



# 1<sup>st</sup> International Meeting on Ischemia Reperfusion Injury in Transplantation

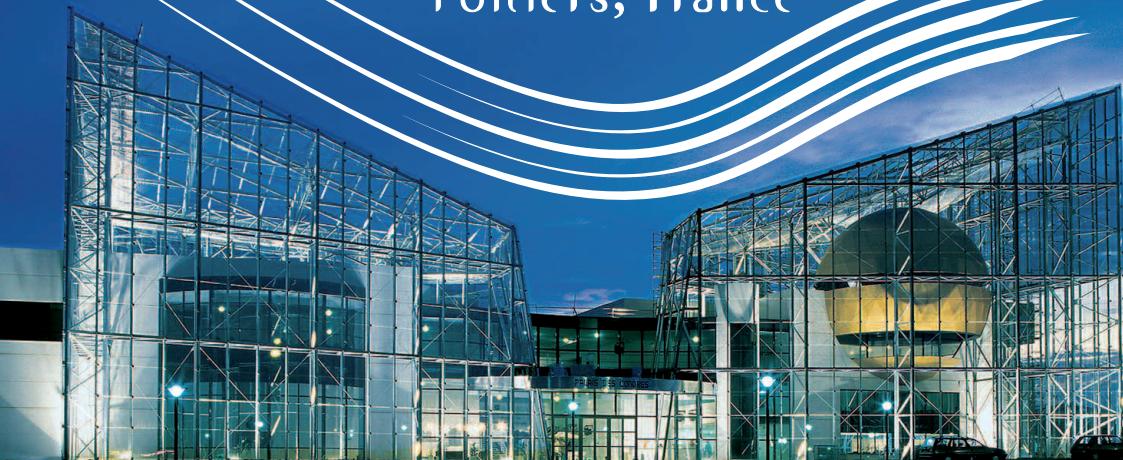
May 3-4  
2012

[www.imirt.fr](http://www.imirt.fr)

Programme

A graphic element consisting of four overlapping circles in teal, blue, pink, and orange. The word 'Programme' is written in white capital letters inside the orange circle.

Futuroscope,  
Poitiers, France



Changing tomorrow\*



\*changer demain

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# 1<sup>st</sup> International Meeting on Ischemia Reperfusion Injury in Transplantation

May, 3-4, 2012 - Futuroscope, Poitiers, France



Société  
Francophone de  
Transplantation



## Scientific committee

Lionel Badet, Benoît Barrou, Michel Eugène, René Ferrera, Constantino Fondevila, Peter Friend, Thierry Hauet, Henri Leuvenink, Diethard Monbaliu, Jacques Pirenne, Rutger Ploeg, Stefan G. Tullius, Dirk Van Raemdonck

## Organization committee

Lionel Badet, Benoît Barrou, Bertrand Doré, Michel Eugène, Thierry Hauet, Christophe Jayle, Gérard Mauco, Michel Pinsard, René Robert, Guy Touchard

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## Acknowledgements

The Organizing Committee wishes to extend its thanks and appreciation to the following sponsors for their contribution :

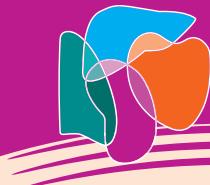
**Région Poitou-Charentes**

and also

**Astellas**

**Dr. Franz Köbler Chemie**  
**Novartis**

**Organ Recovery Systems**  
**Roche**



# Scientific Programme

## Thursday, May 3

### 9:00 Welcome address

#### **1<sup>st</sup> session: New aspects of cell metabolism during IRI**

Chairs: Henri Leuvenink (Groningen, The Netherlands), Stefan G. Tullius (Boston, USA)

**Keynote lecture:** *New aspects of cell metabolism during IRI: old actors and up-coming stars*

Invited speaker: Thierry Hauet (Poitiers, France)

**O1 - An angiogenic response activated by the unfolded protein response during renal ischemia independently of HIF-1alpha**

N. Bouvier, S. Fougeray, E. Thervet, N. Pallet (Paris, France)

**O2 - Upregulation of HIF-1 alpha attenuates hypoxia/reoxygenation injury through HIF-1 alpha -iNOS-PGC-1alpha pathway**

