



ROTTERDAM

The Netherlands

3rd ECTORS
meeting

29-30
September 2022

#ESOT_ECTORS #ECTORSmeeting

FINAL PROGRAMME

WELCOME

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)*

GENERAL INFORMATION

Venue

The Kunsthal 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 Kunsthal 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

SCIENTIFIC PROGRAMME AT A GLANCE
3rd ECTORS MEETING
29 - 30 September 2022, Rotterdam Netherlands



Thursday, 29 September 2022		Friday, 30 September 2022	
8:30 AM			8:30 AM
9:00 AM			9:00 AM
9:30 AM		Session 4: Combining machine perfusion with cellular therapies	9:30 AM
10:00 AM			10:00 AM
10:30 AM	Official Opening (10:45)	BREAK	10:30 AM
11:00 AM			11:00 AM
11:30 AM	Session 1 From basic science to clinical practice	Session 5: New players in organ regeneration	11:30 AM
12:00 PM			12:00 PM
12:30 PM	BREAK	BREAK	12:30 PM
1:00 PM			1:00 PM
1:30 PM	moderated Poster	moderated Poster	1:30 PM
2:00 PM		Session 6: Tools for repairing organs	2:00 PM
2:30 PM	Session 2 Evaluation of therapeutic interventions and organ quality using ex vivo organ slices		2:30 PM
3:00 PM			3:00 PM
3:30 PM	BREAK		3:30 PM
4:00 PM			4:00 PM
4:30 PM	Parallel Session 3: Science Round Table	Parallel Session 3 Laboratory Session (hosted at ERASMUS MC)	4:30 PM
5:00 PM			5:00 PM
5:30 PM			5:30 PM
6:00 PM	Networking Reception		6:00 PM
6:30 PM			6:30 PM

SCIENTIFIC PROGRAMME

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

SCIENTIFIC PROGRAMME

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

SCIENTIFIC PROGRAMME

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

SCIENTIFIC PROGRAMME

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 Benjamins | 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

SCIENTIFIC PROGRAMME

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 ORGAN TRANSPLANTATION

Hector Tejada Mora | Rotterdam, The Netherlands

SCIENTIFIC PROGRAMME

12:10 – 12:20 [OP08] DNA VECTOR-INDUCED EPO-OVEREXPRESSING KIDNEY ORGANIDS INCREASE HEMATOOCRIT 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)

Chair: Fotios Sampaziotis | Cambridge, United Kingdom

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 ORGANIDS
Shengbing Li | Rotterdam, The Netherlands

13:40 – 13:45 [POS09] COMPARISON OF THE EFFECTIVENESS OF THE TOTAL RNA AND APOPTOTIC BONE MARROW CELLS USING ON REGENERATIVE PROCESSES IN THE LIVER
Nina Onishchenko | Moscow, Russia

13:45 – 13:50 [POS10] THE LNCRNA HOTAIR CONTROLS THE SELF-RENEWAL, CELL SENESCENCE, AND SECRETION OF ANTIAGING PROTEIN A-KLOTHO IN HUMAN ADULT RENAL PROGENITOR CELLS
Fabio Sallustio | Bari, Italy

SCIENTIFIC PROGRAMME

13:50 - 13:55 [POS11] INTRAPORTAL HUMAN ALLOGENEIC MESENCHYMAL STEM CELLS INFUSION FOR POSTHEPATECTOMY LIVER FAILURE PREVENTION: THE PILOT CASE SERIES EXPERIENCE
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





We believe in an extended life of organs

**Nobody should die waiting
for a new organ.**


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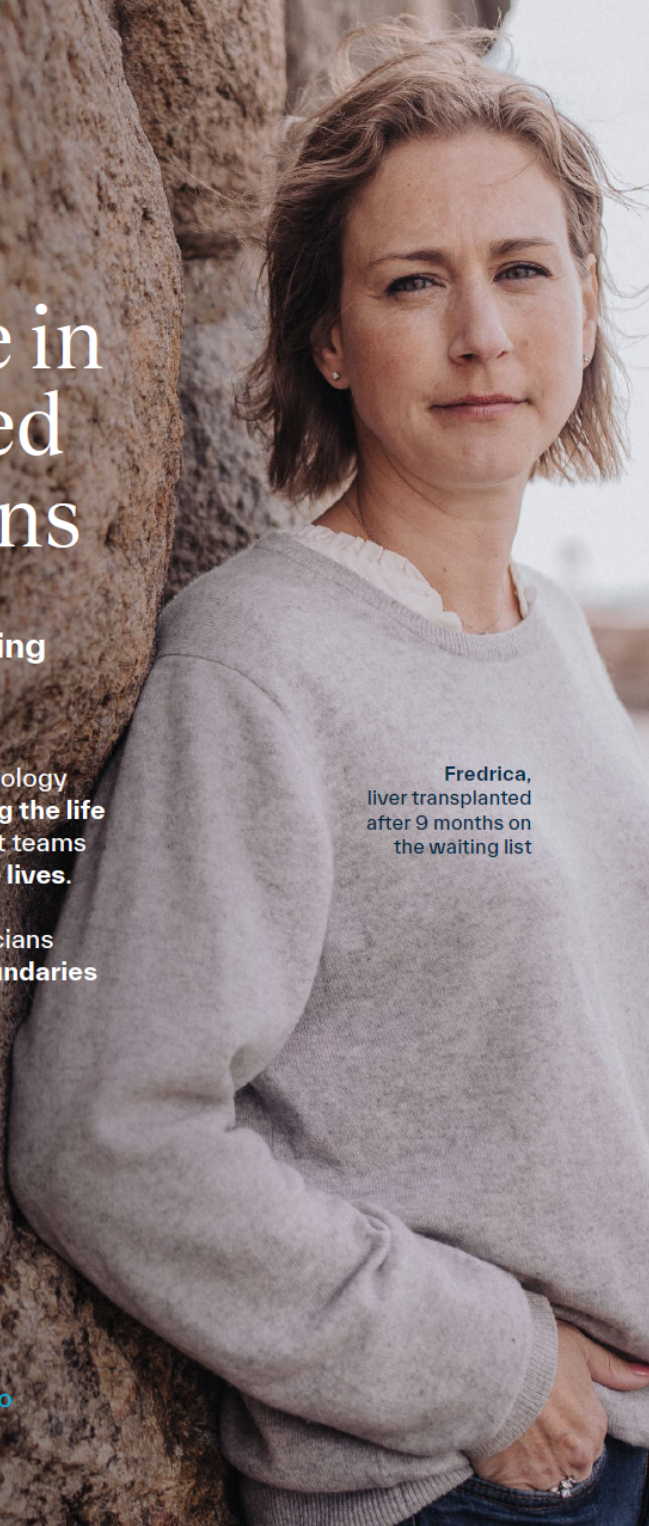
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Fredrica,
liver transplanted
after 9 months on
the waiting list



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