



**HAL**  
open science

## **RECOTOX, une initiative en éco-toxicologie pour suivre, comprendre et réduire les impacts des pesticides dans les socio-agro-écosystèmes**

Christian Mougin, Véronique Gouy, Vincent Bretagnolle

### ► **To cite this version:**

Christian Mougin, Véronique Gouy, Vincent Bretagnolle. RECOTOX, une initiative en éco-toxicologie pour suivre, comprendre et réduire les impacts des pesticides dans les socio-agro-écosystèmes. Le SEM 2018, Forum Santé, Environnement & Molécules, Oct 2018, Alixan, France. 2018. <hal-02786051>

**HAL Id: hal-02786051**

**<https://hal.inrae.fr/hal-02786051v1>**

Submitted on 4 Jun 2020

**HAL** is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



Distributed under a Creative Commons CC BY-SA 4.0 - Attribution - ShareAlike - International License

# RECOTOX: AN INITIATIVE IN ECOTOXICOLOGY-TOXICOLOGY to monitor, understand and reduce the impacts of pesticides in socio-agro-ecosystems

**Christian Mougin<sup>1</sup>, Véronique Gouy<sup>2</sup>, Vincent Bretagnolle<sup>3</sup>**

<sup>1</sup>UMR ECOSYS, INRA, AgroParisTech, Université Paris-Saclay, 78026, Versailles, France

<sup>2</sup>UR MAEP, Irstea, 69626, Villeurbanne cedex, France

<sup>3</sup>UMR CEBC, CNRS & Université de La Rochelle, 79360, Beauvoir sur Niort, France

[contact-recotox@inra.fr](mailto:contact-recotox@inra.fr)

## • Why RECOTOX?

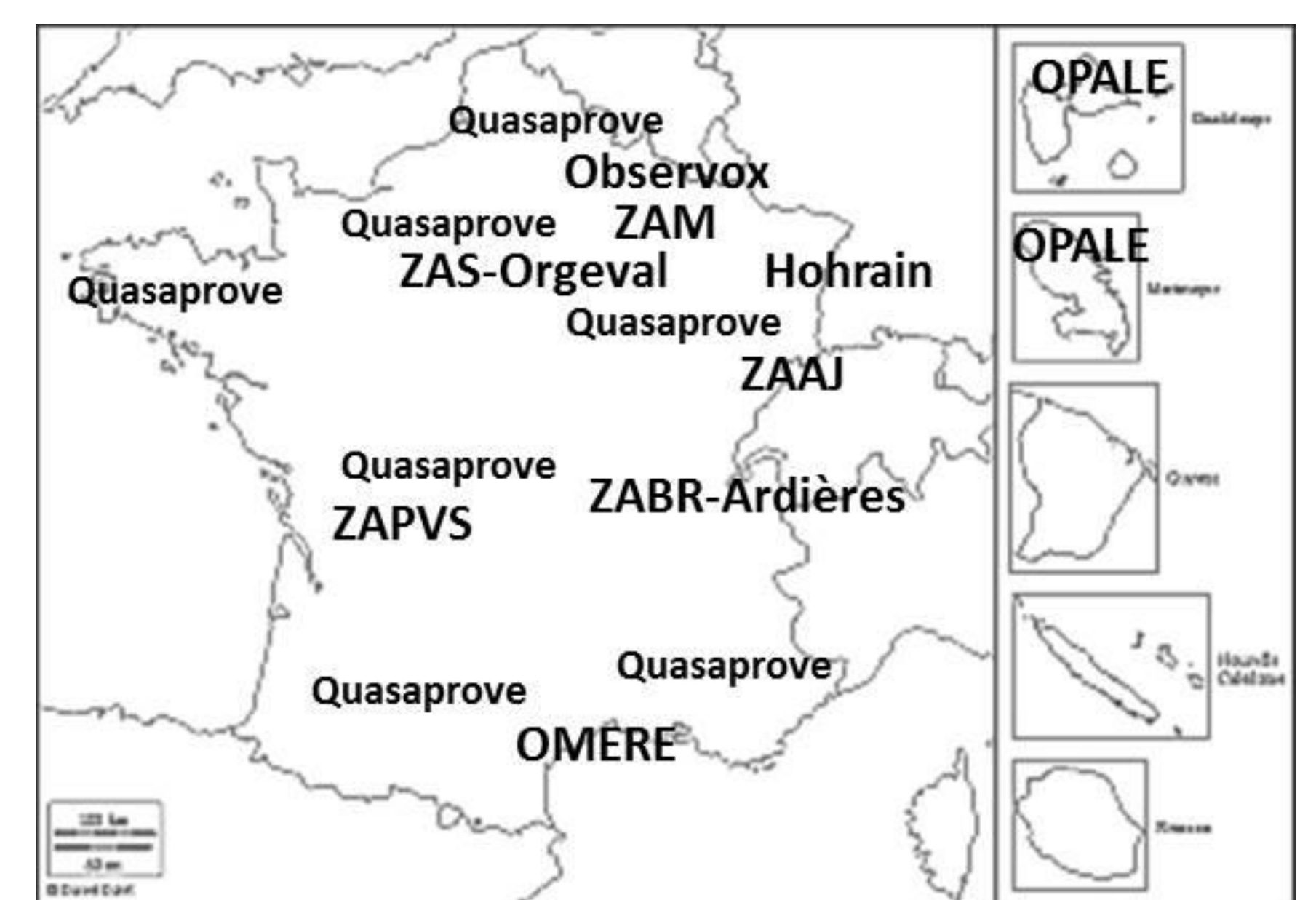
For many years, the scientific community has pointed out the **lack of long-term field and large-scale monitoring** of the **effects of chemicals** on ecosystems. In addition, the ecotoxicological studies carried out involve protocols often **far away from the conditions of the real world**. Hence, our capacity to elucidate and predict such effects remains limited.

In this respect, RECOTOX aims at:

- promoting **transversal and integrated research** to answer the scientific challenges of understanding and anticipating the environmental and health impacts of pesticides and biocides,
- analyzing the **whole chain “pressures-exposures-impacts”** by coordinating and increasing the ***in natura* observation** and **experimentation** dedicated to ecotoxicology and toxicology,
- sharing between its constitutive observatories/sites a **common culture** around ecotoxicology

## • What is RECOTOX?

RECOTOX is an initiative including observatories or sites belonging to Research Infrastructures, (AnaEE-F, OZCAR, LTSER-ZA), several experimental units of the network RMT Quasaprove and observatories depending on universities. They provide various and complementary agro-pedo-climatic situations.



## • A scientific project

The scientific project of RECOTOX is organized in 5 WPs:

- promotion and organization of a transversal and integrated research on the chain “pressures-exposures-impacts”,
- development of multi scale approaches, from the plot to the landscape, in diverse media (soil, water, air, biota)
- development of innovative experimental or measurement methods, standardization,
- development of a focal point for data management and distribution to scientists and stakeholders,
- communication, dissemination and exploitation of results, training.

## • A transversal ambition

RECOTOX interacts with the major structures and scientific networks and infrastructures dealing with **environmental sciences** and **ecotoxicology**.