Y. Guo, L. Feng, T. Yang, J. Shan, G. Sun, S. Li, Y. Li (Chengdu, China)

**O3 - PKC alpha/beta inhibition attenuates hypoxia induced interstitial renal fibrosis and inflammation via reduced activation of TGF-beta signaling**

X. Lu, S. Rong, N. Shushakova, J. Menne, T. Kirsch, H. Haller, F. Güler (Hannover, Germany)

**O4 - Cyclosporin A and Metformin inhibit ischemia-reperfusion injury on INS-1 cells through permeability transition pore inhibition**

S. Lablanche, C. Cottet, F. Lamarche, P-Y. Benhamou, E. Fontaine (Grenoble, France)

**O5 - Transition from reversible to irreversible injury following prolonged myocardial hypothermic preservation. Implication of mitochondrial permeability transition pore (MPTP) opening**

F. Collet, L. Sebbag, J-F. Obadia, M. Ovize, R. Ferrera (Lyon, France)

**O6 - Hypercholesterolemia promotes intrarenal remodeling in a porcine auto-transplanted kidney model**

F. Favreau, N. Chatauret, S. Giraud, W. Hebrard, S. Joffrion, J. Cau, T. Hauet (Poitiers, France)

### 10:30 Break

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**11:00 2<sup>nd</sup> session: Immunological consequences of IRI**

Chairs: Benoit Barrou (Paris, France), Peter Friend (Oxford, UK)

**Keynote lecture:** *Immunological consequences of ischemia/reperfusion injury*  
Invited speaker: Stefan G.Tullius (Boston, USA)

**O7 - Involvement of IgM natural antibodies in renal ischaemia reperfusion injury: a potential new therapeutic target?**

D. Ferenbach, D. Kluth, J. Hughes (Edinburgh, UK)

**O8 - IL-17 producing unconventional T cells contribute to hepatic ischemia reperfusion injury**

E. Eggenhofer, M-H. Dahlke, M. Melter, M. Scherer, H-J. Schlitt, E. K Geissler (Regensburg, Germany)

**O9 - IL-33 exacerbates liver ischemia-reperfusion injury**

Z. Ping, X. Li, Y. Lin, D. Lihua, Y. Yan, F. Min, G. Feili, Y. Jun (Yichang City, China)

**O10 - Feasibility of continuous ex vivo kidney perfusion with mesenchymal stem cells to prevent ischemia-reperfusion injury in mice**

P. Renner, E. Eggenhofer, F. Popp, E. Geissler, H-J. Schlitt, M-H. Dahlke (Regensburg, Germany)

**O11 - Cultured human MSCs secretome contains anti inflammatory cytokines and reduces in vitro ischemia reperfusion lesions and T lymphocyte proliferation after allogeneic stimulation**

D. Angoulvant, C. Lequeux, L. Denis, M. Abrial, F. Ivanes, V. Dubois, T. Bejan-Angoulvant, R. Ferrera, J. Bienvenu, M. Ovize, L. Sebbag (Tours, France)

**O12 - Involvement of HMGB1 alarmin and IL33/ST2 pathway after ischemia reperfusion in human renal transplantation**

A. Thierry, S. Giraud, A. Robin, V. Ameteau, F. Bridoux, G. Touchard, A. Herbelin, T. Hauet, J-M. Gombert (Poitiers, France)

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**12:30 Symposium Organ Recovery Systems****Functional mechanisms of hypothermic machine perfusion**

Chair: Benoît Barrou (Paris, France)

**12:30 Introduction** - Benoît Barrou (Paris, France)

**12:35 Integration of time-honored principles of hypothermic cellular protection with modern day modalities of organ preservation** - Mike Taylor (South Carolina, USA)

**12:50 Possible mechanisms of machine perfusion** - Stefan G. Tullius (Boston, USA)

**13:05 Renal resistance - What is the value?** - Diethard Monbalju (Leuven, Belgium)

**13:20 Panel Q&A**

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**13:30** **Lunch**

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**14:30** **3<sup>rd</sup> session: New trends for additives to preservation solutions**

Chairs: Thierry Hauet (Poitiers, France), Dirk Van Raemdonck (Leuven, Belgium)

