



Research evaluation

FINAL RESUME ON THE RESEARCH UNIT  
IRMETIST - Ischemia Reperfusion, Metabolism and Sterile  
Inflammation in Transplantation

UNDER THE SUPERVISION OF THE  
FOLLOWING INSTITUTIONS AND RESEARCH  
BODIES:

Université de Poitiers  
Institut national de la santé et de la recherche  
médicale - INSERM

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**EVALUATION CAMPAIGN 2020-2021**  
GROUP B

Report published on October, 18 2021

High Council for evaluation of research and higher education



In the name of Hcéres<sup>1</sup>:

Mr Thierry Coulhon, President

In the name of the experts committee<sup>2</sup>:

Mr Luc Hittinger, Chairman of the committee

Under the decree No.2014-1365 dated 14 November 2014,

<sup>1</sup> The president of Hcéres "countersigns the evaluation reports set up by the experts committees and signed by their chairman." (Article 8, paragraph 5);

<sup>2</sup> The evaluation reports "are signed by the chairman of the experts committee". (Article 11, paragraph 2).

Tables in this document were filled with certified data submitted by the supervising body on behalf of the unit.

## UNIT PRESENTATION

**Unit name:**

Ischemia Reperfusion, Metabolism and Sterile Inflammation in Transplantation

**Unit acronym:**

IRMETIST

**Current label and N°:**

UMR\_S 1082

**ID RNSR:**

201220164V

**Application type:**

Fusion, scission, restructuring

**Head of the unit (2020-2021):**

Mr Thierry Hauet

**Project leader (2021-2025):**

Mr Luc Pellerin

**Number of teams and/or themes:**

1

## EXPERTS COMMITTEE MEMBERS

**Chair:**

Mr Luc Hittinger, Université Paris-Est Val de Marne, Créteil

**Experts:**

Ms Danielle Bailbé, Université Paris-Diderot (supporting personnel)

Mr José Cohen, Université Paris-Est Val de Marne, Créteil (representative of CSS INSERM)

Mr Jean-Paul Cristol, CHU de Montpellier

Mr Thomas-P Lecompte, Geneva University, Switzerland

Mr Nicolas Pallet, Université de Paris (representative of CNU)

Ms Florence Pinet, INSERM, Lille

## HCÉRES REPRESENTATIVE

Mr Claude Delcayre

## REPRESENTATIVES OF SUPERVISING INSTITUTIONS AND BODIES

Mr Raymond Bazin, ITMO Physiologie, Métabolisme, Nutrition

Mr Frédéric Becq, École Doctorale de Poitiers

Mr Christian Boitard, ITMO Physiologie, Métabolisme, Nutrition

Mme Anne Costa, CHU de Poitiers

Ms Karine Estieu-Gionnet, INSERM, Bordeaux

Mr Yves Gervais, Université de Poitiers

Mr Marc Paccalin, Faculté de médecine de Poitiers

## INTRODUCTION

### HISTORY AND GEOGRAPHICAL LOCATION OF THE UNIT

The U1082 IRTOMIT unit was created in January 2012 and renewed in 2018 within the CSS8-Health Technologies, Therapeutics, and Biotechnologies and belongs to the Technologies for Health thematic institute (ITMO). This unit is located on the campus of the University Hospital of Poitiers, 2 rue de la Milétrie CS90577, 86021 Poitiers Cedex. For the next mandate the unit will change its name to IRMETIST 'Ischemia Reperfusion, Metabolism and Sterile Inflammation in Transplantation.

### RESEARCH ECOSYSTEM

The unit has been building interactions with the industrial and economic environment for many years. There has been substantial valorisation and transfer of its results at the territorial, national and international levels. The unit owns fourteen patent's families in relation with organ protection and evaluation. The unit is involved in several academic and industrial networks (Consortium for Organ Preservation in Europe, FP7 support; FHU support). Local support for the activities of the unit is evidenced by the participation of its members in several university and School of Medicine councils. The involvement in the coordination of the FHU support provides a central role in the strategic organizations. Involvement of the unit in the RENNFORCES network (Medical-Surgical Training and Development Network for Students and Health Professionals) of the University of Poitiers combining teaching and research tools, highlights its place in local technical and medical trainings. IRMETIST will benefit from the constant local and regional supports, most notably through the "Homme réparé", Nouvelle Aquitaine initiative. Nowadays, members of the unit are split in two different locations, they are finalizing an important project of a life sciences campus regrouping both colleges of life science and medicine/pharmacy. This project includes a new building which will regroup the IRMETIST members.

