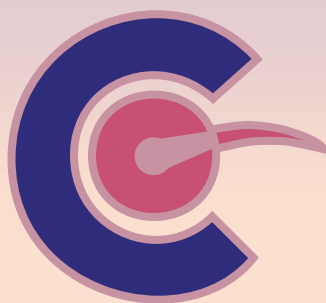


FINAL
PROGRAMME



18th Annual Meeting

ESRI

European Society for
Reproductive
Immunology

2-5 July 2025

Trieste, Italy

Under the Patronage of

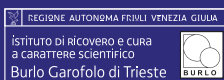


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FIRENZE

Da un secolo, oltre.



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DI TRIESTE



Dear Friends and Colleagues,

Welcome to the conference of the European Society for Reproductive Immunology (ESRI), taking place in Trieste, Italy, from July 2–5, 2025. We are confident that the participation of distinguished academics and experts from various disciplines will provide a platform for dynamic discussions and innovative ideas. We look forward to showing you Trieste, a border town and melting pot of at least three cultures — Latin, Slavic, and German — with a unique atmosphere.

Trieste has long stood at the crossroads of cultures and knowledge, a role that is still visible today in its vibrant intellectual life. The city hosts several internationally renowned centers for advanced studies and scientific research, making it a hub for academic exchange and innovation. We hope that during your stay, you will have the chance to experience not only the scientific richness of the meeting but also the elegantly Mitteleuropean charm that makes Trieste so special.

The National Organising Committee

Roberta Bulla, Chiara Agostinis, Giuseppe Ricci (Trieste)

Marie-Pierre Piccinni (Florence)

Wednesday, 2nd July, 2025

17.30 - 18.45 **OPENING CEREMONY**

Welcome address

Marie-Pierre Piccinni

In memory of Julia

Lectio Magistralis

Oposing roles of the complement system
in the pathophysiology of pregnancy

Francesco Tedesco

19.00 - 21.00 **Welcome reception**



Thursday, 3rd July, 2025

09.00 - 10.45 **TISSUE AND CELL REMODELLING AT FOETO-MATERNAL INTERFACE: NK CELLS, MACROPHAGES AND OTHER CELLS**
Chairs: Udo Markert & Theodora Keramitsoglou

09.00 - 09.30 Role of NK cells in implantation and pregnancy.
Angela Santoni

09.30 - 10.00 Lipid Homeostasis of Decidual Macrophages in Early Pregnancy.
Lianghui Diao

SELECTED ORAL PRESENTATIONS

10.00 - 10.15 **SOP01** Effectiveness of treatment of infertile women with activated cellular immunity. **Andrea Kestlerová**

10.15 - 10.30 **SOP02** Fetal allogenicity enhances the immune response involved in postpartum tissue healing. **Maria Emilia Solano**

10.30 - 10.45 **SOP03** Decidual macrophage efferocytosis of trophoblasts in full term human placenta. **Kylie Belchamber**

10.45 - 11.15 Coffee break

11.15 - 13.00 **IMMUNO MECHANISMS OF FOETO-MATERNAL TOLERANCE**
Chairs: Udo Jeschke & Marie-Pierre Piccinni

11.15 - 11.45 T Helper cells and pregnancy.
Marie-Pierre Piccinni

11.45 - 12.15 T Regulatory cells and pregnancy.
Shigeru Saito

SELECTED ORAL PRESENTATIONS

12.15 - 12.30 **SOP04** Characterization of maternal microchimeric cells in umbilical cord blood by HLA-targeted spectral flow cytometric cell sorting.
Rachel C. Quilang

12.30 - 12.45 **SOP05** Myeloid Cell - T Cell interactions are prominent in pregnancies with extreme fetal-maternal HLA incompatibility and an immune tolerant microenvironment. **Michael Eikmans**

12.45 - 13.00 **SOP06** Regulatory CD8⁺ T cells are modulated in preeclampsia pregnancies.
Wenqin Shi

13.00 - 14.30 Lunch break with Poster Session /ESRI BOARD meeting



Thursday, 3rd July, 2025

**14.30 - 16.15 CONSEQUENCE OF INFLAMMATION AT FOETO-MATERNAL
INTERFACE ON FOETAL AND NEWBORN DEVELOPMENT**
Chair: Kristin Thiele & Michael Eikmans

14.30 - 15.00 Galectins and the placenta-gut axis: a new frontier in foetal health.
Sandra Blois

15.00 - 15.30 Artificial Intelligence and In Vitro Fertilisation.
Agostino Accardo & Alessandro Biscontin

SELECTED ORAL PRESENTATIONS

15.30 - 15.45 **SOP07** Membrane-bound mitochondrial DNA: a potential senescence signal
in placenta tissue. **Alin Mishel Hernández Bustos**