**Keynote lecture:** *New trends for additives to preservation solutions*

Invited speaker: Raphaël Thuillier (Poitiers, France)

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**O13 - Kidney preservation with cardiotrophin-1 prevents ischemia/reperfusion injury and inflammatory response in a syngeneic rat kidney transplant model**

M-B. García-Cenador, J-M. López-Novoa, M-P. de Obanos, J. Ruiz, J-R. Sanz-Giménez-Rico, J-F. López Marcos, F-J. García-Criado (Salamanca, Spain)

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**O14 - Superior lung preservation with a polyethylene glycol based solution in a porcine single lung transplant model**

A. Olland, A. Neyrinck, M. Benahmed, T. Boogmans, A. Stanzi, K. Elbayed, S. Wauters, G. Verleden, I. Namer, D. Van Raemdonck (Leuven, Belgium)

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**O15 - Intraluminal polyethylene glycol stabilizes the tight junctions and improves intestinal preservation in the rat**

M. Oltean, E. Björkman, A. Casselbrand, M. Joshi, M. Olausson (Gothenburg, Sweden)

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**O16 - Impact of preservation solution on grafts and postoperative organ failures following liver transplantation**

H. Brisson, C. Arbelot, C. Vezinet, Q. Lu, D. Eyraud, E. Savier, C. Parizot, J-C. Vaillant, L. Hannoun, G. Gorochov, J-J. Rouby (Paris, France)

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**O17 - Potential benefits of the supplementation of machine perfusion solution with *Arenicola Marina* hemoglobin for the preservation of porcine kidney grafts subjected to warm ischemia**

P-O. Delpech, N. Chatauret, W. Hébrard, S. Joffrion, D. Dutheil, F. Zal, T. Hauet (Poitiers, France)

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**O18 - The novel mitochondria-targeted antioxidant MitoQ ameliorates renal ischaemia reperfusion injury in a murine model**

A. Dare, T. Prime, A. Logan, E. Bolton, J-A. Bradley, K. Saeb-Parsy, M. Murphy (Cambridge, UK)

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**16:00** **Break**

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## **16:30 4<sup>th</sup> session: Machine perfusion: why and how?**

Chairs: Lionel Badet (Lyon, France), Ina Jochmans (Leuven, Belgium)

**Keynote lecture:** *Machine perfusion, current status and future directions*

Invited speaker: Henri Leuvenink (Groningen, The Netherlands)

**O19 - One-year transplantation results of kidneys preserved by machine perfusion - LifePort Kidney Transporter versus Waters RM3 - Prospective study**  
M. Wszola, P. Domagala, P. Diuwe, A. Kwiatkowski, L. Gorski, R. Kieszek, A. Berman, A. Perkowska-Ptasinska, M. Durlik, L. Paczek, A. Chmura (Warsaw, Poland)

**O20 - Coating of the vessel wall with macromolecular heparin during cold machine perfusion**

A. Sedigh, R. Larsson, G. Tuvfeson, T. Lorant (Uppsala, Sweden)

**O21 - Pneumatic control and monitoring for kidney perfusion in a NMR compatible system**

R. Ruttimann, F. Lazeyras, A. Nastasi, L. Buhler, P. Morel, J-B. Buchs (Geneva, Switzerland)

**O22 - The final showdown: preclinical comparison between perfusion machines ORS Lifeport and Waters RM3**

R. Codas, R. Thuillier, P-O. Delpech, B. Barrou, L. Badet, T. Hauet (Poitiers, France)

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## **17:45 Poster session with wine and cheese**

> 18:45

*New aspects of cell metabolism during IRI • Immunological consequences of IRI*  
Chair: Nicolas Chatauret (Poitiers, France)

*New trends for additives to preservation solutions • Machine perfusion: why and how?*

Chair: Frédéric Favreau (Poitiers, France)

*Management of brain dead donors • Donors after cardiocirculatory death*

Chair: Marie Essig (Limoges, France)

*Organ ex vivo repair • Pre/Post Conditioning*

Chair: Sacha Mussot (Paris, France)

**Congress dinner at the Kadelicescope in the Futuroscope Park**

(upon registration)

# Friday, May 4

8:30

## 5<sup>th</sup> session: Management of brain dead donors

Chairs: Constantino Fondevila (Barcelona, Spain), René Robert (Poitiers, France)

