

FINAL RESUME ON THE RESEARCH UNIT: Proteomic, Inflammatory Response, Mass Spectrometry (PRISM)

UNDER THE SUPERVISION OF THE FOLLOWING INSTITUTIONS AND RESEARCH BODIES:

Université de Lille

Centre hospitalier régional et universitaire de
Lille - Chru Lille

Institut national de la santé et de la recherche
médicale - Inserm

EVALUATION CAMPAIGN 2018-2019 GROUP E

Report published on March, 11 2019



In the name of Hcéres¹:

Michel Cosnard, President

In the name of the experts committee²:

François Berger, Chairman of the
committee

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

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

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

Tables in this document were filled with data provided by laboratories and supervising bodies in the unit's application and in the Excel files "Données du contrat en cours" and "Données du prochain contrat".

UNIT PRESENTATION

Unit name:	Proteomic, Inflammatory Response, Mass Spectrometry
Unit acronym:	PRISM
Requested label:	UMR Inserm
Application type:	Renewal
Current number:	U 1192
Head of the unit (2018-2019):	Mr Michel SALZET
Project leader (2020-2024):	Mr Michel SALZET
Number of teams:	1

EXPERTS COMMITTEE MEMBERS

Chair:	Mr François BERGER, Université Grenoble-Alpes
Experts:	Mr Christophe CLEMENT, Université de Reims Champagne-Ardenne (representative of CNU)
	Ms Chiara GUERRERA, Inserm Paris (supporting personnel)
	Ms Valérie TALY, CNRS Paris (representative of Inserm CSS)

HCÉRES REPRESENTATIVE

Mr Pierre COUBLE

REPRESENTATIVES OF SUPERVISING INSTITUTIONS AND BODIES

Ms Marie-Josèphe LEROY-ZAMIA, Inserm
Mr Lionel MONTAGNE, Université de Lille
Mr Patrick VERMERCH, Université de Lille

INTRODUCTION

HISTORY AND GEOGRAPHICAL LOCATION OF THE UNIT

U1192 Inserm was created in 2015. It is one of the laboratories of the biology department of sciences and technology at the University of Lille (U Lille). It is located on the first floor of the SN3 building at the campus "Cité scientifique" of U Lille. Since 2015, it is also located at the Faculty of Medicine of U Lille at the hospital campus thanks to the association with D. Vinatier at the department of gynaecology, E. Blanc of the regional cancer comprehensive center of Lille (Centre Oscar Lambret) as well as association with neurooncologists of the neurosurgery department.

MANAGEMENT TEAM

PRISM is a single-team unit with Michel Salzet as the Director and Isabelle Fournier as Deputy Director.

HCÉRES NOMENCLATURE

SVE2_2; ST4_4; SVE6_3.

SCIENTIFIC DOMAIN

The scientific activity is organized in two axes, the first focuses on Maldi MS imaging technologies including tissue microproteomics for high throughput protein identification, on-tissue protein quantification and structure analysis and correlation between proteome and transcriptome. The second axis aims at studying the role of macrophages/microglia cells response modulation in two main clinical applications that are spinal cord injury and brain tumors.

UNIT WORKFORCE

	Unit workforce	
	Proteomic, Inflammatory Response, Mass Spectrometry	
Active staff	Number 30/06/2018	Number 01/01/2020
Full professors and similar positions	6	6
Assistant professors and similar positions	10	7
Full time research directors (Directeurs de recherche) and similar positions	0	0
Full time research associates (Chargés de recherche) and similar positions	0	1
Other scientists ("Conservateurs, cadres scientifiques des EPIC, fondations, industries, etc.")	9	10
High school teachers	0	0
Supporting personnel (ITAs, BIATSSs and others, notably of EPICs)	5	7
Permanent staff	30	31

Non-permanent professors and associate professors, including emeritus	2	
Non-permanent full time scientists, including emeritus, post-docs	16	
PhD Students	13	
Non-permanent supporting personnel	3	
Non-permanent staff	34	
Total	64	

GLOBAL ASSESSMENT OF THE UNIT

PRISM research activity focuses on the development of innovative technologies in the field of Maldi MS imaging technologies from the proteomic concept to its translation at the bedside both *ex-vivo* and *in vivo*. Research activity is organized in two axes: innovation technology axis and therapeutic innovation axis. As suggested by previous Hcéres evaluation, the research unit has shown an effort to implement a more focused research. In particular the axis of the former research unit dedicated to *Hirudo officinalis* has been abandoned. The unit is recognized as EAL (European Associated Laboratory) with the department of surgery and cancer at the Imperial College London since 2017. The life of the unit is well structured. The educational activity is excellent disseminating the knowledge of the unit at the local, national and international levels. The research unit pays attention to the training of young researchers and follows closely the fate of the PhD students and the postdocs. Fundraising has been significantly increased for industry and academic grants. PRISM research achievements in Tag-Mass multiplexed tissue imaging and spidermass technologies are outstanding. An excellent industrial valorisation was carried out with the deposit and validation of several patents as well the creation of Immabiotech and Y-med start-ups. The unit also hosts O'Dreams (Oncological DRivEn Associated Mass Spectrometry), a LabCom with the company Oncovet clinical research. The level of publications was enhanced as illustrated, for example, by the outstanding publication of the Spidermass technology in Cancer Cell. Beside the innovation technology axis, the therapeutic activity axis implements the connected clinical translation and validations. The clinical developments in neuro-oncology are excellent, and well integrated within a multicentre PHRC that will perfectly support the medical validation of the innovative technologies developed by axis 1.

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