

www.imirt.fr



IMIRT 2022

International Meeting on Ischemia Reperfusion Injury in Transplantation


April 21-22, 2022

Poitiers

Faculté de Médecine et de Pharmacie - UFR
6 rue de la Milétrie
86073 Poitiers

PROGRAMME

THURSDAY, APRIL 21

08:15	Opening remarks Raphaël Thuillier (Poitiers, France)
08:30	Session 1 - Xenotransplantation & interspecies organogenesis Chair: Cyril Moers
	Keynote Lecture
08:30	New challenges and hurdles in xenotransplantation Léo Bühler (Geneva, Switzerland)
09:00	Discussion
09:15	Session 2 - Ex vivo organ modification Chairs: Henri Leuvenink, Clara Steichen
	Keynote Lectures
09:15	Genetic modification during organ preservation Rainer Blasczyk (Hannover, Germany), Constanca Figueiredo (Hannover, Germany)
	 webex
09:45	Normothermic and hypothermic perfusion of kidneys and subsequent effects on their tissue degradome/urine proteome Benedikt M. Kessler (Oxford, UK)
10:15	Discussion
10:30	Break
11:00	Abstracts
11:00	01 - Targeted delivery of galunisertib attenuates fibrogenesis in an integrated ex vivo renal transplant and fibrosis model Leonie Van Leeuwen (Groningen, The Netherlands)
11:15	02 - Development and evaluation of ex vivo porcine kidney graft conditioning using cell therapy based on porcine urine progenitor cell-derived exosomes Perrine Burdeyron (Poitiers, France)
11:30	03 - Cryoperfusion: The next step in organ preservation? Tim Swaab (Groningen, The Netherlands)

THURSDAY, APRIL 21

- 11:45 04 - Normothermic machine perfusion reduces the early inflammatory response in warm ischemic injured porcine livers
Joris Blondeel (Leuven, Belgium)
- 12:00 05 - Liver transplantation of partial grafts after ex-vivo splitting during Hypothermic Oxygenated PERfusion: The HOPE-Split Pilot Study
Guillaume Rossignol (Lyon, France)
- 12:15 06 - Investigation into the effect of alpha-1 antitrypsin delivered via different preservation methods on ischemia-reperfusion injury in pig kidneys
Azita Mellati (Oxford, UK)
- 12:30 07 - Brief bubble, and subsequent intermittent surface oxygenation is a simple and effective alternative for membrane oxygenation to maintain aerobic metabolism during hypothermic machine perfusion in kidneys
Tom Darius (Brussels, Belgium)
- 12:45 08 - The effect of IL-6 inhibition on inflammatory gene expression in human kidney sections
Tegwen Elliott (Cambridge, UK)
- 13:00 09 - Protection of normal metabolic function of healthy pig livers following prolonged normothermic ex-situ perfusion
Jordi Vengohechea Llorens (Barcelona, Spain) 
- 13:15 Lunch
- 14:15 **Session 3 - Predicting outcome**
Chair: Raphaël Thuillier
- Keynote Lecture**
- 14:15 How good are we at anticipating outcome?
What are the remaining challenges?
Maarten Naesens (Leuven, Belgium)
- 14:45 **Discussion**
- 15:00 **Abstract**
- 15:00 010 - Deceased donor kidney protein profiles reveal donor type specific signatures associate to posttransplant function
Rebecca Vaughan (Oxford, UK)

THURSDAY, APRIL 21

15:15 **Session 4 - Where are the fourth-generation preservation solutions? +/- additives, such as metabolic compounds?**

Chairs: Sébastien Giraud, Leonie Venema

Keynote Lecture

15:15 Current use and perspectives in organ preservation solution
Eric Savier (Paris, France)

15:45 **Discussion**

16:00 Break & **Poster**

16:00 P1 - Evaluation of new solution for cardiac graft preservation on cellular model
René Ferrera (Lyon, France)

16:30 **Session 5 - The difficult jump from bench to bedside**

Chair: Raphaël Thuillier

Keynote Lecture

16:30 Leaving the lab to enter the business sphere: challenges & realities
Mustapha Belgsir (BioCydex, Poitiers, France),
Frédéric Marin (OP2 Drugs, Pessac, France)

17:00 **Discussion**

17:15 **Abstract**

17:15 O11 - A new organ preservation solution for cold storage and oxygenated organ preservation; First results from a clinically relevant porcine kidney transplantation model
Lisa Ernst (Aachen, Germany)

17:30 End of the day

FRIDAY, APRIL 22

08:30 **Session 6 - Oxydative stress**

Chairs: Thierry Hauet, Nina Jordan

Keynote Lectures

08:30 Biological evaluation of oxidative stress: lessons from hematological malignancies

Oliver Hérault (Tours, France)

09:00 Mitochondrial reprogramming to avoid oxydative stress

Didier Pisani (Nice, France)

09:30 **Discussion**

09:45 **Abstracts**

09:45 012 - H₂S-enriched flush-out in DBD and non-DBD porcine kidneys

Hanno Maassen (Groningen, The Netherlands)

10:00 013 - The trans-renal dynamics of free sylfhydryl groups during living donor kidney transplantation

Nora Spraakman (Groningen, The Netherlands)

10:15 **Break**

10:45 014 - Which oxygen concentration is best for renal normothermic machine perfusion: hyperoxia or normoxia?

