

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



PROGRAM AT A GLANCE

- COST Management Committee (MC) Meeting (only for COST MC members)
- COST European Science & Industry Workshop: *The vision beyond the SPRINT COST Action*

Sessions

- I. The mechanisms of action of perinatal derivatives
- II. Advances in *in vitro* and *in vivo* studies using perinatal derivatives
- III. Clinical applications of perinatal derivatives

- Award Ceremony
- IPLASS Assembly and Elections

Social Event

- September 2: Tour of the *Berlucchi* winery followed by dinner on the winery premises

SCIENTIFIC BOARD

Sveva Bollini, Università degli Studi di Genova, Italy
Cesar V. Borlongan, University of South Florida, Tampa, USA
Florelle Gindraux, CHU Besançon, France
Roberto Gramignoli, Karolinska Institutet, Stockholm, Sweden
Francisco José Nicolás Villaescusa, IMIB-Arrixaca, Murcia, Spain
Ornella Parolini, Università Cattolica del Sacro Cuore, Rome, Italy
Peter Ponsaerts, University of Antwerp, Belgium
Antonietta R. Silini, CREM-Fondazione Poliambulanza, Brescia, Italy



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ORGANIZING COMMITTEE

Ornella Parolini
Antonietta R. Silini

Secretariat, Centro di Ricerca E. Menni-Fondazione Poliambulanza

For more info:

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www.iplassociety.org

www.sprint-cost.org



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), IPLASS President (Cesar V. Borlongan, USA), and 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 and immortalised human umbilical vein cell line*
- 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**