

FINAL RESUME ON THE RESEARCH UNIT:
Institute for Structural Biology (IBS)

UNDER THE SUPERVISION OF THE
FOLLOWING INSTITUTIONS AND
RESEARCH BODIES:

Commissariat à l'énergie atomique et aux
énergies alternatives – CEA

Centre national de la recherche scientifique –
CNRS

Université Grenoble Alpes - UGA

EVALUATION CAMPAIGN 2019-2020
GROUP A



In the name of Hcéres¹:

Nelly Dupin, acting
President

In the name of the experts committee²:

Jacqueline Cherfils, Chairwoman 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:	Institute for Structural Biology
Unit acronym:	IBS
Current label and N°:	UMR 5075
ID RNSR:	199911764W
Application type:	Renewal
Head of the unit (2019-2020):	Mr Winfried WEISSENHORN
Project leader (2021-2025):	Mr Winfried WEISSENHORN
Number of groups	19

EXPERTS COMMITTEE MEMBERS

Chair:	Ms Jacqueline CHERFILS, CNRS ENS Paris-Saclay
Chair subcommittee 1:	Ms Catherine ETCHEBEST, Université Paris-Diderot (representative of CNU)
Chair subcommittee 2:	Ms Jacqueline CHERFILS, CNRS Gif-sur-Yvette
Experts:	Mr Rolf BOELEN, Utrecht University, New Zealand
	Ms Valérie CAMPANACCI, CNRS Gif-sur-Yvette (supporting personnel)
	Ms Marie-Thérèse GIUDICI-ORTICONI, CNRS Marseille (representative of CoCNRS)
	Mr Juan HERMOSO, Consejo Superior de Investigaciones Científicas, Spain
	Mr Ludger JOHANNES, Institut Curie Paris
	Ms Barbara MULLOY, Kings College London, United Kingdom
	Mr Pierre PAOLETTI, Inserm Paris
	Mr Joseph PUGLISI, Stanford University, United States
	Mr Roger WILLIAMS, Medical Research Council, United Kingdom
	Mr Ian TAYLOR, Francis Crick Institute, United Kingdom
	Ms Carine VAN HEIJENOORT, CNRS Gif-sur-Yvette

HCÉRES REPRESENTATIVE

Mr Yacine GRABA

REPRESENTATIVES OF SUPERVISING INSTITUTIONS AND BODIES

Ms Elizabeth CORTIJO, CEA

Mr Hervé COURTOIS, Université Grenoble Alpes

Ms Isabelle DHÉ, CNRS. Courtois, Université Grenoble Alpes

Mr Jérôme GARIN, CEA

Ms Anne MILLET, Université Grenoble Alpes

Ms Catherine RECHENMANN, CNRS

INTRODUCTION

HISTORY AND GEOGRAPHICAL LOCATION OF THE UNIT

The Institute for Structural Biology (IBS) was created in 1991 close to the European large scale facilities, the synchrotron X-ray facility (ESRF) and the neutron source (ILL), and moved to a new building located in the EPN campus in 2013. It is a joint research unit (CNRS, UGA and CEA). It is part of the PBS (Partnership for Structural Biology), an international partnership with the ESRF (European Synchrotron Radiation Facility), EMBL (European Molecular Biology Laboratory) and ILL (Institut Laue-Langevin). In 2015, the teams from the UVHCI (Unit of Virus Host Cell Interactions) have joined the IBS. Since 2019, IBS is a member of a new CEA institute, IRIG (Institut de Recherche Interdisciplinaire de Grenoble). Currently, the IBS includes 19 groups, some of which comprise teams with clearly identified PIs. The number of personnel slightly increased compared to the previous evaluation with 250 personnel. The IBS operates, or participates in, the operation of 12 infrastructures in structural biology.

MANAGEMENT TEAM

The director for the next contract is Winfried WEISSENHORN and is supported by 2 deputy directors, Cécile BREYTON and Martin BLACKLEDGE.

HCÉRES NOMENCLATURE

SVE1-1; SVE2-1; SVE3-4.

THEMATICS

The objective of the IBS is to provide functional and structural insights into physiological and pathological processes of the cell at different levels of resolution. To this aim, the IBS develops and uses methods for integrated structural biology at the interface of biology, physics and chemistry, and applies them to the study of biological processes. Its research is organized around 3 major research themes/programs: *Microbiology, Infection & Immunity, Dynamics, Assembly & Reactivity* and *Membrane Proteins & Glycobiology*.

UNIT WORKFORCE

Institut de Biologie Structurale		
Active staff	Number 06/30/2019	Number 01/01/2021
Full professors and similar positions	10	9
Assistant professors and similar positions	17	15
Full time research directors (Directeurs de recherche) and similar positions	37	36
Full time research associates (Chargés de recherche) and similar positions	26	22
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)	73	68
Permanent staff	163	150
Non-permanent professors and associate professors, including emeritus	1	
Non-permanent full time scientists, including emeritus, post-docs (except PhD students)	3	

PhD Students	45	
Non-permanent supporting personnel	57	
Non-permanent staff	106	
Total	269	150

GLOBAL ASSESSMENT OF THE UNIT

The IBS has continued to carry out outstanding research in integrated structural biology, through the development of innovative methods and their application to documenting challenging questions in biology and health. This endows the IBS with high international visibility, with the organization of numerous international meetings, and attractiveness for PhD students, post-docs and visiting scientists. It benefits from well-established and fruitful partnerships within a unique scientific environment. The quality of the research is assessed by a large number of publications, many of which in high-ranking journals. The IBS groups also have spectacular success at securing national and international funding, with a rate twice the average national rate. An important aspect of IBS activities is its involvement in operating, or participating in the operation, of platforms in structural biology. These platforms should be praised for their role in disseminating innovative methods in structural biology. The unit has an excellent organisation and scientific life.

IBS personals are actively involved in training students. Significant non-academic interactions have been developed through contracts with companies and through filed or exploited patents.

Current threats have been identified in funding the mandatory upgrade of expensive equipment and replacement of widely used facility equipment, which may need particular attention in the context of changes in the new organization of IBS with its supervising bodies.

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