15.45 - 16.00 **SOP08** Uterine dendritic cells exhibit a more tolerogenic phenotype and
function in subsequent pregnancies. **Kristin Thiele**

16.00 - 16.15 **SOP09** Intravenous immunoglobulin or intravenous lipid emulsion therapy
in patients with elevated NK cytotoxicity improves LBR but in
different ways. **Boris Donskoi**

16.30 - 19.30 Miramare Castle Tour



Friday, 4th July, 2025

09.00 - 10.45 **PHYSIO-PATHOGENETIC MECHANISMS OF IMPLANTATION AND PREGNANCY DISORDERS: THE COMPLEMENT SYSTEM AND OTHER MOLECULES**

Chairs: Paolo Macor & Roberta Bulla

09.00 - 09.30 Complement and Collectins in pregnancy
Uday Kishore

09.30 - 10.00 Placental extracellular vesicles and complement system: a warning signal for abnormal innate immune responses and hemostasis processes. **Taruna Madan**

SELECTED ORAL PRESENTATIONS

10.00 - 10.15 **SOP10** Differential expression of Complement regulators in preeclampsia and healthy pregnancy: trophoblast organoids as a model to recapitulate disease phenotype. **Miriam Toffoli**

10.15 - 10.30 **SOP11** Molecular mechanisms of SIRT1 in regulating decidual senescence and decidualization in PCOS through deacetylation modification. **Su Liu**

10.30 - 10.45 **SOP12** Epigenetic regulation of complement C1Q gene expression. **Silvia Pegoraro**

10.45 - 11.15 Coffee break

11.15 - 13.00 **RECURRENT MISCARRIAGES AND PRETERM BIRTH**

Chairs: Ole B. Christiansen & Petra Arck

11.15 - 11.45 Immunological ramifications preceding preterm birth in human pregnancies
Petra Arck

11.45 - 12.15 Endometrial functions in recurrent pregnancy losses
Nicoletta Di Simone

SELECTED ORAL PRESENTATIONS

12.15 - 12.30 **SOP13** Endometrial Immune profiling in patients with endometriosis associated-repeated implantation failures. **Nada J. Hacheichi**

12.30 - 12.45 **SOP14** Role of Treg cells in Recurrent Implantation Failure (RIF): decrease in endometrial Treg count may cause the RIF? **Marco Sbracia**

12.45 - 13.00 **SOP15** Leukocyte subset distributions during the midluteal phase: differences between women with recurrent pregnancy loss after IVF/ICSI and fertile controls. **Ole B. Christiansen**

13.00 - 14.30 Lunch break with Poster Session



14.30 - 16.15 AUTOIMMUNITY AND PREGNANCY**Chairs: Youla Varla-Leftherioti & Marie-Pierre Piccinni**

14.30 - 15.00 How much of the current therapy of obstetric APS agrees with our knowledge about its pathogenesis?

Pierluigi Meroni

15.00 - 15.30 Management and treatment of pregnancy in women with autoimmune diseases: a solution or a curse

Giacomo Emmi**SELECTED ORAL PRESENTATIONS**

15.30 - 15.45 **SOP16** *Developing a 3D organoid-based model to study maternal-fetal tolerance in systemic lupus erythematosus.* **Wendy Dankers**

15.45 - 16.00 **SOP17** *Impact of psoriasis and biologic therapy on trophoblast invasion: implications for pregnancy outcomes.* **Bart G.J. Moerings**

16.00 - 16.15 **SOP18** *Even low levels of anticardiolipin antibodies are associated with pregnancy-related complications: a monocentric cohort study.*

Ilona Hromadnikova

16.15 - 16.45 Coffee break

16.45 - 18.30 IMMUNOLOGICAL PATHOGENETIC MECHANISMS IN PREECLAMPSIA**Chairs: Diana Morales-Prieto & Chiara Agostinis**

16.45 - 17.15 Maternal heart disfunction and Preeclampsia

Tamara Stampalija

17.15 - 17.45 Innovative models for understanding the foetal-maternal interface

Claudia Gerri**SELECTED ORAL PRESENTATIONS**

17.45 - 18.00 **SOP19** *New insights into the extracellular matrix in pregnancy: the role of unexplored components borrowed from the tumor microenvironment.*

Eva Andreuzzi

18.00 - 18.15 **SOP20** *Galectin-1 dysregulation in preeclampsia: impact on cardiac remodeling and lipid profiles.* **Emma Giesen**

18.15 - 18.30 **SOP21** *Novel microarray for prediction of pregnancy complications using multi surface biomarkers on extracellular vesicle.* **Marei Sammar**

18.30 - 19.15 ESRI plenary assembly

20.30 - 23.00 Social Dinner



Saturday, 5th July, 2025

09.00-10.30 IMMUNOLOGY OF MALE REPRODUCTION

Chairs: **Maciej Kurpisz & Lorella Pascolo**

09.00 - 09.30 Potential prognostic molecular biomarkers for male infertility
Maciej Kurpisz

