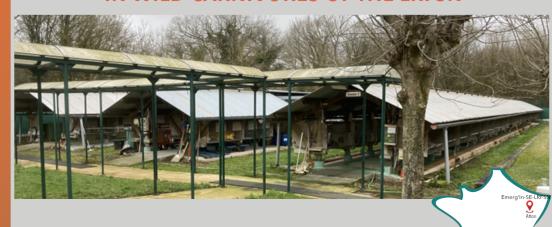


Research infrastructure for the control of animal and zoonotic emerging infectious diseases through *in vivo* investigation.

## FACILITY FOR EXPERIMENTAL STUDIES IN WILD CARNIVORES OF THE LRFSN



The facility for experimental studies in wild carnivores of the LRFSN (Nancy Laboratory for Rabies and Wildlife ) provides unique opportunities to understand *in vivo* host/pathogen interactions in endemic wild species susceptible to transmit major zoonotic pathogens under « One Health » objectives.

The LRFSN animal facility based in Atton is dedicated to host **experimental studies with wild canids** (foxes, raccoon dogs), **mustelids** (badgers, ferrets), **procyonidae** (raccons) and **wild rodents**. The facilities benefit from husbandry areas, sample collection/surgical procedures and laboratories at **biosafety levels 2 and 3**.





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https://anses.fr





Experienced handlers and veterinarians hold the suitable authorizations for **trapping animals from the wild**. They provide the **best welfare conditions** to the wild animals, both at capture in the wild or under captive carnivore's conditions.

The facility for experimental studies in wild carnivores attract a large number of innovative projects and leading edge in infectiology and toxicology through national and international partnerships.



## A device dedicated to infectious disease and wildlife toxicology



In vivo host-pathogen interactions focusing on pathogenicity and cross-species transmission:

- Infectious challenges (virus, bacteria, parasites) on wild and captive carnivores (foxes, raccoon dogs, badgers, ferrets).
- Immune responses.
- Protective responses of vaccine candidates.

## Specialised expertise for handling wild carnivores:

- @ Trapping in the wild of European species (badgers, rodents, bats, etc...).
- Local and general anesthesia.
- Experimental infection and sample collection in wild and captive animals.





Facilities suitable for large cohorts of wild carnivores, either in groups or isolation, at biosafety levels 1, 2 and 3:

- 206 m² in covered areas suitable for non-aerosolised pathogens.
- 285 m² of BSL 1.
- 88 m² of BSL 3.

## A large collection of unique samples:

- From captive animals (different species/ age/ sex/ infectious agents).
- Taken from the wild of these same species for real epidemiological monitoring.





Capacity for immunological and molecular analysis of blood and tissue samples (on site and LRFSN laboratory ):

- Behaviour (through telemetry).
- Peripheral immune responses (cellular and serological).
- Molecular diagnostic.







