



## Biochem-Env, une plateforme leader en biochimie environnementale

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### ► To cite this version:

Christian Mougin, Nathalie Cheviron, Virginie Grondin, Anne Jaulin, Jean Pierre Petraud, et al.. Biochem-Env, une plateforme leader en biochimie environnementale. Le SEM 2018, Forum Santé, Environnement & Molécules, Oct 2018, Alixan, France. 2018. hal-02786219

HAL Id: hal-02786219

<https://hal.inrae.fr/hal-02786219>

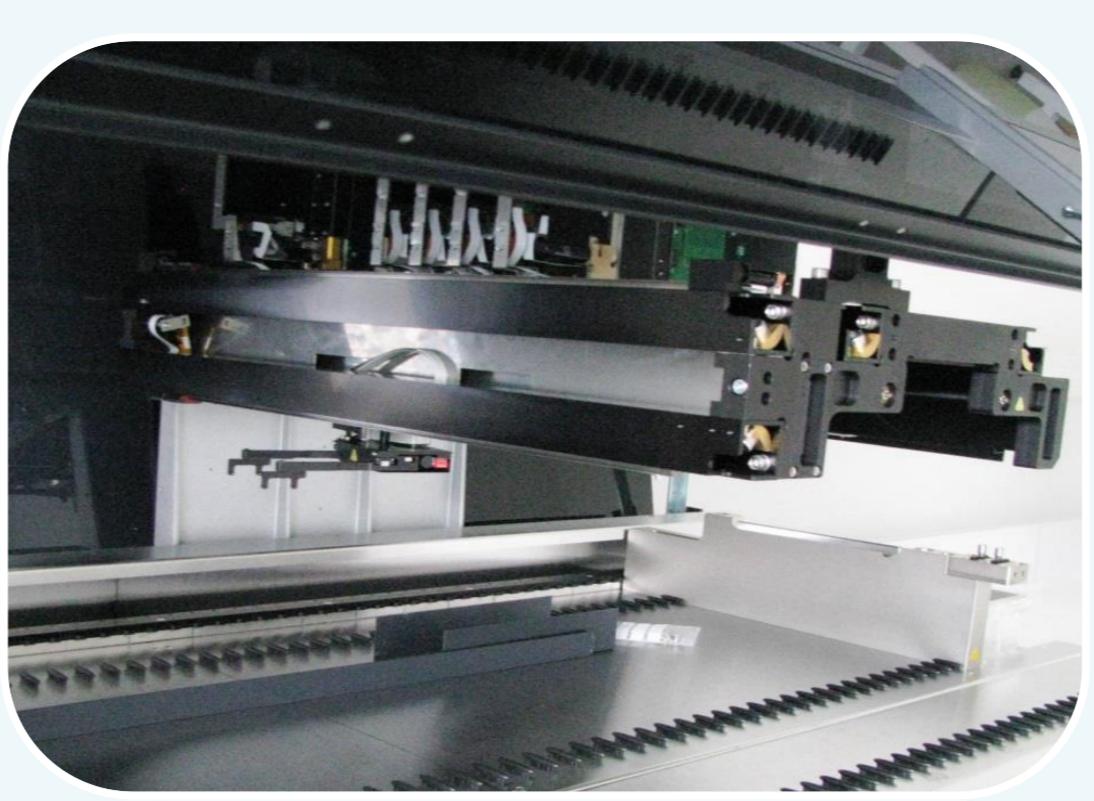
Submitted on 4 Jun 2020

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# Biochem-Env, the environmental biochemistry for Research

