

# 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



**LabTech**



**VODEN**

**TERUMO**  
BLOOD AND CELL TECHNOLOGIES

**Sial**

### 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](http://www.iplassociety.org)

[www.sprint-cost.org](http://www.sprint-cost.org)



**FRIDAY, September 2, 2022**

Venue: Centro Paolo VI, Brescia

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

## COST EUROPEAN SCIENCE & INDUSTRY WORKSHOP

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

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

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|-------------|---|
| 14:15-14:40 | Bernd Giebel (Germany) - <i>Functional and potency assays governing mesenchymal stem/stromal cells</i>  |
| 14:40-15:05 | Francisco José Nicolás Villaescusa (Spain) - <i>Mechanisms of action of the amniotic membrane in wound healing</i><br><br><i>Selected short presentations</i>   |
| 15:05-15:15 | Andrea Papait (Italy) - <i>Defining the impact of the EVs on the immunomodulatory properties of the amniotic mesenchymal stromal cell secretome.</i>  |
| 15:15-15:25 | Melanie Pichlsberger (Austria) - <i>Testing of wound dressing materials for colonization with mesenchymal stromal cells</i>   |
| 15:25-15:35 | Karolina Radziun (United Kingdom) - <i>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</i> |
| 15:35-16:00 | Coffee break  |
| 16:00-16:40 | <b>Keynote lecture:</b> Cesar V. Borlongan (USA) - <i>Do stem cells really work? What have we learned in 30 years of research?</i>  |

17:00 Bus leaves meeting venue for Visit to Berlucci 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) - <i>Wharton's jelly mesenchymal stromal cells release small extracellular vesicles (sEV) with neuro-regenerative potential</i>
9:25-9:50	Peter Ponsaerts (Belgium) - <i>Inconsistencies and challenges in preclinical studies using perinatal derivatives in neurodegenerative disorders</i>
9:50-10:15	Francesca Elice (Italy) - <i>Perinatal derivatives to combat COVID-19</i>
10:15-10:40	Mateja Erdani Kreft (Slovenia) - <i>Applications of the amniotic membrane in cancer</i>
10:40-11:10	Coffee break
	<i>Selected short presentations</i>
11:10-11:20	Luciana Barros Sant'Anna (Brazil) - <i>Amniotic membrane modulates MMP9 and MMP12 gene and protein expression in experimental model of the hepatic fibrosis</i>
11:20-11:30	Angelo Canciello (Italy) - <i>Onset of hybrid E/M phenotype enhances stemness, plasticity and immunomodulatory properties in amniotic epithelial cells</i>
11:30-11:40	Roberto Gramignoli (Sweden) - <i>Human amniotic epithelial cells accelerate and improve healing of injured vocal folds: a human-relevant preclinical study</i>

## **SESSION 3: Clinical applications of perinatal derivatives**

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