The ECTORS board welcomes you to Rotterdam for the 3rd ECTORS meeting! We are thrilled to be able to provide participants vast networking opportunities to gain insights into advancements within cellular therapies and regenerative medicine in organ transplantation. Following the success of our two previous editions, we are excited to be inspired once again by many exciting speakers.

Part of this meeting will be hosted at the prestigious Erasmus Medical Center, which will provide both an academic atmosphere and the opportunity for participants to visit active organ reconditioning and organoid culture laboratories during the meeting. The programme is composed of three main themes, namely organ perfusion, cellular therapies and organoids. We will also discuss the latest research and possibilities in clinical regeneration.

In the afternoon of day one we invite all delegates, faculty and sponsors to gather for further discussions in a less formal setting. Together, with Young Professionals in Transplantation (a Section of ESOT), we will share our knowledge and opinions on various topics related to transplant science. This round table discussion will be followed with a networking reception at the venue.

Thank you for joining us in Rotterdam. We hope you are as excited as us to collaborate with other like-minded professionals and further your knowledge in the field!

Marlies Reinders, Sandra Lindstedt, Marco Eijken, Marcella Franquesa, Martin Hoogduijn Sarah Hosgood and Bojan Vrtovec
(The ECTORS Board)
**Venue**

The Kunsthala Museum  
Museumpark  
Westzeedijk 341  
3015 AA Rotterdam  
The Netherlands

**Networking**

We invite all delegates to join us for Networking Reception at 17:30 in the Kunsthala Museum Café.

**Scientific Committee**  
**ECTORS Board**

Marlies Reinders, Rotterdam, The Netherlands - Chair  
Sandra Lindstedt Ingemansson, Lund Sweden - Vice Chair  
Marco Eijken - Aarhus, Denmark  
Marcella Franquesa Bartolome - Badalona, Spain  
Sarah Hosgood - Oxford, UK  
Bojan Vrtovec - Ljubljana, Slovenia  
Martin Hoogduijn - Rotterdam, The Netherlands - Past Chair
### SCIENTIFIC PROGRAMME AT A GLANCE

#### 3rd ECTORS MEETING
29 - 30 September 2022, Rotterdam Netherlands

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- **Official Opening (10:45)**
- **Session 1**: From basic science to clinical practice
- **BREAK**
- **Session 2**: Evaluation of therapeutic interventions and organ quality using ex vivo organ slices
- **BREAK**
- **Parallel Session 3**: Science Round Table
- **Parallel Session 3**: Laboratory Session (hosted at ERASMUS MC)
- **Networking Reception**
- **Session 4**: Combining machine perfusion with cellular therapies
- **BREAK**
- **Session 5**: New players in organ regeneration
- **BREAK**
- **Session 6**: Tools for repairing organs
- **moderated Poster**
Day 1: 29 September 2022 | Thursday

10:50 – 11:00 Welcome: ECTORS – the way forward
Chair: Marlies Reinders | Rotterdam, The Netherlands

11:00 – 12:30 Session 1:
From basic science to clinical practice
Chairs: Marlies Reinders | Rotterdam, The Netherlands
Cees van Kooten | Leiden, The Netherlands

11:00 – 11:20 Liver regeneration: transplantation and machine perfusion
Jeroen de Jonge | Rotterdam, The Netherlands

11:20 – 11:40 Immune monitoring after cellular and perfusion therapies
Cees van Kooten | Leiden, The Netherlands

11:40 – 12:00 Discussion panel

12:00 – 12:10 [OP01] MESENCHYMAL STROMAL CELLS IMMUNOMODULATE WITH MINIMAL EFFECT ON CLINICAL STATE OF RENAL TRANSPLANT PATIENTS
Aruna Rakha | Chandigarh, India

12:10 – 12:20 [OP02] ASSESSING THE QUALITY OF DONOR KIDNEYS DURING NORMOTHERMIC MACHINE PERFUSION USING NANOPARTICLE-BASED VITALITY SENSORS
Jesper Staulund | Aarhus, Denmark

12:20 – 12:30 [OP03] EFFECTS OF FECAL MICROBIOTA TRANSPLANTATION ON CHRONIC KIDNEY DISEASE: AN INNOVATIVE APPROACH
Gianvito Caggiano | Bari, Italy