09.30 - 10.00 New technological frontiers for the study of reproductive tissues:
the synchrotron X-ray tomography
Elena Longo

SELECTED ORAL PRESENTATIONS

10.00 - 10.15 **SOP22** Effect of varicocele on the level of pro-inflammatory cytokines
in seminal plasma of patients. **Anna Havrylyuk**

10.15 - 10.30 **SOP23** Chronic prostatitis induces semen inflammation, disrupts
immunomodulation in the female genital tract, and compromises fertility.
María Sol Martínez

10.30 - 10.45 Coffee break

10.45-12.30 IMMUNOLOGY OF FEMALE REPRODUCTION AND FERTILITY PRESERVATION

Chairs: **Nathalie Lédée & Andrea Balduit**

10.45 - 11.15 Placental mechanisms of increased risk of PE in ovary donation
pregnancies: an open challenge
Gabriella Zito

11.15 - 11.45 In vitro endometrium models for deciphering human embryo implantation
Paola Piomboni

SELECTED ORAL PRESENTATIONS

11.45 - 12.00 **SOP24** Enhancing revascularization in Ovarian Tissue Transplantation (OTT):
do bioengineering strategies improve functionality? **Mariagiulia Spazzapan**

12.00 - 12.15 **SOP25** Impact of uterine immune profiling and personalized treatments in
patients receiving a Single blastocyst: a matched pair analysis. **Nathalie Lédée**

12.15 - 12.30 **SOP26** Galectin-1 regulates oocyte health via metabolic and mitochondrial
pathways. **Xue Wang**

12.30 - 13.30 SELECTED PRESENTATIONS PRIZE AWARD

Prize presentations
Prize sponsored by
the Journal of Reproductive Immunology

Closing remarks



- PP01** The Hidden Role of Multimerin-2: Unraveling the Link Between Preeclampsia and Oocyte Donation Pregnancies - **Francesca Rossi**
- PP02** Metabolic Aberrations in Endometrial Macrophages of Recurrent Miscarriage Patients: Glutamine's Pivotal Role in Lactate - Driven Autophagy and Polarization - **Ling Hong**
- PP03** Spatiotemporal Changes in Progesterone Receptor (PR) and PIBF Expression in the Endometrium During the Peri-Implantation Period in Mice - **Timea Judith Csabai-Tanics**
- PP04** HLA class I molecules are released by early pregnancy extravillous trophoblast via exosomes - **Rumiana Ganeva**
- PP05** The effects of rIL-35 and anti-Ebi3 neutralizing antibody on regulatory lymphocytes and fetal blood flow in abortion-prone murine pregnancy model - **Anna Slawek**
- PP06** Primary extravillous trophoblasts induce a regulatory phenotype in conventional CD4+ T cells - **Liseanne van 't Hof**
- PP07** Immune profiles in early pregnancy: A comparison of women with genetic abnormality-induced miscarriage and successful live birth - **Margarita Ruseva**
- PP08** Immune checkpoints TIM-3 and Gal-9 are upregulated in male placentas with acute SARS-CoV-2 infection - **Marina Christina Seefried**
- PP09** Interaction of Model Micro- and Nanoplastics with Human Reproductive and Endothelial Cells using measurements at Synchrotron facilities - **Cristina Tufoni**
- PP10** Regulatory B cells and IL-33 receptor (ST2) in normal pregnancy and after miscarriage - **Paulina Kubik**
- PP11** Extracellular vesicles and cytokines from menstrual blood-derived mesenchymal stromal cells: potential regulators of trophoblast invasion in a 3D model - **Katherine Phillips**
- PP12** Galectin profiles in maternal metabolic adaptation: insights from the first and second trimesters - **Mariana G. Garcia**
- PP13** Differential expression of microRNA in exosomes derived from uterine fluid of women with thin endometrium - **Xian Chen**
- LP01** Using Machine Learning Algorithms to approach the incidence of types/ isotypes of antiphospholipid antibodies in women with sub-fertility problems - **Theodora Keramitsoglou**
- LP02** MicroRNA-199a-5p and Autophagy related gene 5 in Behçet Disease: Possible Relation and Association with Disease Severity - **Mervat Eissa**
- LP03** Artificial intelligence to establish the embryo ploidy from the sequence of scalar IVF data. - **Katerina Komrskova**
- LP04** Endothelial Uptake of Nanoplastics in the Fetal Vascular Niche: Early Markers of Immune Stress and Transgenerational Risk - **Sara Bozzer**



