

CLINICAL TRANSLATION OF PERINATAL DERIVATIVES: WHERE DO WE STAND?

IPLASS and COST SPRINT Action Joint Scientific Meeting

September 2-3, 2022

Brescia, Italy

Venue: Centro Paolo VI, Brescia



**ABSTRACT
BOOK**

CLINICAL TRANSLATION OF PERINATAL DERIVATIVES: *WHERE DO WE STAND?*

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SCIENTIFIC BOARD

Sveva Bollini, Università degli Studi di Genova, Italy
Cesar Borlongan, University of South Florida, Tampa, USA
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Peter Ponsaerts, University of Antwerp, Belgium
Antonietta R. Silini, CREM-Fondazione Poliambulanza, Brescia, Italy

ORGANIZING COMMITTEE

Ornella Parolini
Antonietta R. Silini
Secretariat CREM-Fondazione Poliambulanza

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FRIDAY, September 2, 2022

Venue: Centro Paolo VI, Brescia

- 8:30-10:30 Registration and poster set-up
COST MC Meeting (open to COST Management Committee members only)
- 10:30-10:45 *Coffee break*
- 10:45-11:00 **OFFICIAL WELCOME AND OPENING** from COST Action Chair (Host, Ornella Parolini, Italy) and from IPLASS President (Cesar V. Borlongan, USA)
Welcome from the President of Fondazione Poliambulanza (Mario Taccolini)

COST EUROPEAN SCIENCE & INDUSTRY WORKSHOP

Chairs: Michael Gasik (Finland) and Antonietta R. Silini (Italy)

- 11:05-11:30 Petra Reinke (Germany) - *Current scientific challenges associated to cell therapies*
- 11:30-11:55 Hans Dieter Volk (Germany) - *Cell product specification and biomarker monitoring in clinical trials*
- 11:55-12:20 Katharina Schimek (Germany) - *Organ on-a-chip models to study mechanisms of tissue regeneration*
- 12:20-12:45 Racheli Ofir (Israel) - *Challenges associated to cell therapies from an industry perspective*
- 12:45-13:10 Carla Baldasso (Italy) - *The LIFESAVER project "Living Impact on Fetal Evolution: Shelter-Analyze-Validate-Empower Regulations"*
- 13:10-14:15 *Light Lunch and poster viewing*

SESSION 1: The mechanisms of action of perinatal derivatives

Chairs: Fabio Marongiu (Italy) and Günther Eissner (Ireland)

- 14:15-14:40 Bernd Giebel (Germany) - *Functional and potency assays governing mesenchymal stem/stromal cells*
- 14:40-15:05 Francisco José Nicolás Villaescusa (Spain) - *Mechanisms of action of the amniotic membrane in wound healing*
Selected short presentations
- 15:05-15:15 Andrea Papait (Italy) - *Defining the impact of the EVs on the immunomodulatory properties of the amniotic mesenchymal stromal cell secretome*
- 15:15-15:25 Melanie Pichlsberger (Austria) - *Testing of wound dressing materials for colonization with mesenchymal stromal cells*
- 15:25-15:35 Karolina Radziun (United Kingdom) - *Modelling of a 3D in vitro human placenta-on-chip model using chorion carcinoma-derived trophoblast cells line (BeWo B30) and immortalised human umbilical vein cell line (EA.hy-926)*
- 15:35-16:00 *Coffee break*
- 16:00-16:40 **Keynote lecture:**
Cesar V. Borlongan (USA) - *Do stem cells really work? What have we learned in 30 years of research?*

17:00 *Bus leaves meeting venue for Visit to Berlucchi Winery and dinner on winery premise***SATURDAY, September 3, 2022**

Venue: Centro Paolo VI, Brescia

SESSION 2: Advances in preclinical studies using perinatal derivatives

Chairs: Giampiero La Rocca (Italy) and Susanne Wolbank (Austria)

- 9:00-9:25 Andreina Schoeberlein (Switzerland) - *Wharton's jelly mesenchymal stromal cells release small extracellular vesicles (sEV) with neuro-regenerative potential*
- 9:25-9:50 Peter Ponsaerts (Belgium) - *Inconsistencies and challenges in preclinical studies using perinatal derivatives in neurodegenerative disorders*
- 9:50-10:15 Francesca Elice (Italy) - *Perinatal derivatives to combat COVID-19*
- 10:15-10:40 Mateja Erdani Kreft (Slovenia) - *Applications of the amniotic membrane in cancer*
- 10:40-11:10 *Coffee break*
Selected short presentations
- 11:10-11:20 Luciana Barros Sant'Anna (Brazil) - *Amniotic membrane modulates MMP9 and MMP12 gene and protein expression in experimental model of the hepatic fibrosis*
- 11:20-11:30 Angelo Canciello (Italy) - *Onset of hybrid E/M phenotype enhances stemness, plasticity and immunomodulatory properties in amniotic epithelial cells*
- 11:30-11:40 Roberto Gramignoli (Sweden) - *Human amniotic epithelial cells accelerate and improve healing of injured vocal folds: a human-relevant preclinical study*

SESSION 3: Clinical applications of perinatal derivatives

Chairs: Sveva Bollini (Italy) and Racheli Ofir (Israel)

- 11:40-12:05 Anna Lange Consiglio (Italy) - *First veterinary applications of perinatal cells and their derivatives*
- 12:05-12:30 Florelle Gindraux (France) - *Clinical applications of the amniotic membrane in bone regeneration*
- 12:30-12:55 Tazio Maleitzke (Germany) - *Clinical applications of perinatal cells for tendon repair*
- 12:55-13:15 **AWARDS CEREMONY** (provided by IPLASS and Sponsors)
- MEETING CLOSURE**
- 13:15 *Light Lunch*
- 14:30-15:30 **IPLASS ASSEMBLY AND ELECTIONS**