**Keynote lecture:** *The success of transplantation begins before donation*

Invited speaker: Rutger Ploeg (Oxford, UK)

**O23 - Secretory leukocyte protease inhibitor decreases renal ischemia reperfusion injury**

D. Guerrieri, N. Ambrosi, H. Romeo, F. Cicora, F. Toniolo, P. Cicora, C. Incardona, E. Chuluyan (Buenos Aires, Argentina)

**O24 - Donor pretreatment with methylprednisolone reduces brain-death induced renal injury before organ retrieval**

P. Ottens, J. Damman, B. Liu, M. Seelen, H. Van Goor, S. Veldhuis, R. Ploeg, H. Leuvenink (Groningen, The Netherlands)

**O25 - Angiopoietin in living and deceased brain dead kidney donors**

W-H. Westendorp, L-G. Koudstaal, J. Damman, J.G. Burgerhof, M-A. Seelen, H. Van Goor, R-J. Ploeg, H-G. Leuvenink (Groningen, The Netherlands)

**O26 - Effect of preconditioning with triiodothyronine on renal ischemia-reperfusion injury**

C. Ferreyra Lanatta, R. Pérez Abud, F. O'Valle, J-M. Osorio, F. Vargas, I. Rodriguez, A. Osuna (Granada, Spain)

**O27 - Effects of anaesthetic preconditioning plus postconditioning with sevoflurane in warm liver ischemia/reperfusion injury in rats**

J. Avancini Rocha Filho, E.R. Ramos Figueira, B. Beck Schimmer, V. Oliveira Andre, M. Felipe de Souza Buto, M. Nakatani, F.J. Gonçalves Prado, M.J. Carvalho Carmona, P-A. Clavien, L.A. Carneiro D'Albuquerque (Sao Paulo, Brazil)

9:40

## 6<sup>th</sup> session: Donors after cardiocirculatory death

Chairs: Diethard Monbaliu (Leuven, Belgium), Rutger Ploeg (Oxford, UK)

### Keynote lectures: Management of uncontrolled DCD

**Kidney** - *How to perfuse the organs of uncontrolled DCDs: is normothermic ECMO worth the complexity?*

Invited speaker: Benoît Barrou (Paris, France)

**Liver** - *Liver transplantation from uncontrolled DCD donors*

Invited speaker: Constantino Fondevila (Barcelona, Spain)

10:15

Break

> 10:45

### Keynote lecture: Management of controlled DCD

*Organ transplantation from controlled DCD donors: donor management, outcome and pitfalls*

Invited speaker: Diethard Monbaliu (Leuven, Belgium)

**O28** - *Randomised controlled trial of the effects of hydrogen sulphide in renal ischaemia reperfusion injury*

J. P. Hunter, S. A. Hosgood, M. Patel, M. L. Nicholson (Leicester, UK)

**O29** - *Non-heart-beating donors: preliminary study on an isolated perfused swine heart harvested after 20 minutes of normothermic ischemia*

A. Piccardo, M. Desrois, E. Zogheib, C. Dalmasso, C. Lan, D. Fourré, M. Bernard, T. Caus (Amiens, France)

**O30** - *Cardiac tolerance to warm, global ischemia is improved with mild hypothermia following ischemic arrest*

M. Stadelmann, M. Dornbierer, D. Clément, B. Gahl, F. Dick, T. Carrel, H. Tevaearai, S. Longnus (Berne, Switzerland)

**O31** - *Outcome after liver transplantation using controlled donation after cardiac death donors: A single-center experience*

N. Meurisse, S. Vanden Bussche, I. Jochmans, V. Heedfeld, J. Francois, B. Desschans, G. Van Helleputte, N. Grossen, D. Claes, J. De Roey, S. Dirix, R. Aerts, W. Laleman, S. Van der merwe, C. Verslype, D. Cassiman, W. Vansteenbergen, F. Nevens, J. Pirenne, D. Monbaliu (Leuven, Belgium)