12:30 – 13:30 LUNCH BREAK
13:30 – 14:00 Moderated Poster (1)

Chair: Jan Czogalla | Hamburg, Germany

13:30 – 13:35 [POS01] CORONARY ALLOGRAFT VASCULOPATHY IS ASSOCIATED WITH DECREASED CD34+ PERIPHERAL CELL COUNT IN PATIENTS AFTER HEART TRANSPLANTATION
Gregor Poglajen | Ljubljana, Slovenia

13:35 – 13:40 [POS02] EARLY PHASE CLINICAL TRIALS USING BIO-ARTIFICIAL ORGAN TECHNOLOGY: A SYSTEMATIC REVIEW OF ETHICAL ISSUES
Dide de Jongh | Rotterdam, The Netherlands

13:40 – 13:45 [POS03] THE ROLE OF THE COMPLEMENT SYSTEM IN LIVER ISCHAEMIA REPERFUSION INJURY
Balaji Mahendran | Newcastle, United Kingdom

13:45 – 13:50 [POS04] PREDICTION OF VESSEL OCCLUSION DURING RECELLULARIZATION USING A COMPUTATIONAL FLUID DYNAMICS MODEL
Van Lap Nguyen | Tokyo, Japan

13:50 – 13:55 [POS05] ORGAN VIABILITY ASSESSMENT WITH IMAGING MEASUREMENT TECHNOLOGY DURING MACHINE PERFUSION FOR PORCINE LIVER DONATED AFTER CARDIAC DEATH
Hiromichi Obara | Hachioji, Japan

13:55 – 14:00 [POS06] EFFECT OF PERFUSATE COMPOSITION DURING LONG-TERM PERFUSION OF LIVERS USING A PRECISION CUT LIVER SLICE MODEL
Julia Hofmann | Innsbruck, Austria
14:00 – 15:30 Session 2: Evaluation of therapeutic interventions and organ quality

Chairs: Sandra Lindstedt | Lund, Sweden
Marco Eijken | Aarhus, Denmark

14:00 – 14:20 Deep molecular profiling of kidney normothermic machine perfusion: towards discovering therapeutic opportunities
Jan Czogalla | Hamburg, Germany

14:20 – 14:40 Liver and kidney
Peter Olinga | Groningen, The Netherlands

14:40 – 15:00 Discussion panel

15:00 – 15:10 [OP04] INHIBITION OF THE ACTIVIN SIGNALING PATHWAY DURING EX-VIVO NORMOTHERMIC MACHINE PERFUSION AS A NOVEL THERAPY IN KIDNEY TRANSPLANTATION
Thomas Weiss | Aarhus, Denmark

15:10 – 15:20 [OP05] HUMAN TRANSPLANT KIDNEYS ON NORMOTHERMIC MACHINE PERFUSION DISPLAY ENDOCRINE ACTIVITY
Hui Lin | Rotterdam, The Netherlands

15:20 – 15:30 [OP06] NEUTROPHIL EXTRACELLULAR TRAPS REMOVAL DURING EX VIVO LUNG PERFUSION IMPROVES LUNG FUNCTION IN A PORCINE LUNG INJURY MODEL
Margareta Mittendorfer | Lund, Sweden

15:30 – 16:00 COFFEE BREAK & MOVE TO ERASMUS MC
16:00 – 17:30 Parallel Session 3: Laboratory sessions (at ERASMUS MC)

Chairs: Monique Verstegen | Rotterdam, The Netherlands
       Martin Hoogduijn | Rotterdam, The Netherlands

Group 1: Organ reconditioning laboratory
Monique Verstegen | Rotterdam, The Netherlands

Group 2: Kidney organoid culture laboratory
Sander Korevaar | Rotterdam, The Netherlands

Group 3: iPSC core facility
Mehrnaz Ghazvini | Rotterdam, The Netherlands

Group 4: Lung organoids laboratory
TBC

Group 5: Heart cells culturing laboratory
Heleen van Beusekom | Rotterdam, The Netherlands