Veerle Lantiga (Groningen, The Netherlands)

11:00 015 - Use of different flush out solutions to reduce mitochondrial damage and improve kidney function of DCD porcine kidneys

Tobias Huijink (Groningen, The Netherlands)

11:15 016 - Cytoskeletal protein degradation in brain death donor kidneys associates with adverse posttransplant outcomes

Rebecca Vaughan (Oxford, UK)

11:30 **Session 7 - Hypoxia**

Chair: Gertrude Nieuwenhuijs-Moeke

Keynote Lecture

11:30 How cells sense and adapt to oxygen availability

Jacques Pouyssegur (Nice, France)

 webex

12:00 **Discussion**

FRIDAY, APRIL 22

12:15

Abstracts

12:15

O17 - Feasibility study of normothermic perfusion as an innovative method to assess pancreatic transplants in a non-human and human preclinical model

Benoît Mesnard (Nantes, France)

12:30

O18 - Impact of Hypothermic Oxygenated PERfusion (HOPE) during hypothermic preservation and normothermic reperfusion in a preclinical porcine model of pancreatic transplantation

Benoît Mesnard (Nantes, France)

12:45

O19 - Impact of Hypothermic Oxygenated PERfusion (HOPE) on endothelial cell biology in a preclinical porcine model of pancreatic transplantation

Benoît Mesnard (Nantes, France)

13:00

Lunch

14:00

Session 8 - Metabolism

Chairs: Marine Coué, Luc Pellerin

Keynote Lecture

14:00

Mitochondria in cardiac ischemia-reperfusion injury

Mike Murphy (Cambridge, UK)

14:30

Discussion

14:45

Abstracts

14:45

O20 - A predictive model for translating metabolomic approaches into clinical routine

Maryne Lepoittevin (Poitiers, France)

15:00

O21 - Validation of the preclinical models for renal ischemia reperfusion injury. A systematic review

Lente Lerink (Leiden, The Netherlands - Oxford, UK))

15:15

O22 - The effect of different nutrient compositions on mitochondrial function during normothermic reperfusion of precision-cut kidney slices

Annick Van Furth (Groningen, The Netherlands)

FRIDAY, APRIL 22

- 15:30 **023** - Kidney proteome profiles at time of retrieval discriminate between short and long duration of delayed graft function in donation after circulatory death donors
Letizia Lo Faro (Oxford, UK)
- 15:45 **024** - Characterization of the renal ischemic preconditioning induced by kidney-centered irradiation in mice
Badr Khabouz (Liège, Belgium)
- 16:00 Closing remarks
Raphaël Thuillier (Poitiers, France)
- 16:15 End of the meeting

Organizing committee

Raphaël Thuillier, Clara Steichen

Denis Angoulvant, Benoit Barrou, Sarah Drouin, Michel Eugene, Constantino Fondevila, Pierre Galichon, Sébastien Giraud, Thierry Hauet, Alexandre Hertig, Sarah Hosgood, Thomas Kerforne, Kaatje Lenaerts, Henri Leuvenink, Diethard Monbaliu, Gertrude J. Nieuwenhuijs-Moeke, Gabriel Oniscu, Luc Pellerin, David Talbot, Olivier Thauinat, Antoine Thierry, Stefan Tullius

Contact information

VBCE - IMIRT

43 rue de l'Abbé Groult - 75015 Paris - France

Phone : +33 (0)1 45 33 60 46 • E-mail : c.deplagne@vbce.fr

www.imirt.fr



Congress location

Faculté de Médecine et de Pharmacie - UFR
6 rue de la Milétrie
86073 Poitiers Cedex 9
Phone: +33 (0)5 49 45 43 15

Access to the Faculty

By car

Highway A10 - Exit n° 28 with direct access to the Futuroscope
N10 (national road) - Exit Futuroscope

By train

Poitiers is 1h20 from Paris by TGV

Railway station : **Poitiers** (15 mn)

- 80 mn from Paris Montparnasse (departure almost every hours to Poitiers)
- departure from Roissy Charles de Gaulle Aéroport (Gare TGV) : 6 a day
- Connections Bruxelles/Lille (Lille-Poitiers : 3h16) — Connections Bordeaux — Biarritz and Toulouse.

By plane

Poitiers Biard Airport at 20 mn

- France : daily flights to Lyon and correspondences via Marseille, Nice, Strasbourg, Mulhouse & Montpellier
- Europe : direct flights to LONDRES and correspondences via Lyon with Barcelona, Bologna, Düsseldorf, Frankfurt, Madrid, Milan, Munich, Roma, Stuttgart, Venise & Zurich.

Acknowledgements

The Organizing Committee wishes to extend its thanks and appreciation to the Académie Nationale de Médecine for his patronage:



And to the following sponsors for their contribution:

