

***IPLASS and CTESS Joint International Conference:***  
**New Horizons in Cell and Tissue Engineering and Perinatal Derivatives**



Društvo za celično in tkivno inženirstvo Slovenije  
Cell and tissue engineering society of Slovenia

***Scientific Programme***

**THURSDAY, September 19, 2024**

*Venue: Hotel Belvedere, Izola*

8:00-8:50 Registration and poster set-up

8:50-9:00 **OFFICIAL WELCOME AND OPENING** from

- Congress President (Mateja Erdani Kreft),
- President of the International Placenta Stem Cell Society (Antonietta Silini)
- President of Cell and Tissue Engineering Society of Slovenia (Matej Drobnič)

**SESSION 1: Elucidating the mechanisms of action of perinatal derivatives**

Chairs: [Fabio Marongiu](#), [Sveva Bollini](#)

9:00- 9:25 **Roberto Gramignoli** (Italy) - *Immune regulatory and modulatory effects offered by intact hAEC and soluble mediators*

9:25 -9:50 **Mateja Erdani Kreft** (Slovenia) - *Mechanisms of action of hAM in addressing cystitis and bladder cancer*

9:50-10:15 **Francisco J. Nicolas** (Spain) - *Assessing the contribution of the different populations of AM-cells to the AM wound-healing beneficial effect*

**SESSION 2: Biomolecules and tissue engineering**

Chairs: [Nataša Resnik](#), [Florelle Gindraux](#)

10:15-10:30 **Nefertiti Chaves-Solano** (Austria) - *Pro-regenerative miRNA from human amniotic membrane as a potential source for tissue regeneration*

10:30-10:45 **Valeria Pizzuti** (Italy) - *Combining Urine Derived Renal Epithelial Cells and Wharton's Jelly Mesenchymal Stem Cells into a spheroid: structural insights and immunomodulatory properties*

10:45-11:00 **Hristina Obradović** (Serbia) - *Harnessing the potential of amniotic membrane homogenate: a novel bioink for 3D bioprinting in breast reconstruction*

11:00-11:15 **Alice Masserdotti** (Italy) - *Engineering a biodigital placenta for advanced drug testing*

11:15-11:45 Coffee break and poster viewing

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**KEYNOTE LECTURE**

Chairs: [Fabio Marongiu](#), [Sveva Bollini](#)

11:45-12:25 **Toshio Miki** (Japan) - *Unlocking the Potential of Amniotic Epithelial Cells: Past Achievements and Future Prospects*

12:30-13:30 Lunch

**SESSION 3: New therapeutic applications of perinatal derivatives**

Chairs: [Francisco J. Nicolás](#), [Andreina Schoeberlein](#)

13:30-13:55 **Michela Pozzobon** (Italy) - *Muscle regeneration in translational research*

13:55-14:20 **Panagiotis Mallis** (Greece) - *Deciphering the immunoregulatory role of MSCs and their potential application in inflammatory diseases*

14:20-14:45 **Fabio Marongiu** (Italy) - *Investigating the Potential Application of the Amniotic Membrane and Amniotic Epithelial Cells in Ophthalmology: a focus on Retinal Regeneration*

14:45-15:10 **Jessica Schiavi-Tritz** (France) - *Bioproduction of secretome by Wharton Jelly Mesenchymal Stromal Cells – a mechanobiological approach*

15:10-15:40 Coffee break and poster viewing

**SESSION 4: New ideas and innovative PhD projects**

Chairs: [Roberto Gramignoli](#), [Ivana Okić-Djordjević](#), [Janja Zupan](#)

15:40-15:55 **Vlasta Hadalin** (Slovenia, Germany) – *Towards exploring the role of RPGR isoforms for retinitis pigmentosa and cone/cone-rod dystrophy in human retinal organoid*

15:55-16:10 **Silvia Alcaez Romero** (Spain) – *Amniotic membrane therapeutical effect in wound healing is preserved 48 hours after thawing*

16:10-16:25 **Laura Guerricchio** (Italy) – *Extracellular vesicles from second trimester human amniotic fluid as novel therapeutics for skeletal and cardiac muscle injury*

16:25-16:40 **Martina Della Lastra** (Italy) – *Human amnion epithelial secretome may drive the generation of NK cells with lower proliferative capability and higher effector functions*

16:40-16:55 **Enzo Calarco** (Italy, Sweden) - *Intact cells or secretome in support of immune system re-education, tissue regeneration, or oncological treatment?*

**18:00 Social Event**

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**FRIDAY, September 20, 2024**

*Venue: Hotel Belvedere, Izola*

8:00-8:30 Registration and poster viewing

**SESSION 5: Moving Cell and Tissue Engineering into the Clinic**

Chairs: [Susanne Wolbank](#), [Matej Drobnič](#)

8:30- 8:55 **Florelle Gindraux** (France) – *Successful use of hAM in oral surgery and ophthalmology - role of its immunogenicity*

8:55-9:20 **Roman Jerala** (Slovenia) – *Synthetic biology for engineering signaling pathways for therapeutic applications*

9:20-9:45 **Helena H. Chowdhury** (Slovenia) – *Personalized dendritic cell-based immunohybridoma vaccines to treat solid cancers*

9:45-10:10 **Ana Flores** (Spain) – *Role of perinatal mesenchymal mesenchymal stromal cells of the decidua in the repair of pelvic floor tissue damage*

10:10-10:35 **Dzihan Abazovic** and **Dušan Marić** (Serbia) - *Advanced Strategies in Cell Therapy for Cartilage Repair: Innovations and Clinical Applications*

10:35-10:40 Short presentation

10:40-11:00 Coffee break and poster viewing

**SESSION 6: Therapeutic Strategies of Cell and Tissue Engineering**

Chairs: [Nevenka Kregar Velikonja](#), [Tomaž Smrkolj](#)

11:00-11:25 **Sveva Bolini** (Italy) *Amniotic fluid derivatives for cardiac repair: hype or hope?*

11:25 -11:55 **Matej Drobnič** (Slovenia) - *Restoration of articular cartilage by using the tissue engineering procedures*

11:55 -12:20 **Raquel Cabrera-Pérez** (Spain) - *Use of Wharton's jelly mesenchymal stromal cells and extracellular vesicles in innovative therapies*

12:20-13:05 **Ivana Okić-Djordjević** (Serbia) *Developing mucoadhesive films with hAM homogenate for application in oral wound healing*

13:05-13:30 **IPLASS ASSEMBLY**

13:30-14:30 Lunch

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***ROUND TABLE: Past, present and future of regenerative medicine***

Chairs: [Matej Drobnič](#), [Antonietta R Silini](#)

14:30-15:30 Ornella Parolini, Susanne Wolbank, Mio Knežević,  
Damijan Radosavljevič, Primož Rožman, Matjaž Jeras

**KEYNOTE LECTURE**

Chairs: [Roberto Gramignoli](#), [Mateja Erdani Kreft](#)

15:30-16:10 **Naomi McGovern** (United Kingdom) - *Placental macrophages - their ontogeny and function*

16:15-16:45 **AWARDS CEREMONY and MEETING CLOSURE**