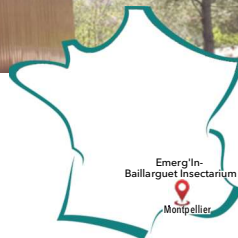


BAILLARGUET INSECTARIUM PLATFORM



Cirad, Campus international
de Baillarguet
34398 Montpellier - France

[www.vectopole-sud.fr/
plateformes/insectarium-de-
baillarguet/](http://www.vectopole-sud.fr/plateformes/insectarium-de-baillarguet/)



The **Baillarguet insectarium platform** is a structure dedicated to understanding vector-borne transmission and vector control.

It is managed by the ASTRE (Cirad, INRAE) and InterTryp (Cirad, IRD) Joint Research Units.

It is a tool integrated into Vectopole Sud, a Montpellier-based network of platforms for research on arthropods of medical, veterinary and agricultural interest.

Located on the Cirad site (Baillarguet Campus), the 112 m² insectarium, operating at **biosafety level 2**, was designed to rear various non-infected arthropod vector species:

- Ticks
- Tsetse flies
- Mosquitoes

The insectarium is also **connected to BSL2 (laboratory and animal house) and BSL3 (laboratory) infrastructures** allowing investigation of infected or non-infected arthropods.

This platform dedicated to research, referenced at the national and international level, is open to academic and industrial partners, both nationally and internationally.

A tool to respond to the major health challenges for countries in the global North and South



Dedicated to understanding vector-born transmission and vector control:

- Rearing arthropods
- Developing molecular tools for the taxonomy and diagnosis of pathogens
- Studying arthropod life history traits to understand their bio-ecology
- Studying vector competence through experimental infection with pathogens
- Developing innovative vector control methods and assessing biocides

Vectors models of importance to animal and human health:

- Tsetse flies human and animal African trypanosomiasis
- Mosquitoes of the genera *Aedes* and *Culex*: West Nile, Dengue, Zika, Chikungunya
- Ticks: African swine fever, Crimean Congo hemorrhagic fever
- *Culicoides*: bluetongue, African horse sickness, Schmallenberg virus



Biosafety Level 2 facilities:

- 7 multi-purpose temperature and humidity-controlled rooms with controlled lighting
- 2 rooms fitted with climate chambers for tick rearing and studies of life history traits
- The insectarium is also connected to level 2 animal houses and level 2 and 3 laboratories

Products and services:

- Weeks of access to the platform
- Supply of arthropod batches: tsetse flies, mosquitoes, hard and soft ticks
- Personalized training: vectors rearing, experimental infections, arthropods identifications



A referenced platform:

- On an international level by
FAO (Food and Agriculture Organization of the United Nations)
IAEA (International Atomic Energy Agency)
OIE (World Organization for Animal Health)
- On a national level by
DGAL (French food standards agency)
EMERG'IN
Vectopole Sud