POSTER SESSION 2 4th July, 2025 13:00 - 14:30

- PP14** Elevated Galectin-1 in Women with Recurrent Preeclampsia: Links to BMI and Long-Term Hypertension Risk - **Chiara Alfarè**
- PP15** Characterization of CD93 in art pregnancies: a potential biomarker for predicting pre-eclampsia - **Barbara Fogar**
- PP16** Establishment of trophoblast derived organoids for studying pre-eclampsia: evaluation of preventive treatments - **Rita Capiali**
- PP17** DuraClone IF Immune Functional Cytometry for Th1/Th2 Cytokine Ratio Assessment - **Kristýna Chládková**
- PP18** Genotype of Killer -cell immunoglobulin- like receptors in patients with reproductive failures and fertile women (surrogate mothers and oocyte donors) - **Iryna Sudoma**
- PP19** Relationship between follicular fluid cytokine profile, follicular size and women age in physiological natural cycles - **Federica Logiodice**
- PP20** How does the intrauterine administration of PBMC improve the endometrial immune environment? - **Rumiana Ganeva**
- PP21** Single-cell transcriptomics identify the role of endometrial SEMA4D+NK cells and its potential clinical value research in patients with recurrent implantation failure - **Mingye Chen**
- PP22** Complement component C7 in endometriosis: a trap for the assembling terminal complement complex? - **Chiara Agostinis**
- PP23** Evaluating PBMC infusion as a treatment for recurrent implantation failure: a pilot study on its effectiveness in improving endometrial receptivity and vascularization - **Teresa Bulfone**
- PP24** Correlation between follicular fluid cytokines and follicular fluid hormones and role of follicular fluid hormones on the follicular dimensions in human physiological natural cycles - **Letizia Lombardelli**
- PP25** Endothelial Cell Expansion in the NANT XL Bioreactor: A Fully Automated Approach with High Yield and Viability for Cell Therapy Approaches - **Mariagiulia Spazzapan**
- PP26** Clinical Significance of Quantification and Immunophenotyping of Uterine NK Cells in the Diagnosis and Treatment of Infertility - **Karin Cerná**
- PP27** Genotyping of KIR and HLA-C in diagnosis of infertility. - **Hanna Motak-Pochrzęst**
- PP28** Obesity, Inflammation and Reproduction - **Kinga Szabóová**
- LP05** Micronutrient–Antioxidant Therapy, Male Fertility Improvement and ICSI Outcomes: Double-Blind, and Placebo-Controlled Clinical Trial - **Marwa Lahimer**
- LP06** Peripheral immune cells in the first trimester as early indicators for future preeclampsia-related complications - **Margarita Ruseva**
- LP07** Uncovering rare variants in Endometriosis and associated infertility: Insights from an Italian Whole-Exome Sequencing study - **Aurora Santin**



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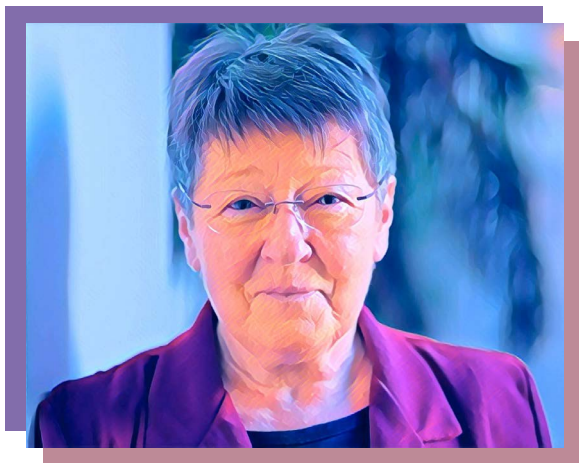
Diana Morales (Germany)

Júlia Szekeres-Barthó (Hungary) †

Kristin Thiele (Germany)

Marigoula Varla-Leftherioti (Greece)

In loving memory of
Júlia Szekeres-Barthó



Research Professor, Emeritus Professor
of the Institute of Medical Biology,
Faculty of Medicine, University of Pécs,
and an outstanding figure in Hungarian and
international Reproductive Immunology



[illegible]



Invited Speakers

Agostino **Accardo** (Italy)
Petra **Arck** (Germany)
Alessandro **Biscontin** (Italy)
Sandra **Blois** (Germany)
Nicoletta **Di Simone** (Italy)
Lianghui **Diao** (China)
Giacomo **Emmi** (Italy)
Claudia **Gerri** (Germany)
Uday **Kishore** (United Kingdom)
Maciej **Kurpisz** (Poland)
Elena **Longo** (Italy)
Taruna **Madan** (India)
Pierluigi **Meroni** (Italy)
Paola **Piomboni** (Italy)
Shigeru **Saito** (Japan)
Angela **Santoni** (Italy)
Tamara **Stampalija** (Italy)
Francesco **Tedesco** (Italy)
Gabriella **Zito** (Italy)

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Marigoula **Varla-Leftherioti** (Greece)

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Acknowledgement

We thank our Sponsors
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