



# StemNet

FEDERATION OF STEM CELL ASSOCIATIONS



## FIRST INTERNATIONAL STEMNET MEETING

Padua, May 6 – 8, 2020

*Botanic Garden and Biodiversity Garden of Padua*





# Federation of Stem Cell Associations

First International StemNet Meeting  
Padua, May 6-8, 2020

Opening in Aula Magna, Palazzo Bo

Wednesday, May 6, 2020

**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 REGOLAMENTAZIONE, BIOETICA E COMUNICAZIONE**

**CHAIR: Augusto Pessina (Milan), Maurizio Muraca (Padua)**

**16.00 - 16.40**

**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**

**Per una comunicazione della scienza dal volto umano**

**Giovanni Carrada** (Rome)

## 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

**Botanical Garden**

*Thursday, May 7, 2020*

### **SESSION 3: BASIC AND APPLIED RESEARCH ON FOETAL AND ADULT STEM CELLS**

**CHAIR: Michela Pozzobon (Padua), Ornella Parolini (Rome)**

**09.00 - 11.15**

### **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**

**MSCs in Crohn's disease**

**Rachele Ciccocioppo** (Verona)

### **09.50-10.15**

**Where gene therapy meets cell therapy**

**Alessandra Biffi** (Padua)

### **10.15-10.30**

**Title**

**Selected communication**

### **10.30-10.45**

**Title**

**Selected communication**

## **10.45-11.15 TECHNOLOGICAL SESSION**

**10.45-10:55**

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

**Claudia Maldini**, (Miltenyi Biotec, Bologna)

**10.55-11:05**

**Livecyte: creating a comprehensive cell profile**

**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), 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**

**Title**

**Selected communication**

**12.35-12.50**

**Title**

**Selected communication**

**12.50-13.05**

**Title**

**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** (Kometer, Castelbolognese RA)

## 13.20-13.30

**From single cells interaction to Extracellular Vesicles quantification: new, alternative and innovative technologies for quantitative label free investigation**

**Francesca Sbrana** (Schaefer South-East Europe Srl, Genova)

## 13.30-13.40

**New Generation Flow Cytometry Analysis of Circulating Microvesicles and Exosomes**

**Claudia Maria Radu** (Department of Medicine DIMED, University of Padua)

## 13.40-13.50

**Title**

**Selected communication**

## 13.50-14.00

**Title**

**Selected communication**

## 14:00-15:00 POSTER SESSION

**SESSION 5: CANCER STEM CELLS AND TUMOR MICROENVIRONMENT**

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

**15.00 - 16.30**

## 15:00-15:25

**Cancer stem cells**

**Stefano Piccolo** (Padua)

## 15.25-15.50

**An antitumoral cellular viroimmunotherapy using mesenchymal progenitor cells**

**Javier Garcia-Castro** (Madrid, Spain)

## 15.50-16.05

**Title**

**Selected communication**

**16.05-16.20**

**Title**

**Selected communication**

**16.20-16.35**

**Title**

**Selected communication**

**16:35-17:00 COFFEE BREAK**

**SESSION 6: CELL FREE THERAPY**

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

**17.00 - 18.30**

**17:00-17:25**

**First clinal experiences with MSC derived extracellular vesicles**

**Eva Rohde** (Salzburg, Austria)

**17.25-17.50**

**Extracellular vesicles: challenges from preclinical to clinical applications**

**Giovanni Camussi** (Turin)

**17.50-18.10**

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

**Bernd Giebel** (Essen, Germany)

**18.10-18.25**

**Title**

**Selected communication**

**18:25-20:00 SOCIETY ASSEMBLY**

**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**

**Title**

**Selected communication**

**10.30-10.45**

**Title**

**Selected communication**

**10.45-11.00**

**Title**

**Selected communication**

**11:00-11:30 COFFEE BREAK**

**SESSION 8: OPPORTUNITIES FOR YOUNG RESEARCHER**

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

**11.00 - 13.30**

**11.30-11.45**

**Opportunities in 2020 for short-term fellowships in Europe**

**Filippo Piccinini** (Meldola)

**12.45-13.30 YOUNG INVESTIGATOR AWARDS AND CLOSING REMARKS**



# Federation of Stem Cell Associations

## First International StemNet Meeting

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### 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

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

**Anna Sandri** - Journalist, Padua

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

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

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

**Eva Rohde** - Paracelsus Medical, University Salzburg, Austria

**Filippo Piccinini** - Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori (IRST) IRCCS, Meldola, Italy

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

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

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

**Giovanni Camussi** - Department of Nephrology, University of Torino

**Giovanni Carrada** - Comunicatore della scienza e autore Superquark, Roma

**Giulia Della Chiara** - IBP Unit, Istituto Nazionale di Genetica Molecolare "Romeo ed Enrica Invernizzi", Department of Medical Biotechnology and Translational Medicine, Università degli Studi di Milano

**Javer Garcia Castro** - Head of Cellular Biotechnology Unit, Instituto de Salud Carlos III, Spain

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

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

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

**Nicola Elvassore** - Department of Industrial Engineering, University of Padova

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

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

**Salvatore Simmini** - Research & Development, STEMCELL Technologies, Cambridge Research Park, UK

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

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





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### 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 Investor Awards.

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

**DEADLINE: MARCH 31, 2020**

## 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 May the 6th 2020. 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 APRIL 21 <sup>ST</sup> 2020	FROM APRIL 22 <sup>ND</sup> 2020
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 April 21, 2020 will be refunded, less of € 80,00 administrative fee.
- Cancellations received in writing on April 22 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, May 6 – 8, 2020

**BANK:** BANCA PROSSIMA – Milano

**IBAN:** IT09X0335901600100000130961

**BIC/SWIFT:** BCITITMX