16:00 – 17:30 Parallel Session 3: Science Round Table

Chair: Stan Benjamens | Groningen, The Netherlands

In several small groups, young professionals and experienced researchers will discuss important topics related to (transplantation) science. Among others, we will discuss Diversity-Equity-Inclusion (DEI), combining science and family, career planning, grant writing and performing science abroad. The sessions will start with a short round of introductions, followed by a moment to share experiences on the specific topic to be discussed. Discussion leaders will provide guidance for a vibrant discussion, aiming for equal input from both the young professionals and more experienced peers

17:30 – 18:30 Networking reception
Day 2: 30 September 2022 | Friday

09:00 – 10:30 Session 4: Combining machine perfusion with cellular therapies
Chairs: Sarah Hosgood | Cambridge, United Kingdom
        Bojan Vrtovec | Ljubljana, Slovenia

09:00 – 09:20 Machine perfusion and the application of MSC
        Bente Jespersen | Aarhus, Denmark

09:20 – 09:40 Kidney machine perfusion and extracellular vesicles, University of Bologna experience
        Matteo Ravaioli | Bologna, Italy

09:40 – 10:30 Discussion panel

10:30 – 11:00 COFFEE BREAK

11:00 – 12:30 Session 5: New players in organ regeneration
Chairs: Marcella Franquesa | Badalona, Spain
        Marten Engelse | Leiden, The Netherlands

11:00 – 11:20 Renal regeneration and extracellular matrix
        Nuno Neves | Braga, Portugal

11:20 – 11:40 From an in vivo to an ex vivo engraftment strategy in islet transplantation
        Lorenzo Piemonti | Milan, Italy

11:40 – 12:00 Discussion Panel

12:00 – 12:10 [OP07] DECELLULARIZED HUMAN VEINS AS MODEL FOR VASCULAR REPAIR AND ENDOTHELIAL CELL CHIMERISM IN ORGANTRANSPLANTATION
        Hector Tejeda Mora | Rotterdam, The Netherlands
12:10 – 12:20 [OP08] DNA VECTOR-INDUCED EPO-OVEREXPRESSING KIDNEY ORGANOIDS INCREASE HEMATOCRIT LEVELS
Zhaoyu Du | Rotterdam, The Netherlands

12:20 – 12:30 [OP09] A BIOENGINEERED VASCULARIZED SPLEEN MATRIX AS AN ENDOCRINE NEO PANCREAS
Louis Maistriaux | Leuven, Belgium

12:30 – 13:30 LUNCH BREAK

13:30 – 14:00 Moderated Poster (2)

13:30 – 13:35 [POS07] CREATING A KIDNEY ORGANOID VASCULATURE INTERACTION MODEL USING A NOVEL ORGAN-ON-CHIP SYSTEM.
Amanda Bas-Cristóbal Menéndez | Rotterdam, The Netherlands

13:35 – 13:40 [POS08] MODELLING KIDNEY FIBROSIS IN HUMAN KIDNEY ORGANOIDS
Shengbing Li | Rotterdam, The Netherlands

Nina Onishchenko | Moscow, Russia

Fabio Sallustio | Bari, Italy
Denis Efimov | Minsk, Belarus

13:55 – 14:00 [POS12] HIGH THROUGHPUT PRODUCTION OF EXTRACELLULAR VESICLES (EVS) FROM IMMORTALIZED WHARTON’S JELLY MESENCHYMAL STROMAL CELLS (IWJ-MSC) (EVS)
Sergio Garcia Garcia | Badalona, Spain

14:00 – 15:30 Session 6: Tools for repairing organs
Chairs: Bojan Vrtovec | Ljubljana, Slovenia
                Martin Hoogduijn | Rotterdam, The Netherlands

14:00 – 14:20 New approaches for kidney disease modeling and tissue regeneration
Christos Xinaris | Bergamo, Italy

14:20 – 14:40 Cardiovascular regenerative medicine in the clinical setting
Giulio Pompilio | Milano, Italy

14:40 – 15:00 Tracking of administered cells
Patricia Murray | Liverpool, United Kingdom

15:00 – 15:30 Discussion Panel
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Fredrica, liver transplanted after 9 months on the waiting list

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