



StemNet

FEDERATION OF STEM CELL ASSOCIATIONS



FIRST INTERNATIONAL STEMNET MEETING Padua, September 22 - 24, 2021

MUSME, the Museum of History of Medicine in Padua



Wednesday, September 22, 2021

13:00 REGISTRATION

14:00 OPENING CEREMONY

SESSION 1: ADVANCES AND PITFALLS OF CELL THERAPY AT BEDSIDE: WAS THE PROMISE FULFILLED?
CHAIR: Antonella Viola (Padua), Massimo Dominici (Modena)

14.30 - 16.00

14.30-15.30

Genetically-engineered somatic cells to cure genetic disorders and cancer: a critical assessment

Franco Locatelli (Rome)

15.30-16.00

From cell therapy to genes: regenerating the field of cardiac regeneration

Mauro Giacca (London, UK)

SESSION 2: LE ASPETTATIVE DEL PAZIENTE TRA BIOETICA, REGOLAMENTAZIONE E COMUNICAZIONE
CHAIR: Augusto Pessina (Milan), Maurizio Muraca (Padua)

16.00 - 17.00

16.00-16.20

Turismo medico, cliniche offshore e cure compassionevoli: il punto di vista degli enti regolatori

Daniela Melchiorri (Rome)

16.20-16.40

La bioetica tra vecchie e nuove sfide

Renzo Pegoraro (Rome)

16.40-17.00

Comunicare la scienza

Giovanni Carrada (Roma)

17.00-17.20 COFFEE BREAK

17.20-18.30

Dibattito – Tavola Rotonda

Franco Locatelli, Mauro Giacca, Renzo Pegoraro, Giovanni Carrada, Daniela Melchiorri, Anna Sandri.

18.30-19.30 WELCOME COCKTAIL

Thursday, September 23, 2021

SESSION 3: BASIC AND APPLIED RESEARCH ON FOETAL AND ADULT STEM CELLS
CHAIR: Michela Pozzobon (Padua), Ornella Parolini (Rome)

09.00 - 10.45

09.00-09.25

Modelling Amniotic Membrane healing effect on chronic and diabetic foot ulcers into an in vitro cell system to unravel the molecular mechanisms behind its therapeutic effect

Francisco J. Nicolás (Murcia, Spain)

09.25-09.50

Mesenchymal Stromal Cells in Crohn's disease

Rachele Ciccocioppo (Verona)

09.50-10.15

Where gene therapy meets cell therapy

Alessandra Biffi (Padua)

10.15-10.30

Selected communication

10.30-10.45

Selected communication

10.45-11.15 TECHNOLOGICAL SESSION

10.45-10.55

Empowering GMP-compliant stem cell manufacturing in a closed and automated system

Cinzia Brandoli (Miltenyi Biotec, Bologna)

10.55-11.05

CytoSMART: simple and compact systems to monitor your cells without accessing the lab

Giulia Anselmi (Alfatest, Cinisello Balsamo)

11.05-11.15

Bioinks and bioprinting technologies to tailor cell microenvironment

Pierre-Alexandre Laurent (Cellink, Gothenburg, Sweden)

11.15- 11.30 COFFEE BREAK

SESSION 4: MESENCHYMAL STROMAL CELLS AND THE NERVOUS SYSTEM

CHAIR: Zoltan Vereb (Szeged, Hungary), Umberto Galderisi (Naples)

11.30 - 13.00

11.30- 11.55

DNA damage response of neural stem and progenitor cells and neurodevelopmental pathologies

François Boussin (Paris-Saclay, France)

11.55-12.20

Challenge to medical innovation by non-tumorigenic endogenous reparative Muse cells

Mari Dezawa (Sendai, Japan)

12.20-12.35

Selected communication

12.35-12.50

Selected communication

12.50-13.05

Selected communication

13.10-14.00 LUNCH TECHNOLOGICAL SESSION

13.10-13.20

New technologies for aseptic production allow a faster and reliable access to in house ATMP manufacturing

Marco Fadda (Comecer, Castelbolognese RA)

13.20-13.30

Standardized Single Particle Measurement of Number, Size and Charge is required for Confidence in Nanomedicine Engineering and Development

Marianne Marchioni (Izon Science LTD, France)

13.30-13.40

Cytoflex New Generation Flow Cytometry Analysis of Circulating Microvesicles and Exosomes

