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## LBD - Laboratoire de biologie du développement

Rapport Hcéres

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REPORT ON THE RESEARCH UNIT:  
Developmental Biology Laboratory - IBPS - LBD

UNDER THE SUPERVISION OF THE  
FOLLOWING INSTITUTIONS AND  
RESEARCH BODIES:

Université Pierre et Marie Curie

Centre National de la Recherche Scientifique -  
CNRS

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

**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>:

Marco Milan, 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>	IBPS - Developmental Biology Laboratory
<b>Unit acronym:</b>	IBPS - LBD
<b>Requested label:</b>	UMR
<b>Application type:</b>	Renewal
<b>Current number:</b>	UMR 7622
<b>Head of the unit (2017-2018):</b>	Ms Sylvie SCHNEIDER-MAUNOURY
<b>Project leader (2019-2023):</b>	Ms Sylvie SCHNEIDER-MAUNOURY
<b>Number of teams:</b>	17

## COMMITTEE MEMBERS

**Chair:** Mr Marco MILAN, Institute for Research in Biomedicine Barcelona, Spain

**Experts:**

- Ms Sophie CHAUVET, IBDM, Marseille (representative of CoNRS)
- Mr Michel COHEN-TANNOUJJI, Institut Pasteur, Paris
- Mr Thierry GAUDE, ENS, Lyon
- Mr Simon HUGUES, King's College, London, United Kingdom
- Ms Elisa MARTI, CSIC Barcelona, Spain
- Mr Jonathon PINES, ICR, London, United Kingdom
- Mr Jean-Pierre QUIVY, Institut Curie, Paris (representative of INSERM CSS)
- Ms Isabelle RICHARD, U1183, Montpellier (supporting personnel)
- Mr Pascal THEROND, iBV, Nice
- Mr Sander VAN DEN HEUVEL, Utrecht University, Netherlands
- Mr Elazar ZELZER, Weismann Institute Rehovot, Israel

**HCERES scientific officer:**

Mr Pierre COUBLE

**Representative of supervising institutions and bodies:**

Mr Jean-Maurice DURA, CNRS

Mr Bertrand MEYER, University Paris 6

Ms Sylvie ROBINE, Inserm

## INTRODUCTION

### HISTORY AND GEOGRAPHICAL LOCATION OF THE UNIT

The Developmental Biology Laboratory (LBD) was created in January 1997 as a mixed research unit affiliated to the Université Pierre et Marie Curie (UPMC) and CNRS. Since January 2014, the LBD belongs to the Institut de Biologie Paris Seine (IBPS), which consists of five research units focused on Developmental Biology (LBD), Ageing (B2A), Neurosciences (NPS), Evolution, and Computational and quantitative Biology (LCQB). The LBD is located in premises of UPMC and gathers 17 research groups and 5 common services. Although the number of LBD research groups has remained stable in the last few years, it has been reorganized following the last AERES review in 2013. Five groups were either closed or moved to other IBPS units and four new groups joined the LBD Unit (two from on-site units, one from Strasbourg and one junior recruited from an international call).

### MANAGEMENT TEAM

The director is Ms Sylvie SCHNEIDER-MAUNOURY who took over the position in 2013 and will chair the LBD for the coming 5-year period with the help of the two deputy directors, Ms Frédérique PERONNET and Mr Thierry JAFFREDO.

### HCERES NOMENCLATURE

SVE1\_1; SVE2\_2; SVE2\_3.

### SCIENTIFIC DOMAIN

The LBD addresses the cellular, molecular, genetic and epigenetic mechanisms of different aspects of the development, meiosis and fertilization of multicellular animals and plants, using a variety of model organisms including *Drosophila melanogaster*, *C. elegans*, zebrafish, *Xenopus*, chicken, mice and plants. The LBD uses combines quantitative biology approaches with imaging, genome-wide approaches and bioinformatics.

### UNIT WORKFORCE

Unit workforce	Number 30/06/2017	Number 01/01/2019
<b>Permanent staff</b>		
Full professors and similar positions	11	11
Assistant professors and similar positions	23	23
Full time research directors (Directeurs de recherche) and similar positions	13	12
Full time research associates (Chargés de recherche) and similar positions	11	11
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)	37	36

<b>TOTAL permanent staff</b>	<b>95</b>	<b>93</b>
<b>Non-permanent staff</b>		
Non-permanent professors and associate professors, including emeritus	0	
Non-permanent full time scientists, including emeritus, post-docs	10	
Non-permanent supporting personnel	6	
PhD Students	31	
<b>TOTAL non-permanent staff</b>	<b>47</b>	
<b>TOTAL unit</b>	<b>142</b>	

## GLOBAL ASSESSMENT OF THE UNIT

The LBD is integrated within the Institut de Biologie Paris Seine (IBPS), and this integration has clearly improved since the last AERES review with the recruitment of new groups, including the one led by the present IBPS director and two new junior teams, but should be consolidated in coming years to increase visibility, interdisciplinarity and scientific success of the unit. .. All LBD teams are dedicated to fundamental research in the domains of developmental biology, fertilization and meiosis, and use an excellent variety of model organisms. The unit has published a high number of publications headed by LBD group leaders in excellent journals such as *Nature Cell Biol*, *Nature Commun*, *Molecular Cell*, *Cell Stem Cell*, *Developmental Cell*, *Journal of Clinical Investigation*, *eLife*, *PloS Genetics and Development*. Most research teams are funded with competitive national (ANR, CNRS and INSERM) and a few international (EU/ERC, EU/H2020) grants. The unit is actively involved in training at the UPMC, and is well subdivided into different research topics around the field of developmental biology. The overall LBD scientific performance is excellent in number and quality of scientific publications, training and funding resources. Unfortunately, the interspersed distribution of the different teams within the UPMC building and the current conditions of the building do not contribute much to the better integration of all research teams within the unit and to the excellent performance of the unit.

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