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## Context

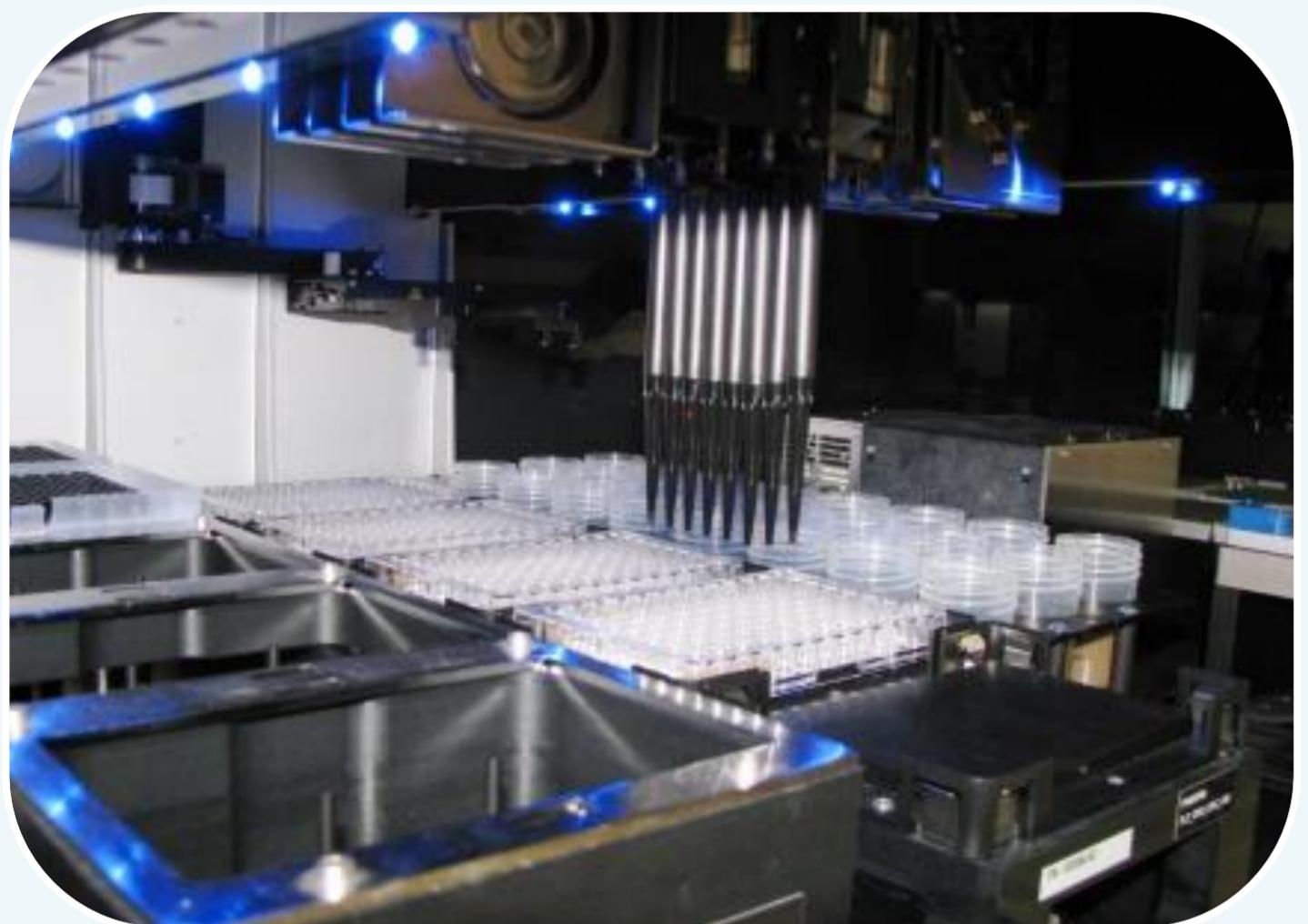
**Biochem-Env** is a scientific and technical platform of the infrastructure ANAEE-France dedicated to the analysis and experimentation on continental ecosystems, terrestrial and aquatic.

**Biochem-Env** represents a strategic service for analyzing ecosystems (soil, sediment, macrofauna...) in the field of environmental biochemistry, for agro-environmental research.