**O32** - *Kidney graft quality after donation from uncontrolled deceased donors after cardiac arrest*

R. Codas, W. Hanf, V. Meas-Yedid, B. Mac-Gregor, J. Berthiller, A. Hadj-Aissa, L. Badet, E. Morelon (Lyon, France)

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**O33 - Impact of the delayed graft function on kidney graft survival in recipient with graft coming from donation after cardiocirculatory death**  
R.Thuret, C. Billault, F. Thibault, E. Vanglabeke, K. Fehri, S. Bart, N. Arzouk, V. Gueutin, S. Hacini, S. Ourahma, M.O. Bitker, B. Barrou (Paris, France)

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**O34 - New model of kidney donation from uncontrolled donors**  
O. Reznik, A. Scvortcov, A. Reznik, S. Bagnenko (St Petersburg, Russia)

**O35 - Kidney donation after circulatory death has not increased kidney transplant activity in Belgium - A comparative analysis with the Netherlands between 1995 and 2010**

I. Jochmans, D. Monbaliu, A. Rahmel, J. Pirenne (Leuven, Belgium)

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**12:30 Lunch**

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**14:00 7<sup>th</sup> session: Organ ex vivo repair**

Chairs: René Ferrera (Lyon, France), David Talbot (Newcastle, UK)

#### **Keynote lectures**

**Lungs - Ex vivo lung perfusion: clinical applications**

Invited speaker: Dirk Van Raemdonck (Leuven, Belgium)

**Liver - Normothermic perfusion of the liver**

Invited speaker: Peter Friend (Oxford, UK)

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**O36 - Tissue engineering for ex vivo repair of ischemically damaged tubule epithelium**

L. Brasile, P. Glowacki, B. Stubenitsky (New-York, USA)

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**O37 - The first clinical series of normothermic perfusion in marginal donor kidney transplantation**

S. A Hosgood, M. L Nicholson (Leicester, UK)

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**O38 - The biological effects of normothermic kidney perfusion on ischemia reperfusion injury**

S. A Hosgood, T. Richards, M. Patel, M. L Nicholson (Leicester, UK)

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**O39 - Potential for ex vivo renal repair**

L. Brasile, P. Glowacki, B. Stubenitsky (New-York, USA)

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**15:45 Closing address**

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**16:00 End of the congress**

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# Posters

## New aspects of cell metabolism during IRI

**P1 - MicroRNA-21 up-regulate HIF-1 alpha expression in hepatocytes during ischemia injury by targeting PTEN**

J. Shan, H. Li, G. Sun, W. Wu, S. Li, D. Long, Y. Li, L. Feng (Chengdu, China)

**P2 - Downregulation of miR-20a decreases HIF-1 alpha and accelerates apoptosis in hypoxia**

G. Sun, L. Feng, J. Shan, Y. Guo, T. Yang, S. Li, Y. Li (Chengdu, China)

**P3 - Renal PKC epsilon deficiency attenuates ischemia reperfusion injury via impaired neutrophil infiltration and TNF alpha dependent apoptosis inhibition**

S. Rong, T. Kirsch, N. Shushakova, J. Menne, M. Leitges, H. Haller, F. Güler (Hannover, Germany)

**P4 - Effects of hepatic reperfusion injury on the gene expression of some cytochrome P450 isoforms in rat liver**

H. Ali Arab, J. Jamshidian, G. Nikbakht, F. Sasani, A. Afkhami (Tehran, Iran)

**P5 - OAT1/3 and renal ischemia and reperfusion: evidence for a role of proximal tubular transporter expression on renal outcome.**

R. Schneider, M. Meusel, C. Held, C. Wanner, M. Gekle, C. Sauvant (Halle, Germany)

**P6 - Cannabidiol treatment ameliorates ischemia/reperfusion renal injury in rats**

A. Fouad, A. Al-Mulhim, I. Jresat (Saudi, Arabia)

**P7 - Effect of methylene blue on the hemodynamic instability resulting from liver ischemia and reperfusion in rabbits**

R. Rosique, M. Rosique, I. Rosique, L. Tirapelli, P. Évora (Sao Paulo, Brazil)

**P8 - Best temperature for static liver graft storage is 1°C an experimental study**

C. Charrueau, N. Neveux, J-C. Chaumeil, L. Hannoun, L. Cynober, E. Savier (Paris, France)

**P9 - Atp and other adenine nucleotide precursors measured in kidneys from DCD by 31p NMR spectroscopy, during hypothermic-oxygenated-pulsatile perfusion, to evaluate their viability**

