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## **Biochem-Env, a platform of environmental biochemistry for research in ecology and ecotoxicology**

Nathalie Cheviron, Virginie Grondin, Sylvie Nelieu, Olivier Crouzet, Mickael Hedde, Christian Mougin

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# Biochem-Env, the environmental biochemistry for Research

Chevron Nathalie<sup>1,2</sup>, Grondin Virginie<sup>1,2</sup>, Nélieu Sylvie<sup>1,2</sup>, Olivier Crouzet<sup>1,2</sup>, Mickaël Hedde<sup>2</sup> and Mougin Christian<sup>1,2</sup>

1. UMR ECOSYS, INRA, AgroParisTech, Université Paris-Saclay, plateforme Biochem-Env, 78026, Versailles, France  
 2. UMR ECOSYS, INRA, AgroParisTech, Université Paris-Saclay, 78026, Versailles, France

## GENERAL CONTEXT

The platform **Biochem-Env** is a technical platform of the infrastructure ANAEE-France dedicated to the study of continental ecosystems, terrestrial and aquatic.

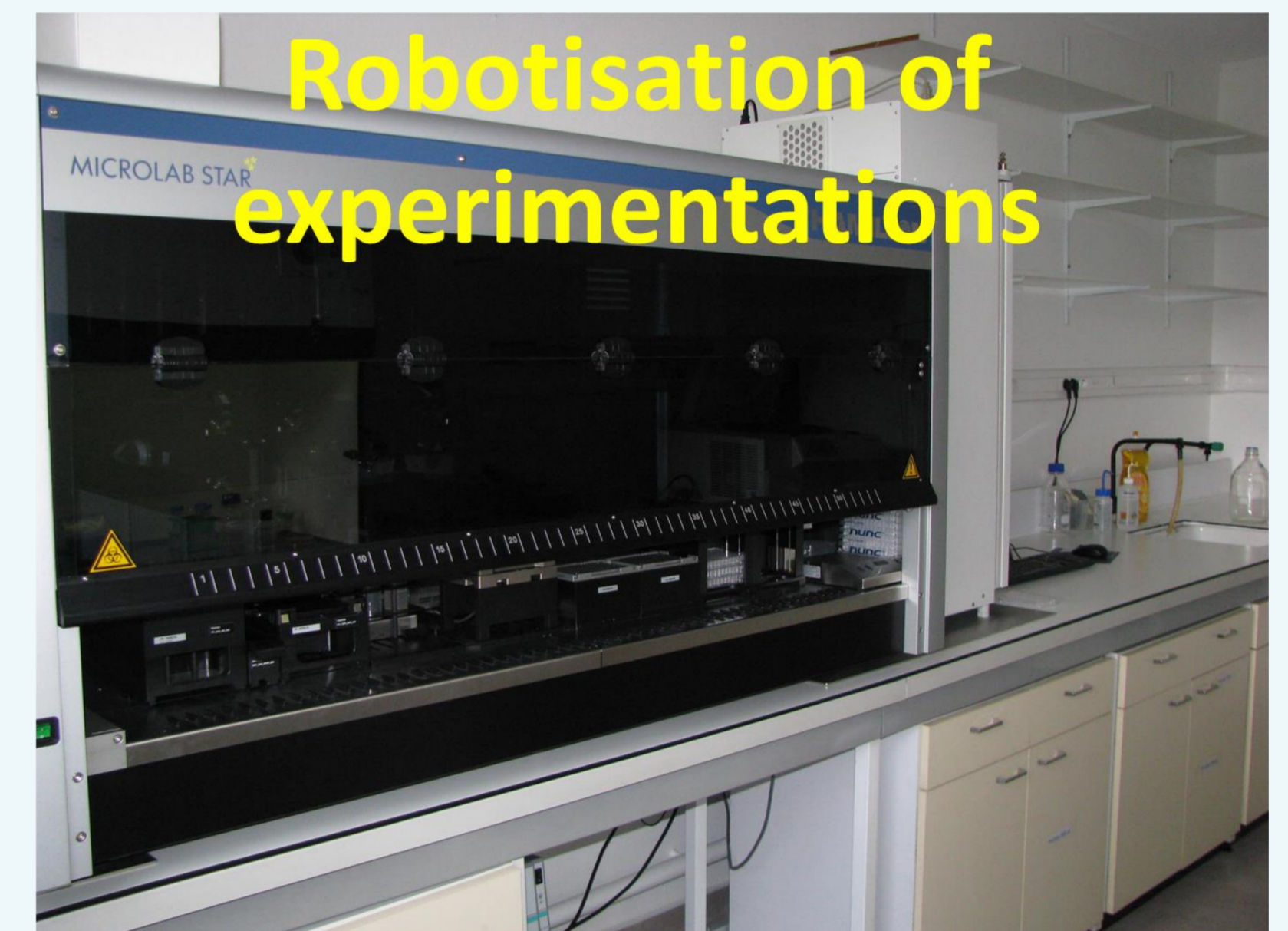
The platform **Biochem-Env** represents a strategic service for analysing ecosystems (soil, sediment, macrofauna) in the field of environmental biochemistry. Its equipment allows an increase of the analytical throughput, based on robotics, as well as on standardized protocols.



