

14-15 SEPTEMBER 2019
COPENHAGEN, DENMARK

1st ECTORS Meeting

Copenhagen
14, 15 September 2019



1ST ECTORS MEETING SUPPORT OPPORTUNITIES

MEETING CHAIR:

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ABOUT ESOT

The European Society for Organ Transplantation (ESOT) is the umbrella organisation under which all European transplant activities are organised.

ESOT cooperates with many other organisations to structure and streamline transplant activities in Europe. Several Sections and Committees within ESOT represent expert knowledge on the respective organs and specialty fields.

ESOT trains and supports its members through an extensive Educational Programme and encourages excellence through its Awards & Grants Programme.

Furthermore, ESOT gathers the European and international transplant scene at its biennial Congress.

ABOUT ECTORS

The European Cell Therapy and Organ Regeneration Section (ECTORS) was welcomed as a new section of ESOT at the end of 2018.

ECTORS incorporates and builds on the previous work of the international MiSOT (Mesenchymal Stem Cells in Solid Organ Transplantation) Consortium.

ECTORS strives to facilitate active engagement between researchers, clinicians and industry and to provide a dynamic platform to discuss the application of cellular-based therapies and organ reconditioning technologies in organs transplantation and regeneration.

ABOUT ECTORS MEETING

- ✓ **Date:** 14 - 15 September, 2019
- ✓ **City:** Copenhagen, Denmark
- ✓ **Meeting Theme:** Regenerative medicine in organ transplantation
- ✓ **Meeting Objectives:** The inaugural ECTORS meeting will focus on state of the art regenerative medicine in organ transplantation and reconditioning. This meeting will provide an outstanding opportunity to review the latest developments in clinical studies of cellular therapies on the road to clinical application. Networking between researchers and Industry from different fields of regenerative medicine is a central part of the meeting.
- ✓ **Expected attendance:** 80 - 100
- ✓ **Target audience:** We address this meeting to following groups interested in stem cell therapy, organ reconditioning and organ regeneration
 - basic scientists
 - clinicians
 - corporations

ABOUT THE 1ST ECTORS MEETING

ECTORS will host its first meeting prior to ESOT 2019 Congress in Copenhagen. The main goal for this meeting are to communicate and publicize the latest developments and achievements in regenerative medicine for organ transplantation; to establish new contacts in the field and to form foundation for ECTORS to build on in the future. By working together with ESOT, ECTORS aim to provide a forum for researchers and industry to share ideas, to develop innovative collaborations, to stimulate clinical research, to encourage scientific outreach and ultimately to improve patient care.

TOPICS FOR THE 1ST ECTORS MEETING

01

Mesenchymal stem cell therapy in solid organ transplantation

03

Organ reconditioning through machine perfusion

02

Organoids

04

Corporate look at regenerative medicine

DAY 01

9:00 - 9:30	Opening Session	Marc Dahlke, Martin Hoogduijn
9:30 - 11:00	Session 1 Stem cells new developments <ul style="list-style-type: none">10:00 - 10:30 MSC mechanism of action10:30 - 11:00 MSC in organ injury11:00 - 11:30 Liver organoids from adult stem cells	Marc Dahlke, Martin Hoogduijn Francesco Dazzi, United Kingdom Rafael Kramann, Germany Luc van der Laan, The Netherlands
11:00 - 11:30	Coffee Break	
11:30 - 13:00	Session 2 Cell therapy clinical trials <ul style="list-style-type: none">11:30 - 12:00 MSC in clinical kidney transplantation12:00 - 12:30 From phase 1 to phase 2 clinical trials with MSC in kidney transplantation12:30 - 13:00 Lessons learned from stem cell clinical trials	Marcella Franqueza, Chris Johnson Norberto Perico, Italy Marlies Reinders, The Netherlands Jens Kastrup, Denmark
13:00 - 14:00	Lunch	
14:00 - 15:30	Session 3 Organ reconditioning <ul style="list-style-type: none">14:00 - 14:30 Kidney machine perfusion14:30 - 15:00 Liver machine perfusion15:00 - 15:30 Regeneration on the pump	Sarah Hosgood, Marlies Reinders Sarah Hosgood, United Kingdom Nicholas Gilbo, Belgium Rutger Ploeg, United Kingdom
15:30 - 16:00	Coffee Break	
16:00 - 17:00	Session 4 Mini Oral Presentations*	Martin Hoogduijn, Chris Johnson
17:00 - 18:00	Session 5 Corporate Perspective	Martin Hoogduijn, Chris Johnson

DAY 02

9:00 - 10:00	Session 6 Full Oral Presentations*	Federica Casiraghi, Marc Dahlke
10:00 - 10:50	Key Note Lecture The use of pluripotent stem cells for organ regeneration	Nuria Monserrat, Spain
10:50 - 11:20	Coffee Break	
11:20 - 12:50	Session 7 SUS ECTORS, BSC and VCA: VCA quovadis? (as part of ESOT 2019) <ul style="list-style-type: none">11:20 - 11:50 Advances in organ preservation and machine perfusion: potential impact on VCA11:50 - 12:20 Thinking outside the box: Combining VCA and regenerative medicine?12:20 - 12:50 Cell-based immunoregulation and tolerance induction: are we getting any closer?	TBA Annemarie Weissenbacher, Austria Robert Rieben, Switzerland Fadi Isa, United Kingdom