J-B. Buchs, F. Lazeyras, L. Buehler, S. Moll, R. Ruttmann, A. Nastasi, P. Morel (Geneva, Switzerland)

## Immunological consequences of IRI

**P10 - Increased inflammation caused by hyperoxaluria leads to larger renal dysfunction in an experimental model of ischemia and reperfusion**

R. Silva, M. Costa, M. Hiyane, M. Cenedeze, H. Pinheiro, N. Camara, A. Pacheco-Silva (Sao Paulo, Brazil)

**P11 - Anti-rat anti-thymocyte globulin attenuates renal ischaemia-reperfusion injury in rats**

P. Nesargikar, G. Chavez, B. Spiller, R. Chavez (Cardiff, UK)

**P12 - Comparison of long term effect of thymoglobulin treatment in patients with high risk of delayed graft function**

L. Requião-Moura, E. Ferraz, A. Cristina Matos, E. Tonato, M. Durão, N. Camara, A. Pacheco-Silva (Sao Paulo, Brazil)

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## Additives to preservations solutions

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**P13 - Comparative study between Scot-15® and Perfadex® as lung preservation solutions**  
A. Olland, C. Meers, M. Benahmed, K. Elbayed, S. Wauters, E. Verbeken, G. Verleden, I. Namer, D. Van Raemdonck (Leuven, Belgium)

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**P14 - Naked Caspase-3 siRNA is effective in cold preservation, but not in auto-transplantation of porcine kidneys**

C. Yang, Y. Jia, T. Zhao, Y. Xue, Z. Zhao, J. Zhang, J. Wang, X. Wang, Y. Qiu, M. Lin, D. Zhu, G. Qi, Y. Qiu, Q. Tang, R. Rong, M. Xu, S. Ni, M. Nicholson, T. Zhu, B. Yang (Leicester, UK)

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**P15 - Organ preservation revisited: anticoagulation rescues borderline kidney grafts**

S. Tillet, S. Giraud, R. Thuillier, W. Hebrard, M. Petitou, T. Hauet (Poitiers, France)

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**P16 - Effect of Cardiotrophin-1 on the tissue injury associate to cold ischemia and preservation of the heart and lung**

L. Yaremi Quirós, R. Núñez Lozano, P. D Sánchez González, M.B. García Cenador, M.P. Pérez de Obanos, J. Ruiz, F.J. García Criado, J.M. López Novoa (Salamanca, Spain)

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**P17 - Preliminary study of amniotic fluid stems cell therapy in kidney transplantation**

E. Baulier, F. Favreau, D. Bon, S. Giraud, S. Joffrion, A. Le Corf, M-L. Bonnet, W. Hebrard, A. Turhan, T. Hauet (Poitiers, France)

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**P18 - A pilot, randomised, double blind, placebo-controlled, parallel groups, clinical trial to investigate the efficacy and safety of cardiotrophin-1 (CT-1) in kidney transplantation**

J. Ruiz, M.M. Municio, O. Isidoro (Madrid, Spain)

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## Machine perfusion

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**P19 - Analysis of preservation solution (KPS and UW) with high resolution nuclear magnetic resonance spectroscopy during cold preservation: comparison of metabolite content during cold ischemia with machine perfusion and static storage.**

D. Bon, P-O. Delpech, T. Khalifeh, N. Boieldieu, W. Hébrard, F. Seguin, T. Hauet (Poitiers, France)

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**P20 - Hypothermic machine perfusion of human liver grafts: comparison of single VS dual vessels perfusion**

A. Jomaa, K. Gurusamy, P. Siriwardana, A. Winstanley, I. Claworth, H. Parkes, P. De Muylde, B. Fuller, B. Davidson (London, UK)

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## Brain dead donors

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**P21 - MnTlMPyP, a selective superoxide dismutase mimetic, reduces oxidative stress in brain dead donors**

D. Hoeksma, L. Van Dullemen, P. Ottens, S. Veldhuis, R. Ploeg, H. Leuvenink (Groningen, The Netherlands)

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**P22 - Role of biochemical- and histological-based scores for the prediction of graft failure after liver transplantation**