Claudia Maria Radu (Padua)

13.40-13.50

Selector the “cell chromatograph” to separate, characterize and collect living stem cells

Silvia Zia (Stem Sel srl, Bologna)

13.50-15.00 POSTER SESSION

SESSION 5: CANCER STEM CELLS AND TUMOR MICROENVIRONMENT

CHAIR: Krisztina Buzas (Szeged, Hungary), Enrico Lucarelli (Bologna)

15.00 - 16.30

15.00-15.25

Cancer stem cells

Stefano Piccolo (Padua)

15.25-15.50

An antitumor cellular viroimmunotherapy using mesenchymal progenitor cells

Javier-Garcia Castro (Madrid, Spagna)

15.50-16.05

Selected communication

16.05-16.20

Selected communication

16.20-16.35

Selected communication

16.35-17.00 COFFEE BREAK

SESSION 6: CELL FREE THERAPY

CHAIR: Barbara Lukomska (Warsaw, Poland), Maria Luisa Torre (Pavia)

17.00 - 18.30

17.00-17.25

First clinical experiences with MSC derived extracellular vesicles

Eva Rohde (Salzburg, Austria)

17.25-17.50

MSC-derived extracellular vesicles: perspectives in oncology and regenerative medicine

Benedetta Bussolati (Turin)

17.50-18.15

Functional heterogeneity of cellular and extracellular vesicle-based therapeutics: implications for the development of potency assays

Bernd Giebel (Essen, Germany)

18.15-18.30

Selected communication

18.30-20.00 SOCIETY ASSEMBLY

*Friday, September 24, 2021***SESSION 7: ORGANOIDS**

CHAIR: Lorenza Lazzari (Milan), Roberta Piva (Ferrara)

09.00 - 11.00

09.00-09.25

Organoids culture systems: unique tools for studying biological processes and creating the medicine of the future

Salvatore Simmini (Cambridge, UK)

09.25-09.50

Extracellular matrix hydrogel derived from decellularized tissues enables endoderm organoid culture

Nicola Elvassore (Padua)

09.50-10.15

Organoids in cancer research

Giulia Della Chiara (Milan)

10.15-10.30

Selected communication

10.30-10.45

Selected communication

10.45-11.00

Selected communication

11.00-11.30 COFFEE BREAK

SESSION 8: OPPORTUNITIES FOR YOUNG RESEARCHER

CHAIR: Francesco Alviano (Bologna), Assunta Pandolfi (Chieti)

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11.30 - 12.30

11.30-11.45

Opportunities in 2021-2022 for short-term fellowships in Europe

Filippo Piccinini (Meldola)

11.45-12.30 YOUNG INVESTIGATOR AWARDS AND CLOSING REMARKS

STEMNET BOARD

President: **Augusto Pessina (GISM)**

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

Secretary: **Umberto Galderisi (SCRI)**

Members: **Enrico Lucarelli (GISM), Lorenza Lazzari (FIRST), Ornella Parolini (IPLASS), Francesco Alviano (IPLASS), Roberta Piva (SCRI)**

LOCAL ORGANIZING COMMITTEE

Maurizio Muraca, Michela Pozzobon

FACULTIES

Biffi Alessandra - Department of Pediatrics, Director of Pediatric Oncohematology, University of Padua.

Boussin François - Institut de biologie François Jacob DRF, Institut F. Jacob, CEA Paris-Saclay, France.

Bussolati Benedetta - Department of molecular Biotechnology and Health Sciences, University of Torino.

Buzas Krisztina - Faculty of Dentistry, University of Szeged and Biological Research Center, Szeged, Hungary.

Carrada Giovanni - Science Communicator and author of Superquark, Roma.

Ciccocioppo Rachele - Gastroenterology Unit, Department of Medicine, University of Verona.

Della Chiara Giulia – IBP Unit, National Institute of Molecular Genetics "Romeo ed Enrica Invernizzi"(INGM),

Department of Medical Biotechnology and Translational Medicine, University of Milan.

Dezawa Mari - Department of Stem Cell Biology and Histology, Tohoku University, Graduate School of Medicine, Japan.

Elvassore Nicola - Department of Industrial Engineering, University of Padua.

Garcia Castro Javier - Head of Cellular Biotechnology Unit, Instituto de Salud Carlos III, Spain.

