subject of the email.

- 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 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.
- Author/s names and surnames (Regular style): E.g.: Mario Rossi, Carla Bianchi, ... Affiliation (Regular style): E.g. University of....., Laboratory of
- Text: Originality, study quality and completeness of the work will be evaluated. The abstract should be divided into 4 paragraphs:
 1. OBJECTIVE: indicate primary purpose of study.
 2. MATERIALS AND METHODS: description of data sources, subjects, design measurements and data analysis.

3. RESULTS: summary of the main findings.
 4. CONCLUSIONS: study conclusions 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.
 - Save the abstract as a Word file with the following name: first name and surname of the first author (e.g. mario_rossi.doc).

YOUNG INVESTIGATOR AWARD

GISM will assign three “Young Investigator Awards” of 500 euros each. In order to be eligible the first author of the abstract must be younger than 35 on October 18, 2023. The winner will receive the award during the Awards 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.

EARLY REGISTRATION: SEPTEMBER 20, 2023

REGISTRATION FEES

	UP TO Sept. 20	From Sept. 21
GISM, FIRST, IPLASS, SCRI and AICC members	200 €	250 €
NOT MEMBERS	250 €	300 €
STUDENTS	130 €	160 €
ONE DAY ONLY	130 €	130 €

CANCELLATION & REFUND POLICY

In order to obtain reimbursement of delegate registration, all cancellations for the SECOND INTERNATIONAL STEMNET MEETING must be submitted in writing to the Congress Secretariat via email to: info@bleassociates.it

- Cancellations received in writing by September 20, 2023 will be refunded, with an administrative fee of € 80,00.
- Cancellations received in writing after September 20, 2023, will not be refunded, other than exceptional circumstances to be reviewed and agreed by the organizing committee.

PAYMENT BY BANK TRANSFER

Bank transfer payable to Gruppo Italiano Staminali
Mesenchimali

REF.: StemNet, October 18 - 20, 2023

Bank account: 130961,

Bank: INTESA SANPAOLO SPA, FILIALE ACCENTRATA
TERZO SETTORE

IBAN: IT62T0306909606100000130961

FOR REGISTRATION

[CLICK HERE](#) to download the attendance form

Please send the attendance form and a proof of the payment by
email to info@bleassociates.it

THANKS TO:





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