ABSTRACT PRESENTATIONS

MINI ORAL PRESENTATIONS | 14.09 | 16:00 - 17:00

[MO#01]	EFFICIENT GENERATION OF HUMAN PLURIPOTENT STEM CELL-DERIVED KIDNEY CONSTRUCTS BY 3D BIOPRINTING OF CELL-LADEN KIDNEY SPECIFIC BIOINKS	Elena Garreta, Spain
[MO#02]	EFFECT OF TIMING AND COMPLEMENT RECEPTOR ANTAGONISM ON INTRAGRAFT RECRUITMENT AND PRO-TOLEROGENIC EFFECTS OF MESENCHYMAL STROMAL CELLS IN MURINE KIDNEY TRANSPLANTATION	Sonia Fiori, Italy
[MO#03]	TOTAL RNA, RECEIVED FROM BMCS INDUCES PROCESSES OF REPARATIVE REGENERATION IN THE DAMAGED LIVER	Murat Shagidulin, Russia
[MO#04]	CHARACTERIZATION OF THE IMMUNOGENICITY OF HUMAN IPSC-DERIVED KIDNEY ORGANIDS	Anusha Shankar, The Netherlands
[MO#05]	IMPROVED NORMOTHERMIC MACHINE PERFUSION AFTER SHORT OXYGENATED HYPOTHERMIC MACHINE PERFUSION OF ISCHEMIC INJURED KIDNEYS	Stina Lignell, Denmark
[MO#06]	DUAL TREATMENT OF CD40 SILENCING OR MESENCHYMAL STEM CELLS INFUSION WITH SUB-THERAPEUTIC DOSES OF CYCLOSPORINE EFFECTIVELY PREVENTS ACUTE REJECTION IN AN ALLOGENIC MODEL OF RENAL TRANSPLANTATION	Jordi Guiteras, Spain
[MO#07]	EX VIVO MODELLING OF PROGRAMMED CELL DEATH USING HUMAN LIVER-DERIVED ORGANIDS	Monique M.A. Verstegen, The Netherlands
[MO#08]	MESENCHYMAL STROMAL CELLS ARE RETAINED IN THE RENAL CORTEX INDEPENDENTLY OF THEIR METABOLIC STATE AFTER RENAL INTRA-ARTERIAL INFUSION	Jesus Maria Sierra Parraga, The Netherlands
[MO#09]	DEVELOPMENT OF BIFUNCTIONAL THREE-DIMENSIONAL CYSTS FROM CHEMICALLY-INDUCED LIVER PROGENITORS	Susumu Eguchi, Japan
[MO#11]	NEONATAL KIDNEY STEM/PROGENITOR CELLS FOR IMMUNOMODULATORY AND REGENERATIVE THERAPY IN KIDNEY TRANSPLANTATION	Fanny Oliveira Arcolino, Belgium
[MO#12]	SUBSTRATE STIFFNESS IMPACTS THE DIFFERENTIATION OF KIDNEY ORGANIDS DERIVED FROM HUMAN PLURIPOTENT STEM CELLS	Elena Garreta, Spain

ABSTRACT PRESENTATIONS

FULL ORAL PRESENTATIONS | 15.09 | 09:00 - 10:00

[OP#01]	THE RENIN-ANGIOTENSIN SYSTEM IS PRESENT AND FUNCTIONAL IN HUMAN IPSC-DERIVED KIDNEY ORGANOIDS	Anusha Shankar, The Netherlands
[OP#02]	EFFECT OF RENAL PROGENITOR CELLS AND INDUCED PLURIPOTENT STEM CELLS ON A CHRONIC KIDNEY DISEASE MODEL IN RATS	Mario Abbud-Filho, Brazil
[OP#03]	DISEASE MODELLING OF NORMAL AND CIRRHOTIC LIVER ORGANOIDS	Foad Rouhani, UK
[OP#04]	BILE DUCT RECONSTRUCTION USING SCAFFOLD-FREE TUBULAR CONSTRUCTS OF ALLOGENEIC PIG FIBROBLAST	Takashi Hamada, Japan
[OP#05]	EX-VIVO NORMOTHERMIC PERFUSION OF PORCINE KIDNEYS: WHICH PERFUSION SOLUTION IS MOST SUITABLE FOR PROLONGED PERFUSION?	Tim Hamelink, The Netherlands
[OP#06]	EFFECTS OF NORMOTHERMIC MACHINE PERFUSION CONDITIONS ON MESENCHYMAL STROMAL CELLS	Jesus Maria Sierra Parraga, The Netherlands
[OP#07]	INTRAARTERIAL INFUSION OF THE MESENCHYMAL STEM CELLS FOR THE INDUCTION OF IMMUNOSUPPRESSION IN PATIENTS AFTER KIDNEY TRANSPLANTATION: THE RESULTS OF PILOT STUDY	Sergey Korotkov, Belarus
[OP#08]	MEMBRANE PARTICLES FROM MESENCHYMAL STROMAL CELLS ENHANCE THE ENDOTHELIAL REGENERATION UNDER INFLAMMATORY CONDITIONS	Ana Merino, The Netherlands

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