Giacca Mauro - Cardiovascular Department, Sciences in the School of Cardiovascular Medicine & Sciences, Kings College, London, UK.

Giebel Bernd - Institute for Transfusion Medicine, University Hospital Essen, Germany.

Locatelli Franco - Director of Consiglio Superiore di Sanità, Department of Oncohematology, Cell and gene therapy Department, IRCCS Pediatric Hospital Bambino Gesù, Rome.

Lukomska Barbara - NeuroRepair Department, Mossakowski Medical Research Centre, Warsaw, Poland.

Melchiorri Daniela - Department of Pharmacology, University of La Sapienza, Rome .

Nicolás Francisco J. - Laboratorio de Regeneración, Hospital Universitario Virgen de la Arrixaca, Murcia, Spain.

Pegoraro Renzo - Chancellor of Pontifical Academy for Life, Rome.

Piccinini Filippo – -IRCCS Istituto Romagnolo per lo Studio dei Tumori (IRST) "Dino Amadori", Meldola, Italy.

Piccolo Stefano - Department of Molecular Medicine, University of Padua.

Rohde Eva - Paracelsus Medical, University Salzburg, Austria.

Sandri Anna - Journalist, Padua.

Simmini Salvatore – Research & Development, STEMCELL Technologies, Cambridge Research Park.

Vereb Zoltan - Regenerative Medicine and Cellular Pharmacology Laboratory, Department of Dermatology and Institute of Translational Biomedicine, University of Szeged, Hungary.

MAIN TOPICS:

- New insights on biology of mesenchymal stromal/progenitor cells (MSCs); Clinical targets of stromal/progenitor cells: from in vitro studies to therapy; Basic and applied research on adult stem cells;
- Cancer stem cells and stem cells for cancer: from basic research to therapy; Beyond stem cells: therapeutic use of extracellular vesicles;
- Perinatal tissue derived bioactive agents: from mechanism of action to therapeutic approaches;
- Gene therapy: alternative or complementary approach to cell therapy? Induced Pluripotent Stem Cells, (iPSC): basic and applied research.

CALL FOR ABSTRACT

By submitting an abstract of your research you accept to share your work either as a speech or as a poster to be presented or displayed during the congress.

The Scientific Committee will designate the format (oral or poster). The final acceptance decision is the exclusive right of the Scientific Committee.

The Abstracts will be evaluated and scored by a panel of Referees (selected by the Scientific Committee) according to their novelty and significance for the Young Investigator Awards.

Abstract submission is open! Don't miss the chance to share your research studies.

DEADLINE: JULY 3, 2021

INSTRUCTIONS

Abstracts must adequately describe the objectives and results. Originality, study quality and completeness of the work will be evaluated. All information and news about the status of the abstract will only be sent to the e-mail address **stemnet@ziptravelgroup.com**. Please check for the accuracy of the e-mail address inserted.

- 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's 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).

YOUNG INVESTIGATOR AWARD

StemNet will assign three "Young Investigator Awards" of 500 Eur each. In order to be eligible to win, the first author of a paper must be younger of 35 on September the 15th 2021. The awards will be delivered to the winner during the Award Ceremony. As collection on behalf of the designated winner is not allowed, the unavailability to personally collect the award will cause disqualification from the competition. To take part in the contest, please add the Young Investigator Award acronym within brackets (YIA) before the first word of your abstract title.

REGISTRATION FEES

	UP TO AUGUST 30th 2021	FROM AUGUST 31st 2021
DELEGATES (non members)	€ 220,00	€ 270,00
GISM, FIRST, IPLASS, SCR, and AICC members	€ 170,00	€ 220,00
STUDENTS/NURSES	€ 120,00	€ 150,00
ONLY ONE DAY	€ 120,00	€ 120,00

CANCELLATION & REFUND POLICY

In order to obtain reimbursement of delegate registration, all cancellations for the FIRST INTERNATIONAL STEMNET MEETING must be submitted in writing to the Congress Secretariat via email to: stemnet@ziptravelgroup.com

- Cancellations received in writing between by August 6, 2021 will be refunded, less of € 80,00 administrative fee.
- Cancellations received in writing on August 7, 2021 or later, 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, September 22-24, 2021
BANK: BANCA PROSSIMA – Milano

IBAN: IT09X0335901600100000130961 BIC/SWIFT: BCITITMX