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## CDC - Cell biology and cancer

Rapport Hcéres

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## REPORT ON THE RESEARCH UNIT:

Compartimentation et dynamique cellulaires  
(CDC)

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

Institut Curie

Centre National de la Recherche Scientifique -  
CNRS

Université Pierre et Marie Curie

**EVALUATION 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>:

Bernard Ducommun, 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>                    | Compartmentation et dynamique cellulaires |
| <b>Unit acronym:</b>                 | CDC                                       |
| <b>Requested label:</b>              | UMR                                       |
| <b>Application type:</b>             | Renewal                                   |
| <b>Current number:</b>               | UMR 144                                   |
| <b>Head of the unit (2017-2018):</b> | Mr Bruno GOUD                             |
| <b>Project leader (2019-2023):</b>   | Mr Franck PEREZ                           |
| <b>Number of teams:</b>              | 13 teams                                  |

## COMMITTEE MEMBERS

|                                   |  |
|-----------------------------------|--|
| <b>Chair:</b>                     | Mr Bernard DUCOMMUN, Université de Toulouse  |
| <b>Experts:</b>                   | Ms Corinne ALBIGES-ROZO, Institut Albert Bonniot (representative of CoNRS)<br>Mr Philippe BASTIENS, Max Planck Institute, Germany<br>Mr Jean-Paul BORG, Centre de Recherche en Cancérologie, Marseille<br>Mr Julien CAU, Institut de Génétique Humaine, Montpellier (supporting personnel)<br>Ms Cécile GAUTHIER-ROUVIERE, Centre de Recherche en Biologie Cellulaire, Montpellier<br>Ms Gillian GRIFFITHS, Cambridge Institute for Medical Research, United Kingdom<br>Mr Roland LEBORGNE, Institut de Génétique et de Développement, Rennes<br>Mr Jonathon PINES, The Gurdon Institute, United Kingdom<br>Mr Éric SOLARY, Institut Gustave Roussy, Villejuif<br>Mr Michel STEINMETZ, Paul Scherrer Institute, Switzerland<br>Mr Thomas SURREY, The Francis Crick Institute, United Kingdom |
| <b>HCERES scientific officer:</b> | Ms Urszula HIBNER  |

**Representatives of supervising institutions and bodies:**

Ms Geneviève ALMOUZNI, Institut Curie

Mr Hervé MOREAU, CNRS

Ms Frédérique PERRONNET, Université Pierre et Marie Curie

## INTRODUCTION

### HISTORY AND GEOGRAPHICAL LOCATION OF THE UNIT

The UMR 144 "Subcellular structure and cellular dynamics" was created in 1995 as a joint research unit with Institut Curie, CNRS and University Pierre et Marie Curie (UPMC U Paris 6). It was renewed on January 1<sup>st</sup>, 1999, 2003, 2007, and 2011. It is located 12 rue Lhomond in Bâtiment Lhomond, which is one of the Institut Curie research buildings on the montagne Ste Geneviève in the close vicinity of the Curie Hospital.

### MANAGEMENT TEAM

The current director is Bruno GOUD (DRCE, CNRS). From January 2019 Franck PEREZ (DR1, CNRS) will head the unit assisted by a deputy director Renata BASTO (DR2, CNRS).

### HCERES NOMENCLATURE

SVE\_1, SVE2\_2, SVE2\_3.

### SCIENTIFIC DOMAIN

The 14 teams currently hosted at the UMR 144 are conducting research that covers various aspects of cell biology and cancer cell biology, including intracellular transport, cytoskeletal dynamics, cell division and migration, cell differentiation, morphogenesis, and cell signaling. The general scientific objective of these teams is to understand the biogenesis of cell compartments, the molecular mechanisms that control normal cell functions and their dysregulation, in particular in cancerogenesis.

The unit is part of the scientific domain entitled "Multiscale physics-biology-chemistry and cancer" of the Curie Institute, together with two other units: UMR 168 (Maxime Dahan) and UMR 366 (Ludger Johannes), that has been organized to facilitate and strenghten robust scientific interactions between the teams. The UMR 144 is also part of the Laboratory d'Excellence (LABEX) CellTisPhyBio coordinated by B. Goud and M. Dahan.

With the aim to clarify the scientific identity, the management proposes to rename the research unit as: Cell Biology and Cancer".

### UNIT WORKFORCE

| Unit workforce  | Number<br>30/06/2017 | Number<br>01/01/2019 |
|---|----------------------|----------------------|
| <b>Permanent staff</b>  |                      |                      |
| Full professors and similar positions   | 2                    | 2                    |
| Assistant professors and similar positions  | 1                    | 1                    |
| Full time research directors (Directeurs de recherche) and similar positions                    | 14                   | 14                   |
| Full time research associates (Chargés de recherche) and similar positions                      | 15                   | 15                   |
| 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)                               | 27                   | 33                   |

|   |            |           |
|---|------------|-----------|
| <b>TOTAL permanent staff</b>  | <b>59</b>  | <b>65</b> |
| <b>Non-permanent staff</b>  |            |           |
| Non-permanent professors and associate professors, including emeritus | 0          |           |
| Non-permanent full time scientists, including emeritus, post-docs     | 38         |           |
| Non-permanent supporting personnel                                    | 22         |           |
| PhD Students  | 39         |           |
| <b>TOTAL non-permanent staff</b>                                      | <b>99</b>  |           |
|   |            |           |
| <b>TOTAL unit</b>   | <b>158</b> |           |

## GLOBAL ASSESSMENT OF THE UNIT

The UMR 144 is an outstanding unit where modern cutting-edge cell biology is conducted with brio. With a remarkable interdisciplinary panel of specialists, the unit carries out highly original research at the forefront of their fields.

The excellence of the recent recruits and the internationally recognized outstanding quality of the established groups, together with a remarkable technological environment (imaging and antibody core facilities) make the UMR 144 a very attractive and unique place with high national and international visibility.

The unit is very successful in attracting grants from major French and international funding agencies, and funding from industrial bodies. Two groups received an ERC starting grant, one an ERC consolidator and one an ERC advanced grant.

UMR 144 has an exceptional scientific production with 370 publications, one third in journals with impact factors above 9 (*Nature Cell Biol.*, *Science*, *Cell rep.*, *Nature Commun*, *Curr Biol.*, *PNAS*, *Sci. Transl. Med.*). The Unit has a major international reputation and is attractive for students and post-docs.

The future research plan and strategy are outstanding, with all the ingredients to succeed in producing results and publications of major impact.

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