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## LBPC-PM - Laboratoire de biologie physico-chimique des protéines membranaires

Rapport Hcéres

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## REPORT ON THE RESEARCH UNIT:

Laboratory of Physical and Chemical Biology of  
Membrane Proteins (LBPC-PM)

## UNDER THE SUPERVISION OF THE FOLLOWING INSTITUTIONS AND RESEARCH BODIES:

Université Paris Diderot

Centre National de la Recherche Scientifique -  
CNRS

**ÉVALUATION CAMPAIGN 2017-2018**  
GROUP D



In the name of Hcéres<sup>1</sup>:

Michel Cosnard, President

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

Erik Goormaghtigh, 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 expert committees and signed by their chairman." (Article 8, paragraph 5);

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

This report is the sole result of the unit's evaluation by the expert committee, the composition of which is specified below. The assessments contained herein are the expression of an independent and collegial reviewing by the committee.

## UNIT PRESENTATION

<b>Unit name:</b>	Laboratory of Physical and Chemical Biology of Membrane Proteins
<b>Unit acronym:</b>	LBPC-PM
<b>Requested label:</b>	UMR
<b>Application type:</b>	Renewal
<b>Current number:</b>	UMR 7099
<b>Head of the unit (2017-2018):</b>	Mr Bruno MIROUX
<b>Project leader (2019-2023):</b>	Mr Bruno MIROUX
<b>Number of themes:</b>	4

## COMMITTEE MEMBERS

<b>Chair:</b>	Mr Erik GOORMAGHTIGH, Université Libre de Bruxelles, Belgique
<b>Experts:</b>	Ms Christelle BRETON, CERMAV-CNRS, Grenoble (representative of CNU) Ms Valérie CAMPANACCI, I2BC Paris-Saclay (supporting personnel) Ms Marie-Thérèse GIUDICI ORTICONI, IMM-CNRS (representative of CoNRS) Ms Sylvie NESSLER, I2BC Paris-Saclay
<b>HCERES scientific officer:</b>	Mr Olivier BERTEAU
<b>Representatives of supervising institutions and bodies:</b>	Mr Hugues LORTAT-JACOB, CNRS Mr Alain ZIDER, Université Paris Diderot

## INTRODUCTION

### HISTORY AND GEOGRAPHICAL LOCATION OF THE UNIT

The UMR 7099 is located at the Institute of Physical and Chemical Biology (IBPC) within the Paris Sciences Lettres University campus that brings together the École Normale Supérieure, the Curie Institute, Institut Henri Poincaré, Chimie-ParisTech and several other engineer schools. The unit is also close to the Collège de France and Paris Descartes Pharmacy University, with which it has institutional collaborations. The unit has been associated for more than 20 years with Paris-Diderot University Biology Department (UFR).

### MANAGEMENT TEAM

The laboratory is headed by Mr Bruno MIROUX with assistance of a financial manager.

### HCERES NOMENCLATURE

SVE2 Biologie Cellulaire, Imagerie, Biologie Moléculaire, Biochimie, Génomique, Biologie Systémique, Développement, Biologie Structurale.

### SCIENTIFIC DOMAIN

The unit has a strong focus on fundamental mechanisms of membrane protein functions and membrane dynamics. In particular, it has developed considerable skills in energy coupling and supramolecular assembly of electron transfer chain, in molecular signalling of GPCR and in the transport and membrane dynamic in bacteria. The unit has also created outstanding tools for the study of membranes at the molecular level.

### UNIT WORKFORCE

Unit workforce	Number 30/06/2017	Number 01/01/2019
<b>Permanent staff</b>		
Full professors and similar positions	0	0
Assistant professors and similar positions	1	1
Full time research directors (Directeurs de recherche) and similar positions	4	4
Full time research associates (Chargés de recherche) and similar positions	4	4
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)	7	7
<b>TOTAL permanent staff</b>	<b>16</b>	<b>16</b>
<b>Non-permanent staff</b>		

Non-permanent professors and associate professors, including emeritus	0	
Non-permanent full time scientists, including emeritus, post-docs	5	
Non-permanent supporting personnel	1	
PhD Students	5	
<b>TOTAL non-permanent staff</b>	<b>11</b>	
<b>TOTAL unit</b>	<b>27</b>	

## GLOBAL ASSESSMENT OF THE UNIT

This evaluation covers the last five years of this research unit. The publication policy of the unit resulted in the production of a very good number of publications with a very high impact factor. The dissemination of the unit results was further strengthened by presentations at numerous international conferences and the organization of conferences. In addition, the unit has also "invented" and developed a new class of molecules, the amphipols, which represent today a key tool for the study of membrane proteins, in particular by cryo-EM. Currently, this tool is used worldwide. Finally, the committee underscores the quality of the management that provided excellent work conditions, with no exception, whatever the category of personnel.

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