

FINAL RESUME ON THE RESEARCH UNIT:

Institut de génomique fonctionnelle
de Lyon - IGFL

UNDER THE SUPERVISION OF THE FOLLOWING INSTITUTIONS AND RESEARCH BODIES:

Centre national de la recherche
scientifique - CNRS

ENS de Lyon

Université Claude Bernard Lyon 1

EVALUATION CAMPAIGN 2019-2020 GROUP A



In the name of Hcéres¹:

Nelly Dupin, Acting
President

In the name of the experts committee²:

Pierre Leopold, 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 submitted by the supervising body on behalf the unit.

UNIT PRESENTATION

Unit name: Institut de génomique fonctionnelle de Lyon

Unit acronym: IGFL

Current label and N°: UMR 5242

ID RNSR: 200717460C

Application type: Renewal

Head of the unit (2019-2020): Ms Florence RUGGIERO

Project leader (2021-2025): Mr François LEULIER

Number of teams and/or themes: 12

EXPERTS COMMITTEE MEMBERS

Chair: Mr Pierre LEOPOLD, Inserm, Paris

Experts:

Mr Enrique AMAYA, University of Manchester, United Kingdom

Ms Allison BARDIN, CNRS Paris

Ms Antonella FORLINO, University of Pavia, Italy

Mr Jukka JERNVALL, University of Helsinki, Finland

Mr Laurent KODJABACHIAN, CNRS Marseille (representative of CoNRS)

Ms Jane MELLOR, Oxford University, United Kingdom

Mr Didier PICARD, Université de Genève, Switzerland

Mr Siegfried ROTH, University of Cologne, Germany

Ms Elisabeth SCHEER, Université de Strasbourg (supporting personnel)

HCÉRES REPRESENTATIVE

Mr Hinrich GRONEMEYER

REPRESENTATIVES OF SUPERVISING BODIES

Mr Hervé MOREAU, CNRS

Mr Philippe ANDRÉ, CNRS

Mr Yanick RICARD, ENS

INTRODUCTION

HISTORY AND GEOGRAPHICAL LOCATION OF THE UNIT

The Institut de Génomique fonctionnelle de Lyon (UMR5242) was created in January 2007 on the Monod campus of ENSL, with the support of ENSL, CNRS and University Claude Bernard. It also benefits from a contract with INRA (USC 1170). The unit moved to its actual building (ave. Tony Garnier) in fall 2012. At this stage, the Unit was composed of a mix of "historical" teams issued from various departments in the Lyon scientific landscape and 5 newly recruited teams (Khila, Ruggiero, Averof, Merabet, Leulier). New calls in 2014 and 2015 helped recruiting 3 more groups (Goudemand, Padmanabhan, Aguilaniu). During this period, 5 teams were closed, and the team of Aguilaniu moved out of the IGFL. Under the recent direction of F. Ruggiero, two new junior teams (Ghavi-Helm, Enriquez)) have joined the unit, for a total of 13 teams.

Management team

The team is currently headed by Florence Ruggiero, director, and Frédéric Flamant, deputy director.

The proposed director for the next 5-year period will be François Leulier, with Jonathan Enriquez as deputy director.

HCÉRES NOMENCLATURE

SVE2_3

THEMATICS

The scientific activity developed by the 12 IGFL research teams is centered on three interdependent axes: (i) evolutionary biology and comparative genomics (ii) mechanisms of development and and (iii) integrative and molecular physiology.

UNIT WORKFORCE

INSTITUT DE GENOMIQUE FONCTIONNELLE DE LYON		
Active staff	Number 06/30/2019	Number 01/01/2021
Full professors and similar positions	4	3
Assistant professors and similar positions	6	4
Full time research directors (Directeurs de recherche) and similar positions	7	7
Full time research associates (Chargés de recherche) and similar positions	13	12
Other scientists ("Conservateurs, cadres scientifiques des EPIC, fondations, industries, etc.")	0	
High school teachers	0	
Supporting personnel (ITAs, BIATSSs and others, notably of EPICs)	27	26
Permanent staff	57	52
Non-permanent professors and associate professors, including emeritus	1	
Non-permanent full time scientists, including emeritus, post-docs (except PhD students)	12	
PhD Students	21	
Non-permanent supporting personnel	14	

Non-permanent staff	48	
Total	105	52

GLOBAL ASSESSMENT OF THE UNIT

The hallmark of this institute is the successful use of advanced functional genomics approaches on a variety of conventional and unconventional models to tackle questions related to the evolution of morphological and developmental processes and the function of genes in developmental and pathological processes. The global assessment of the unit is excellent. IGFL is a very dynamic institute, which has successfully evolved over the recent period to become a highly visible research institute in France and more broadly in Europe.

One of the strongest indicators for scientific visibility, i.e., success to European Research Council funding, is excellent: 4 ERC and 1 H2020 grants were running during the last 5-year period. In addition, the institute recently hired 3 young group leaders with ATIP/Avenir funds. Many ANR grants were obtained as coordinators, as well as FRM labélisations. The scientific production is excellent, one third in the top tier generalist journals and one third in high visibility specialty journals. The contribution of the IGFL teams to this scientific success is variable and some teams are clearly less successful at producing high visibility science and obtaining competitive funding.

The dynamics of the unit is reflected in its capacity to actively recruit new groups through competitive calls driven by an external international SAB as well as to recruit researchers on permanent positions. One less positive aspect is the decrease in recruitment of post-docs during the period, which could be due to the difficulty to secure grants allowing personnel recruitment.

The team organisation is excellent, centered around a set of scientific and strategic entities that organise regular meetings.

During the period, the IGFL has developed technological platforms allowing the different groups to access to state of the art technological development in CRISPR/Cas9 genome editing and NGS (PSI platform). It also performed the remodelling of its in-house animal facilities to implement new models like *Parhyale* and the semi-aquatic bugs and to double the capacity of the mouse and fly facilities.

The institute benefits from a good core support from the CNRS, as well as the ENSL. The Unit also benefits from UCBL and INRAE support. In addition to this, ENSL has recently contributed to exceptional requests for equipment or renovation of the animal housing facilities.

The future project of the unit is excellent. It relies on the current scientific expertise and the will to maintain a strong interdisciplinarity between the present scientific directions: evolution and genomics/development and regeneration/integrative and molecular physiology.

Overall, despite a marked heterogeneity, the Unit has maintained an excellent track record during the past last 5 years. The project is excellent. The next director has a strong vision and a high scientific recognition, which constitute excellent ground for the future success of the unit.

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