

## FINAL RESUME ON THE RESEARCH UNIT:

Genetics, Reproduction and Development -  
GReD

Under the supervision of the following  
institutions and research bodies:

Université Clermont-Auvergne

Centre National de la Recherche Scientifique -  
CNRS

Institut National de la Santé et de la Recherche  
Médicale - Inserm

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**EVALUATION CAMPAIGN 2019-2020**  
GROUP A



In the name of Hcéres<sup>1</sup>:

Nelly Dupin, Acting  
President

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

Michel Werner, 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 data submitted by the supervising body on behalf the unit.

## UNIT PRESENTATION

<b>Unit name:</b>	Genetics, Reproduction and Development
<b>Unit acronym:</b>	GReD
<b>Current label and N°:</b>	CNRS UMR 6293 - CLERMONT UNIVERSITE - INSERM U1103
<b>ID RNSR:</b>	200820390H
<b>Application type:</b>	Renewal
<b>Head of the unit (2019-2020):</b>	Ms Chantal VAURY
<b>Project leader (2021-2025):</b>	Mr Krzysztof JAGLA
<b>Number of teams and/or themes:</b>	14

## EXPERTS COMMITTEE MEMBERS

<b>Chair:</b>	Mr Michel WERNER, CNRS Paris
	Mr Joshua BRICKMAN, University of Copenhagen, Denmark
	Mr Marc BÜHLER, Friedrich Miescher Institute for Biomedical Research, Switzerland
	Mr Vincent COLOT, CNRS Paris
	Mr Norbert B. GHYSELINCK, Université de Strasbourg (representative of CoNRS)
<b>Experts:</b>	Mr Michael IMBEAULT, University of Cambridge, United Kingdom
	Ms Sarah LAMBERT, Institut Curie Orsay
	Ms Isabelle LE PARCO, Université Paris Diderot (supporting personnel)
	Mr René MEGE, CNRS Paris
	Mr Romeo RICCI, Les hôpitaux universitaires de Strasbourg
	Ms Claire THIBAULT, Sorbonne Université (representative of Inserm CSS)

## HCÉRES REPRESENTATIVE

Mr Hinrich GRONEMEYER

## REPRESENTATIVES OF SUPERVISING BODIES

Mr Laurent ALLART, INSERM

Ms Anne FOGLI, UCA

Mr Ludovic LECONTE, CNRS

Mr Hervé MOREAU, CNRS

Mr Pierre SCHIANO, UCA

## INTRODUCTION

### HISTORY AND GEOGRAPHICAL LOCATION OF THE UNIT

The Genetics Reproduction and Development (GReD) laboratory was founded in 2008 under the joint sponsorship of the Université Blaise Pascal and the Université d'Auvergne with support from the region Auvergne, the Centre National de la Recherche Scientifique (CNRS) and the Institut National de la Santé de la Recherche Médicale (INSERM). The GReD is a major biosciences research unit in Clermont-Ferrand with a focus on understanding the genetic and epigenetic programs underlying development, reproduction and abnormal, diseased states. The research of the GReD teams are aligned along three axes: (1) Genome Dynamics and Epigenetic Control (six teams); (2) Reproduction and Development in Health and Disease (five teams); (3) Endocrinology, Signalling and Cancer (three teams). The laboratory now consists of 14 research teams. The GReD researchers have expertise in plants, fungi, invertebrates such as *Drosophila*, and mammals including mouse and human. The unit was located at two separate sites ~3 km apart: the Faculty of Medicine of Clermont-Ferrand and the Cézeaux University campus. However, an important change occurred in 2017 when all research teams of the GReD moved to a new building, the Center for Clinical and Biological Research (CCBR), located on the medical campus.

### MANAGEMENT TEAM

The unit is currently directed by C. Vaury, the Director since 2008, and J. Drevet, the Associate-Director. K. Jagla is proposed to become the Director for the next contract. A. Fogli is proposed as the future Associate-director.

### HCÉRES NOMENCLATURE

SVE2

### THEMATICS

The GReD focuses on three major topics: (i) Genome dynamics and epigenetic control, (ii) reproduction in health and disease, and (iii) endocrinology, signaling and cancer.

The unit uses the most appropriate biological models as a function of the question of interest: plants, fungi, vertebrate and invertebrate animals. The approaches span basic to translational research in partnership with the clinics and the private sector.

### UNIT WORKFORCE

<b>GReD</b>		
<b>Active staff</b>	<b>Number 06/30/2019</b>	<b>Number 01/01/2021</b>
Full professors and similar positions	16	16
Assistant professors and similar positions	27	27
Full time research directors (Directeurs de recherche) and similar positions	14	14
Full time research associates (Chargés de recherche) and similar positions	7	7
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)	31	30

<b>Permanent staff</b>	<b>95</b>	<b>94</b>
Non-permanent professors and associate professors, including emeritus	0	
Non-permanent full time scientists, including emeritus, post-docs (except PhD students)	8	
PhD Students	26	
Non-permanent supporting personnel	3	
<b>Non-permanent staff</b>	<b>37</b>	
<b>Total</b>	<b>132</b>	<b>94</b>

## GLOBAL ASSESSMENT OF THE UNIT

GReD is a unit operating in several fields of fundamental and translational biology concentrating on genome dynamics and epigenetics, reproduction, and endocrinology and cancer. The unit increased significantly the number and quality of its publications during the period. It was well funded in particular thanks to the region and the university. Nevertheless, it could still improve its European funding. The interactions with the industry were also improved compared to the previous period. In general, its interaction with the non-academic world were strong.

The unit was previously hosted in two separate campuses and has moved in 2017 in a brand-new building which has been equipped with up to date equipment run by several platforms. The profound reshaping of the institute wouldn't have been possible without the very strong support of the Université Clermont Auvergne and of the region Auvergne Rhône Alpes. During the period, the scientific output of the institute has progressed both in quantity and quality which benefits the time and money investments.

The quality of life in the institute has been assessed by the committee. It was apparent that all categories of personnel of the institute appreciate their work environment and that the new building is seen as an opportunity to network and collaborate.

The unit has responded to the recommendations of the previous visiting committee including to reinforce bioinformatics setting up a platform. Nevertheless, it should continue its efforts in that direction since many of the team projects will rely heavily on bioinformatics. Another area in which the unit should concentrate is the recruitment of foreign group leaders and post-doctoral fellows able to bring new ideas.

The unit is deeply involved in teaching at the university. This situation leads to an important flux of Master students. It also allows to attract very regularly PhD students. Nevertheless, the teaching burden of the professors and assistant-professors is heavy.

The committee wants to congratulate the current Director of the GReD, and the Deputy director, for their great leadership that led to the profound and positive transformation of the GReD. The future Director has the trust of the group leaders and the personnel to pursue current management's work.

The institute has thus the tools needed to produce excellent research in the next five years and is encouraged to pursue its quest for doing the best possible science.

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2 rue Albert Einstein  
75013 Paris, France  
T. 33 (0)1 55 55 60 10

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