



Research evaluation

FINAL RESUME ON THE RESEARCH UNIT
OENO - Research Unit Oenology

UNDER THE SUPERVISION OF THE
FOLLOWING INSTITUTIONS AND
RESEARCH BODIES:

Université de Bordeaux
Bordeaux INP

EVALUATION CAMPAIGN 2020-2021
GROUP B

Report published on May, 20 2021

High Council for evaluation of research and higher education



In the name of Hcéres¹:

Mr Thierry Coulhon, President

In the name of the experts committee²:

Mr Mario Pezzotti, 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 certified data submitted by the supervising body on behalf of the unit.

UNIT PRESENTATION

Unit name:

Research Unit Oenology

Unit acronym:

OENO

Current label and N°:

EA 4577, USC 1366 INRAE

ID RNSR:

201622179T

Application type:

Renewal

Head of the unit (2020-2021):

Mr Philippe Darriet

Project leader (2021-2025):

Mr Patrick Lucas

Number of axis:

3

EXPERTS COMMITTEE MEMBERS

Chair:

Mr Mario Pezzotti, University of Verona, Italy

Experts:

Ms Sylvie Bureau, Inrae, Avignon (supporting personnel)

Ms Catherine Dacremont, Agrosup Dijon

Mr Victor De Freitas, University of Porto, Portugal

Ms Raphaëlle Tourdot-Marechal, Université de Bourgogne, Dijon
(representative of CNU)

HCÉRES REPRESENTATIVE

Ms Catherine Mouneyrac

REPRESENTATIVES OF SUPERVISING INSTITUTIONS AND BODIES

Mr Olivier Lavaille, INRAE

Mr Philippe Moretto, Université de Bordeaux

Ms Véronique Pallet, Bordeaux INP

INTRODUCTION

HISTORY AND GEOGRAPHICAL LOCATION OF THE UNIT

The Oenology research unit (OENO) is located in Bordeaux. It has a long history dating back to nearly 150 years ago. Today, teaching activities are managed by the College of Bordeaux University, while the scientific research is under the responsibility of OENO.

It is structured into three axes: The Quality and Identity of Wines (QIV) axis, the Microorganisms: diversity, metabolisms, selection (MIC) axis and the Molecules of Biological Interest (MIB) axis. The unit welcomes researchers, professors, lecturers, engineers and technical staff from public sector and from private companies.

RESEARCH ECOSYSTEM

OENO has been under the supervision of the University of Bordeaux (UB) since its creation and developed a strong link with INRAE since the 1960s. The Bordeaux Institute of Technology (Bordeaux INP) became its second supervisory authority in 2011. OENO also welcomes personnel from Bordeaux Sciences Agro (BSA) and from private companies under specific contractual agreements.

OENO is affiliated to the research field: Department of Environmental Sciences of UB, to the TRANSFORM (Food, bioproducts and waste) Department of INRAE, and to the "Institut des Sciences et de la Vigne" (ISVV) of UB.

OENO originated "Microflora", "Polyphenol-Biotech" and "Amarante-Process" technology transfer units (TTUs). OENO takes part in the INRAE network through the TRANSFORM department and the INRAE Nouvelle-Aquitaine Bordeaux Center. The unit participates to the INRAE Metaprograms and LACCAGE (Long-term Adaptation to Climate Change in Viticulture and oEnology, 2012-2016) and LACCAGE 2.21 (2018-2022) projects. OENO promoted three platforms (Wine-Research-Authenticity-Identity Platform-VRAI, Nano-vinification, Biological Resources Center-CRBO) and one observatory (Bordeaux Raisins).

HCÉRES NOMENCLATURE AND THEMATICS OF THE UNIT

SVE1 (SVE1-2; SVE1-3); ST4 (ST4-3; ST4-4); SVE2 (SVE2-2); ST5 (ST5-2); SVE3 (SVE3-1; SVE 3-2)

The unit develops activities in oenology and wine science, by a modern approach that integrates biochemistry, chemistry, phytochemistry, microbiology, process engineering and sensory analysis.

MANAGEMENT TEAM

Director (current contract): Mr Philippe Darriet; Deputy Directors: Mr Tristan Richard and Mr Patrick Lucas.

Director (next contract): Mr Patrick Lucas; Deputy Directors: Mr Philippe Darriet and Ms Warren Albertin.

UNIT WORKFORCE

Name of the unit: OENO

Active staff	Number 06/01/2020	Number 01/01/2022
Full professors and similar positions	12	15
Assistant professors and similar positions	18	19
Full time research directors (Directeurs de recherche) and similar positions	0	0
Full time research associates (Chargés de recherche) and similar positions	0	0
Other scientists ("Conservateurs, cadres scientifiques des EPIC, fondations, industries, etc.")	4	4
High school teachers	0	0
Supporting personnel (ITAs, BIATSSs and others, notably of EPICs)	25	27
Permanent staff	59	65

Non-permanent professors and associate professors, including emeritus	4	
Non-permanent full-time scientists, including emeritus, post-docs (except PhD students)	10	
PhD Students	28	
Non-permanent supporting personnel	5	
Non-permanent staff	47	
Total	106	65

GLOBAL ASSESSMENT OF THE UNIT

The OENO unit produces basic knowledge in all the disciplines of oenology and develops innovations transferable to the wine industry. The output of the unit as a whole is excellent based on number (300 original articles, 29 reviews) and quality of the publications (high ranking journals of the sector: *Food Chemistry*, *Analytical Chemistry*, *Analytica Chimica Acta*, *Food Microbiology*). The national and international reputation of the unit is also deemed as excellent since it plays a reference role nationally and internationally in the area of wine science and well highlighted by 21 national grants, six European projects (two Marie Curie actions of which one, as partner, is an ITN-internships for foreign PhD- and the second, as coordinator, is a RISE-Research and Innovation Staff Exchange) and 48 invitations to international conferences. Interactions with the non-academic world are outstanding with 137 contracts and ten patents. The scientific production and project proposals of the "Quality and Identity of Wines" axis are outstanding.

The unit has a strong commitment in disseminating scientific knowledge towards both, professional and public sectors through a span of actions (Réseau Mixte Technologique Quadiferm, MetaboHub, Unilabo, the launch of the International Viticulture and Enology Society (IVES) Technical Reviews, 90 articles in professional journals and 63 presentations at professional meetings). This contributes to the recognition of the unit and its members in the wine research area. The unit took full advantage of the professional environment to develop contracting research projects, potentially highly relevant to face new challenges such as climate change and ecological transition of viticulture and oenology.

The unit involvement in training through research is excellent, illustrated by the number of supervised PhD (66) and defended thesis (38), as well as by the current employment positions of the doctors (23).

The organization of the unit is very good, structured into three axes consistently with the skills and scientific objectives of the unit. In the next contract, the three axes structure will adopt a "team" mode of operation to decentralize the scientific direction of the unit, promote collegiality in decision-making, and facilitate the coordination of activities within the axes.

The scientific strategy of the unit is well developed, outcomes will strongly depend on how the three axes will be able to intensely work towards the completion of their integration process. The themes developed are well integrated in the TRANSFORM Department of INRAE and in the research field: Department "Environmental Sciences" from the University of Bordeaux. The proposed project is very ambitious and of high scientific quality. Resources from national agencies are secured, while Covid-derived economic crisis may affect the support from the private sector.

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