### HCÉRES NOMENCLATURE AND THEMATICS OF THE UNIT

SVE2, SVE5.

Organ transplantation, ischemia-reperfusion, preclinical models, cell signaling, inflammation, innate T cells.

IRTOMIT is organized in two topics: 1) Modelization, Signalization, Innovations in Therapeutics, and 2) Immunoregulation, Alarmins and Innate T cells in inflammation.

### MANAGEMENT TEAM

The unit director is Mr Thierry Hauet and the future director will be Mr Luc Pellerin.

### UNIT WORKFORCE

Active staff	Number 06/01/2020 IRTOMIT	Number 01/01/2022 IRMETIST
Full professors and similar positions	16	13
Assistant professors and similar positions	8	6
Full time research directors (Directeurs de recherche) and similar positions	1	1
Full time research associates (Chargés de recherche) and similar positions	1	1
Other scientists ("Conservateurs, cadres scientifiques des EPIC, fondations, industries, etc.")	0	0
High school teachers	0	0
Supporting personnel (ITAs, BIATSSs and others, notably of EPICs)	24	15
<b>Permanent staff</b>	<b>50</b>	<b>36</b>
Non-permanent professors and associate professors, including emeritus	6	

Non-permanent full time scientists, including emeritus, post-docs (except PhD students)	3	
PhD Students	21	
Non-permanent supporting personnel	0	
<b>Non-permanent staff</b>	<b>30</b>	
<b>Total</b>	<b>80</b>	

## GLOBAL ASSESSMENT OF THE UNIT

The IRTOMIT (next mandate IRMETIST) unit has a long-standing experience in understanding the mechanisms of ischemia/reperfusion, sterile inflammation and organ transplantation for kidney, and more recently liver.

The whole unit has a recognized national expertise in the field of ischemia reperfusion in transplantation, and has an increased its scientific production in comparison to the former contract. Since 2015, the unit has published 49 original articles with some of them in well-recognized journals (*American Journal of Transplantation, Journal of American Society of Nephrology, Diabetologia, Diabetes Metabolism, Journal of Translational Medicine*). In addition, members of the unit have been directly (first or last authors) implicated in 56 clinical articles, some of them being well recognized (*Journal of Hepatology, Hepatology, Diabetes Care, Diabetologia*). However, high profile publications are lacking.

The unit has received many grants mainly from charities but had poor success to competitive national academic funding (two ANR as partner), and seems to be in a downward trajectory on this aspect as compared to the previous period. Especially, the unit has not participated in European contracts (H2020) despite their previous participation in an FP7 program.

The unit initiated and regularly organized the successful IMIRT international congress.

The unit has developed excellent interactions with the non-academic world through deposition of four patents, clinical trials, contracts with private partners and participation to the New Aquitaine Region initiative "l'humain recomposé". However, the beneficial impact of FHU for the unit could have been more pronounced.

The unit is very successful in training through research for PhD theses defended by basic and clinician scientists. All the PhD students (17) defended their thesis with at least one publication in first position, the qualitative level of their publications would however deserve to be improved.

The arrival of the future director, with an international reputation, will allow to develop new topics of research that should be developed by using the different platforms available in the environment to gain in innovation.

The visit has clarified the IRMETIST project proposed by the future director. A team spirit and a good adhesion to the project, still to be completed on several aspects, are present. The main objectives are i) Metabolic and immunological mechanisms involved in transplanted marginal organs after ischemia/reperfusion, ii) Metabolic reprogramming of target cells in ischemia/reperfusion and iii) Re-programming of the immune system in pathologic conditions and application to sterile inflammation and organ transplantation. The whole strategy of the five-year project should be more defined in terms of prioritization.

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