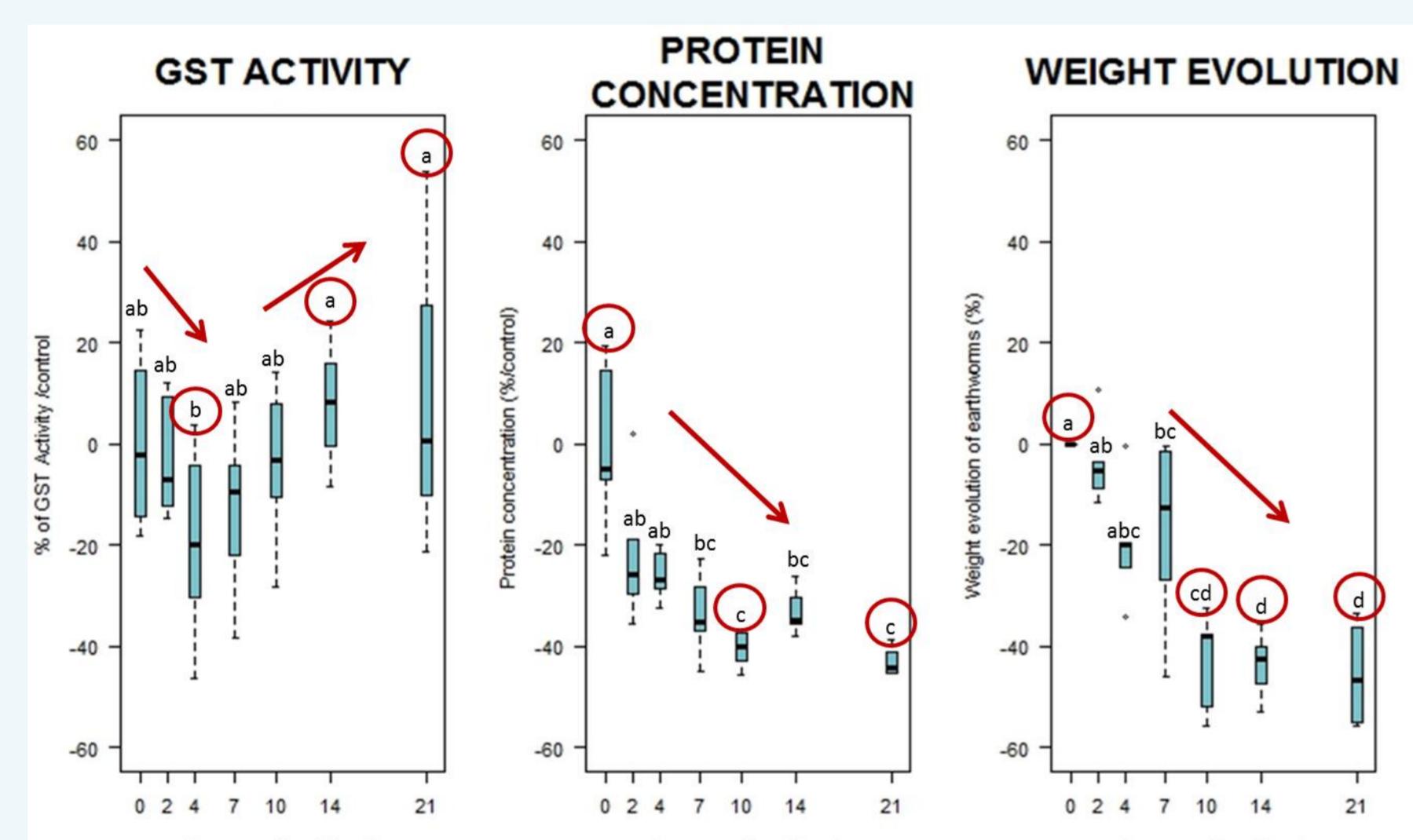
## Innovation for environmental biochemistry

- Use of robotics to increase the flow of analyses, measurement accuracy and repeatability
- Development and use of standardized methods
- Development of a mobile lab
- Quality management system
- Open Science