G.B. Levi Sandri, Q. Lai, F. Melandro, N. Gugliemo, A. Molinaro, S. Ginanni Corradini, M. Rossi (Roma, Italy)

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## **Donors after cardiocirculatory death**

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**P23 - Early Urinary Biomarkers of warm and cold ischaemic injury in an experimental kidney model**

S. A Hosgood, J. P Hunter, M. L Nicholson (Leicester, UK)

**P24 - Evaluation of cardiac grafts from non-heart-beating donors : early reperfusion hemodynamic parameters predict contractile recovery in isolated rat hearts**

M. Dornbierer, M. Stadelmann, J. Sourdon, B. Gahl, S. Cook, T. Carrel, H. Tevaearai, S. Longnus (Berne, Switzerland)

**P25 - Dual kidney transplantation from uncontrolled deceased donors after cardiac arrest (uDDCA)**

R. Codas, W. Hanf, B. Mac Gregor, V. Meas Yedid, A. Hadj Aissa, J. Berthiller, G. Perrat, F. Buron, F. Mraigh, C. Chauvet, P. Petruzzo, E. Morelon, L. Badet (Lyon, France)

**P26 - Prolonged cold ischaemia potentiates the mitochondrial damage that occurs during warm ischaemia in rat kidneys**

A. Dare, T. Prime, K. Saeb-Parsy, M. Murphy (Cambridge, UK)

**P27 - Hemodynamic study of the portal venous system in a model of warm liver ischemia/reperfusion injury in rats**

M.F. de Souza Buto, E.R. Ramos Figueira, J. Avancini Rocha Filho, M. Nakatani, E. Ryoiti Tatebe, V. Oliveira Andre, A. Rodrigues de Carvalho Martins, R. Jureidini, M.J. Carvalho Carmona, T. Bacchella, E. Chaib, I. Cecconello, L.A. Carneiro D'Albuquerque (Sao Paulo, Brazil)

**P28 - Metabolic changes in a model of warm liver ischemia/reperfusion injury in rats**

E. Ryoiti Tatebe, E.R. Ramos Figueira, J. Avancini Rocha Filho, V. Oliveira Andre, M. Nakatani, M.F. de Souza Buto, R. Jureidini, W. Andraus, T. Bacchella, E. Chaib, I. Cecconello, L.A. Carneiro D'Albuquerque (Sao Paulo, Brazil)

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## **Organ ex vivo repair**

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**P29 - Biomarkers assessing warm ischaemic injury using an isolated porcine kidney haemoreperfusion model**

B. Yang, S. Hosgood, Z. Da, S. Harper, H. Waller, M. Kay, P. Furness, M. Nicholson (Leicester, UK)

**P30 - BacMam: a novel gene delivery vector for ischaemia**

E. Locanto, R. B. Hitchman, L. A. King (Oxford, UK)

**P31 - Establishing a liver ex-vivo normothermic perfusion model: lessons learned**

A. Nassar, G. D'Amico, P. Grady, M. Otto, K. Dympna, X. Zhu, J. Fung, C. Miller, C. Quintini (Cleveland, USA)

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## **Pre/Post conditioning**

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**P32 - Effects of anaesthetic preconditioning with sevoflurane in warm liver ischemia/reperfusion injury in rats**

E.R. Ramos Figueira, J. Avancini Rocha Filho, B. Beck Schimmer, M. Nakatani, E. Ryoiti Tatebe, V. Oliveira Andre, F.J. Gonçalves Prado, M.J. Carvalho Carmona, P-A. Clavien, L. Augusto Carneiro D'Albuquerque (Sao Paulo, Brazil)

**P33 - Ozone postconditioning in renal ischaemia-reperfusion model. Functional and morphological evidences**

A. Fernández Iglesias, L. González Núñez, S. Rodriguez Salgueiro, J.L. Calunga Fernández, E. Santos Febles (La Habana, Cuba)

**P34 - Intermittent selective clamping enhances liver tolerance to ischemia/reperfusion: a powerful protective modality in the field of living-related liver transplantation**

L. Benmosbah, A. Corlu, H. Duval, S. Grandadam, C. Ribault, K. Boudjemaa, F. Morel, P. Compagnon (Rennes, France)

**P35 - The early protective effect of ischemia preconditioning and glutamine pretreatment in renal ischemia-reperfusion injury of rat**