L2 laboratory

## INNOVATION FOR ENVIRONNEMENTAL BIOCHEMISTRY

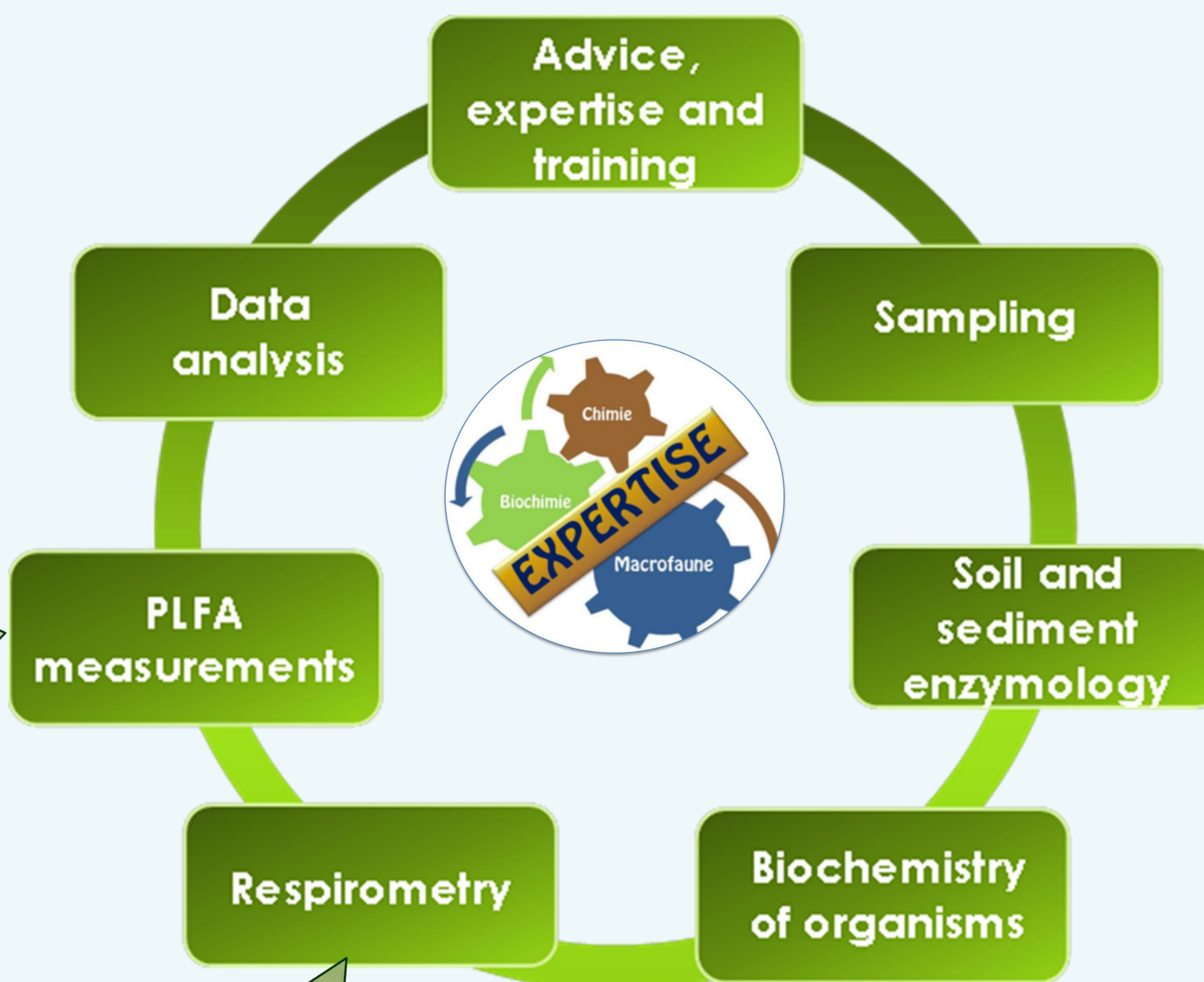
Feasibility study, help for project building,



Robotisation of experimentations

Membrane components as a tool to differentiate sites of evidence stresses  
 (Bioindicator program, Site of Yvetot, ESITPA)

**Lipidic indicators**



Enzymatic activities of biogeochemical cycles  
 (SOERE PRO, Site of Qualiagro, INRA, UMR EGC)

organic amendements and biological functioning of soils

**Metabolism**  
 Carbon mineralization and OM gradient after irrigation for 80 years

$r$  (spearman) = 0,927  
 $p$ -value = 0,00012

**Biomarkers and metabolic indicators**

**Catalase**  
**AChE**  
**Lipids**



## EXEMPLES of APPLICATIONS



### TEAM

- 1 Engineer
- 2 technicians
- 3 scientific experts
- 3 QHSE experts
- 1 IT specialist



### Biochem-Env

UMR ECOSYS  
 INRA, Route de St-Cyr  
 F-78026 VERSAILLES cedex  
[www.biochemenv.fr](http://www.biochemenv.fr)



### CONTACTS

**Christian Mougin**  
[christian.mougin@versailles.inra.fr](mailto:christian.mougin@versailles.inra.fr)  
 +33 1 30 83 37 58  
**Nathalie Chevron**  
[nathalie.chevron@versailles.inra.fr](mailto:nathalie.chevron@versailles.inra.fr)  
 +33 1 30 83 39 87