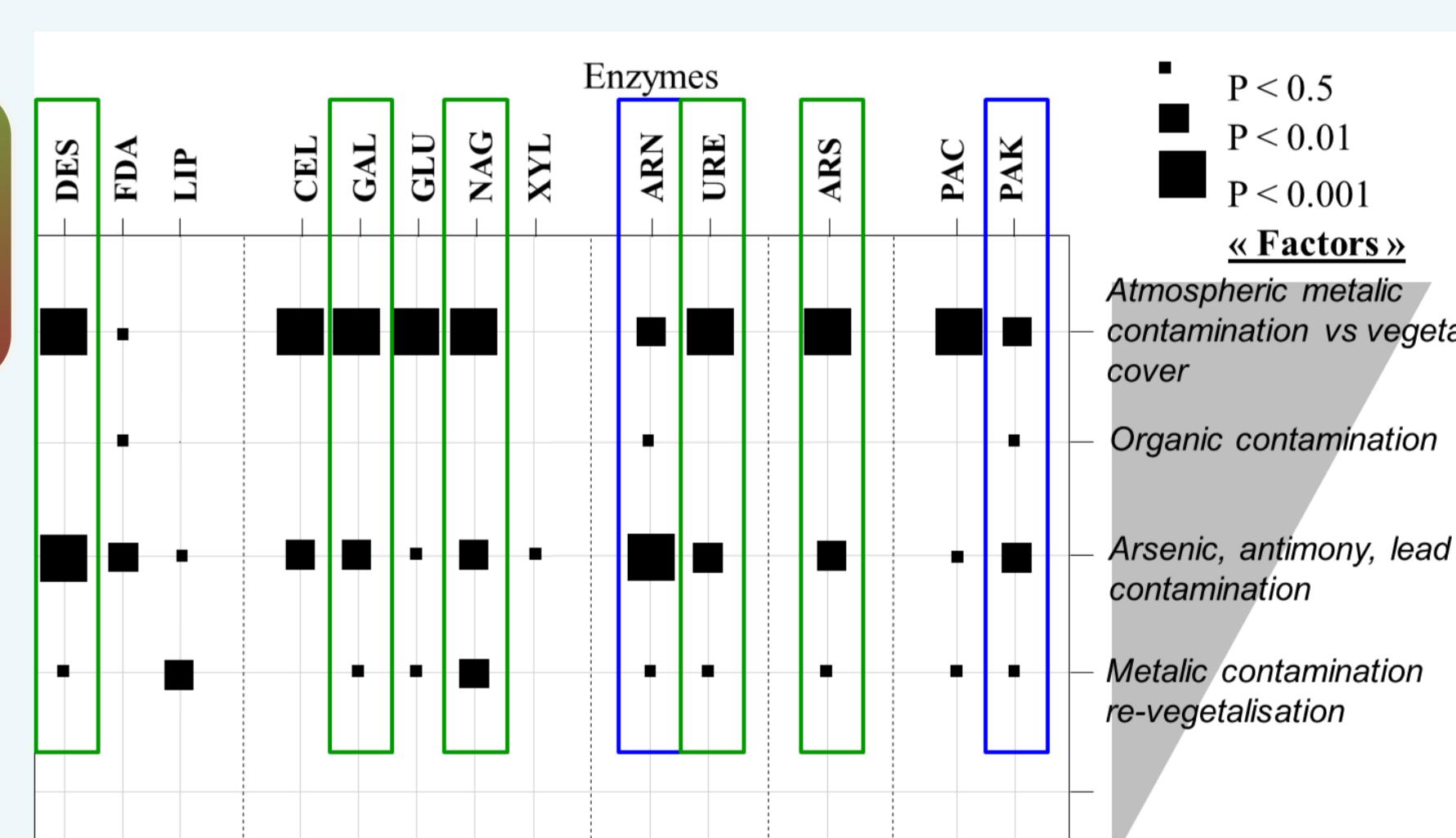
### Responses of earthworms exposed to the insecticide Cypermethrin at 10 agronomic doses