I.Sung Moon, J. Kye Hwang, J. Il Kim (Seoul, Republic of Korea)

## Exhibitors' list

**ASTELLAS PHARMA**

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[www.genzyme.com](http://www.genzyme.com)

**KEOCYT**

1

29, rue Chauvelot  
92240 Malakoff  
France  
Phone: +33 (0)1 42 31 07 10  
Fax: +33 (0)1 42 31 23 79  
[www.keocyt.com](http://www.keocyt.com)

**MACOPHARMA**

5

200, chaussée Fernand Forest  
59200 Tourcoing  
France  
Phone: +33 (0)3 20 11 84 30  
Fax: +33 (0)3 20 11 84 86  
[www.macopharma.fr](http://www.macopharma.fr)

**MAQUET**

10

Parc de Limère  
Avenue de la Pomme de Pin  
CS 10008 Ardon  
45074 Orléans cedex 2 - France  
Phone: +33 2 38 25 89 31  
Mobile: +33 6 83 43 46 42  
[www.maquet-sa.fr](http://www.maquet-sa.fr)

**NOVARTIS PHARMA**

2

2-4, rue Lionel Terray - BP 308  
92506 Rueil Malmaison Cedex  
France  
Phone: +33 (0)1 55 47 60 00  
Fax: +33 (0)1 55 47 60 50  
[www.novartis.fr](http://www.novartis.fr)

**ORGAN ASSIST**

8

LJ. Zielstraweg 1  
9713 GX Groningen  
The Netherlands  
Phone: +31 (0)50 313 1905  
Fax: +31 (0)6 2365 7217  
[www.organ-assist.nl](http://www.organ-assist.nl)

**ORGAN RECOVERY SYSTEMS**

6

DaVincilaan 2 Box 6  
1935 Zaventem - Belgium  
Phone: +32 (0)2 715 00 00  
Fax: +32 (0)2 715 00 09  
[www.organ-recovery.com](http://www.organ-recovery.com)

**ROCHE**

4

30, cours de l'Ile Seguin  
92650 Boulogne-Billancourt Cedex  
France  
Phone: +33 (0)1 47 61 40 00  
Fax: +33 (0)1 47 61 77 14  
[www.roche.fr](http://www.roche.fr)

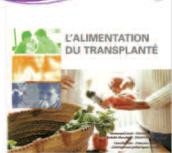
# Roche, partenaire de votre quotidien en transplantation



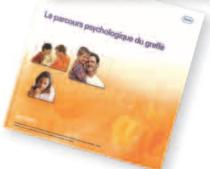
26 Mémos disponibles



Les collections Roche  
de Guides et de Mémos.

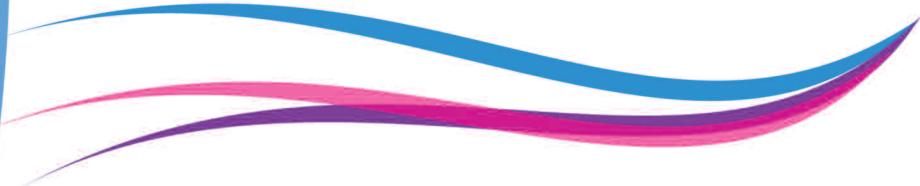


Bandes  
dessinées



## Roche, un engagement permanent

Le soutien de Roche aux différentes associations de patients s'inscrit dans le temps.



Roche

30, cours de l'Ile Seguin  
92650 Boulogne-Billancourt cedex  
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# Un engagement sur la vie

Pour vous, pour vos patients

Depuis plus d'un quart de siècle, les capacités d'innovation de Novartis en transplantation se traduisent par la mise à disposition d'une gamme thérapeutique adaptée permettant d'optimiser la prise en charge des patients greffés du rein, du foie, du cœur et du poumon.

Nos équipes de recherche n'ont cesse de découvrir des traitements innovants permettant de prolonger la survie des greffons, d'améliorer la tolérance des immunosuppresseurs et de contribuer à une meilleure qualité de vie des patients transplantés.

**Vous pourrez toujours compter sur notre présence active à vos côtés.**