



BRC4Env, the Biological Resource Centre for the Environment

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► To cite this version:

Christian Mougin, Emmanuelle Artige, Frédéric Marchand, Samuel Mondy, Bernard Montuelle, et al.. BRC4Env, the Biological Resource Centre for the Environment. Colloque de prospective Surfaces et Interfaces Continentales et Ecosphère: Quelles priorités pour la recherche?, Oct 2017, Paris, France. 2017. hal-02786212

HAL Id: hal-02786212

<https://hal.inrae.fr/hal-02786212>

Submitted on 4 Jun 2020

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BRC4Env, the Biological Resource Centre for the Environment

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• The network of Biological Resource Centres BRC4Env

BRC4Env is a **network of Biological Resource Centres** and **collections**, one of the 5 **specialized pillars** of the French **Research Infrastructure AgroBRC** (Ressources Agronomiques pour la Recherche).

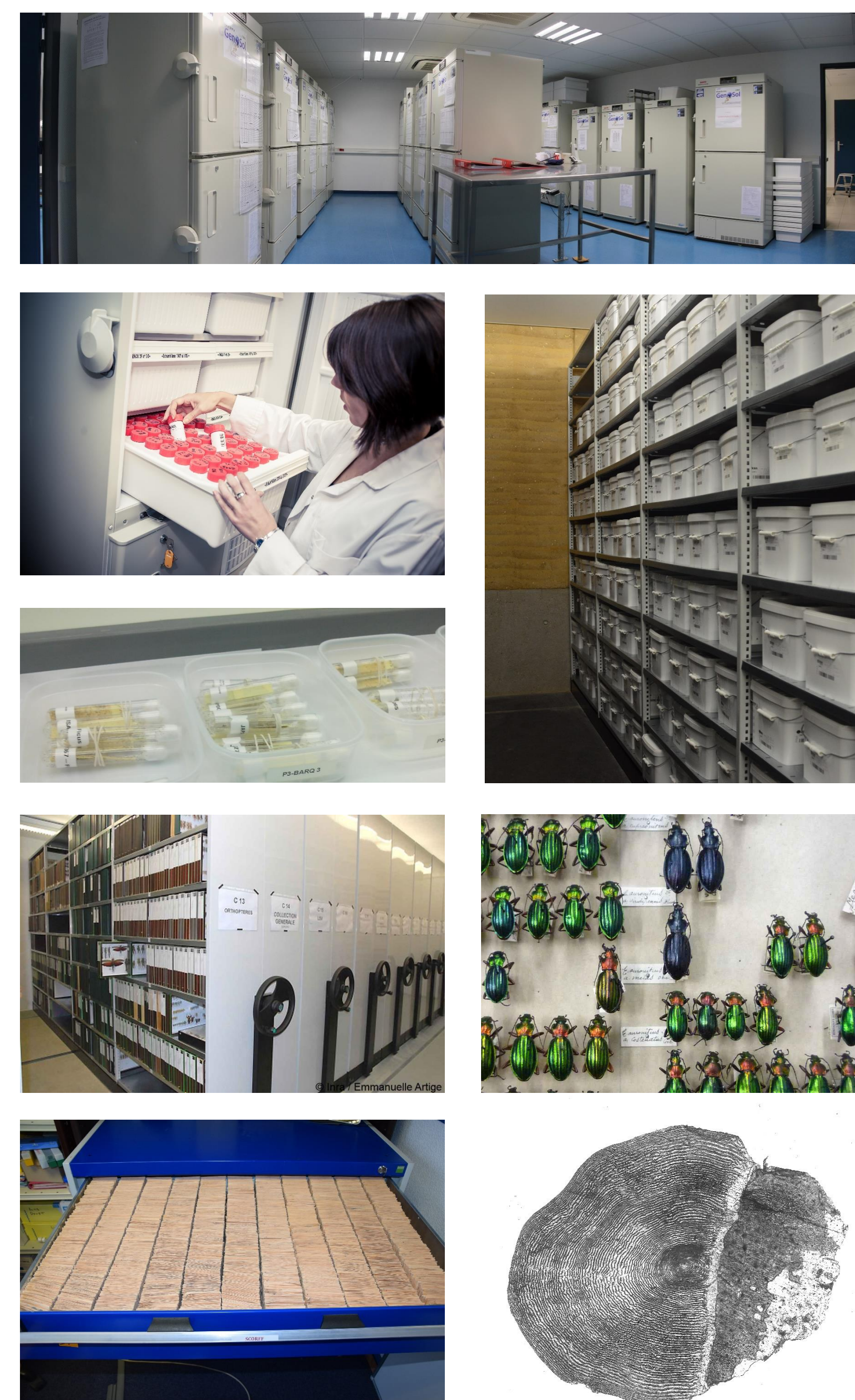
BRC4Env aims at **providing** a strategic **delivery of agro-environmental bioresources** for excellent and large-scale, fundamental and applied **research in environmental and agricultural sciences** in Europe. These biological and/or genomic resources are sampled from **soils, sediments, waters, agricultural and forest ecosystems...** and preserved in organized collections. They actually include microbial consortia, animal (invertebrates and vertebrates) resources. BRC4Env provides these resources available for researchers from academia, but also industry, technology and additional sectors. Total amount of samples within the BRCs and collections of the network is higher than 1250000.

• The Biological Resource Centres of BRC4Env

BRC4Env actually comprises 4 main BRCs:

- The Centre for **Soil Genetic Resources** of the platform **GenoSol** associated with the **European Centre for Soil Conservation**, a national BRC for soils **unique in Europe** for the storage and conservation of genetic resources (DNA),
- The Biological Resource Centre **Egg Parasitoids Collection** “Ep-Coll”, that aims to collect, characterize, maintain, investigate and share egg parasitoids strains,
- The **Terrestrial Arthropod Collection** based insects and mites, comprising series of specimens gathered from all over the world during the last 50 years, preserved dry or in fluid and DNA extracts,
- The historical collection of **fish scales and tissues** “Ichthyological samples”, merging historical samples collected by various research units and long-term observatories , and by “Agence Française pour la Biodiversité”.

BRC4Env comprises several other biological collections (small mammals, nematods...)



• Associated analytical platforms and access to ecosystems



Analytical platforms are associated to BRC4Env for **sample characterization**, in:

- Environmental genomics, **GenoSol**
- Environmental chemistry, **Platinaae**
- Environmental biochemistry, **Biochem-Env**
- Cellular et molecular imaging, **Dimacell**

Platinaae

Dimacell

Access to ecosystems and **in natura sites** is allowed by:

- The Research Infrastructure **AnaEE-France**
- The research sites network in ECOTOXICOLOGY-TOXICOLOGY **RECOTOX**

RECOTOX