> Significant effects of the time of exposure



### Impacts of chemical contamination on soil enzymatic activities

> Metals are more active than organics



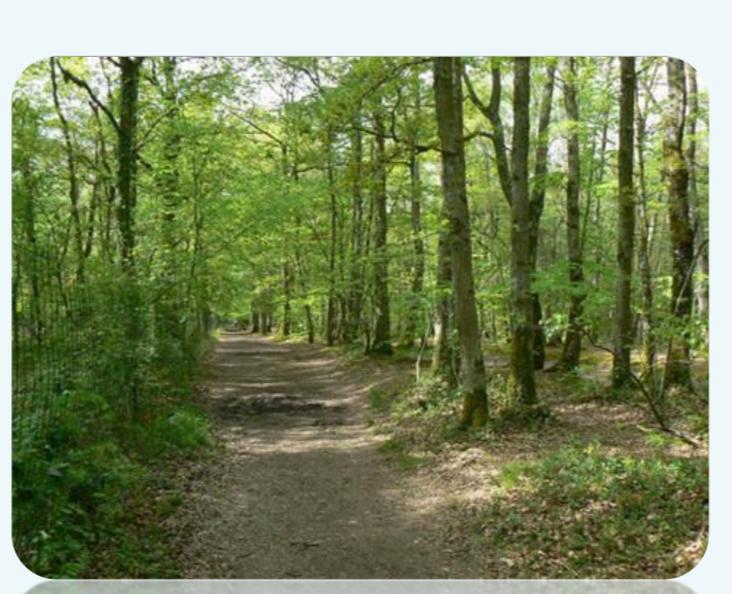
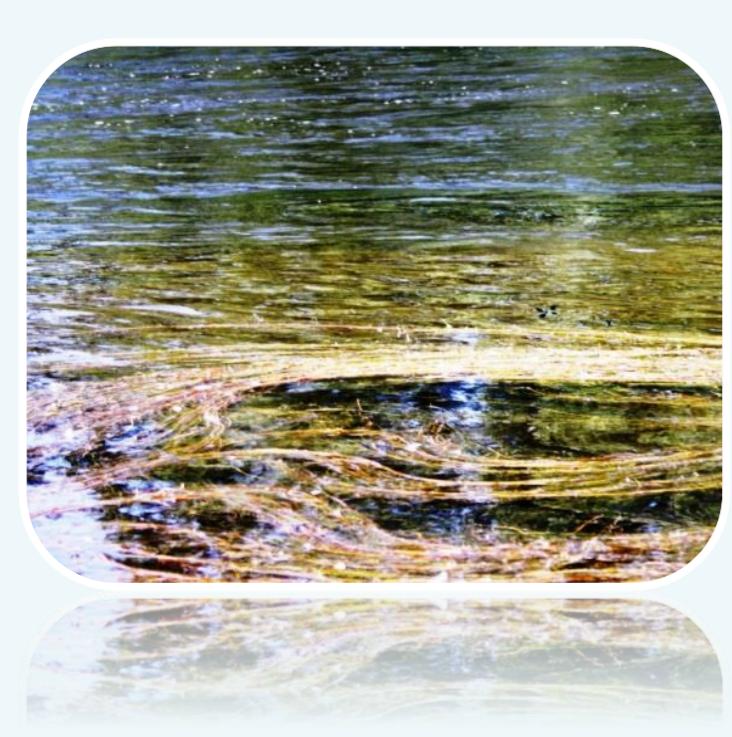
## Biochemical indicators measured

### In soils and sediments

- Enzymes involved in biogeochemical cycles and the metabolism of macromolecules
- Indicators of metabolic activity

### In invertebrates

- Energetic reserves and macromolecules
- Enzymes of the oxidative stress
- Enzymes of detoxification



## Biochem-Env

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