



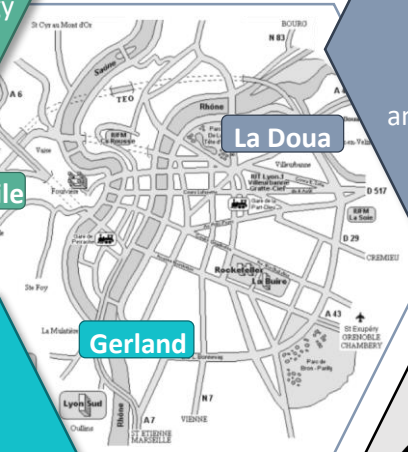
# InfectioTron

EquipEX+

A unique place to study pathosystems from the field to the lab



3 campuses for a unique & integrated Global Health approach of infectious diseases



## A veterinary approach

Institut Claude Bourgelat

- Wild bat rearing facility
- Hematology-biochemical analysis

Institut Claude-Bourgelat



RS2GP

- Automated wild rodent rearing & monitoring facility (**Rodentodrome**)

Pôle EVAAS

- L3 autopsy facility with autoclave (wildlife epidemiology)

EVAAS



## A mecanistic approach

SFR Biosciences



- Gnotobiotics boxes for wild animals (study of host microbiota in rodents & arthropods)
- BSL3 *in vivo* & *in toto* live imaging systems (**IVIS spectrum**) to visualize pathological factors
- Incucyte live cell imaging for time-lapse analysis of viral/bacterial infections

ENS

- Cryo electron microscope

## Campus VetAgro Sup



Epidemiology & pathophysiology of endemic or emerging infectious diseases in wildlife

## Bodistrict Lyon-Gerland



Characterization of pathogens  
Cellular / molecular interactions in host-pathogen symbionts

## Campus LyonTech - La Doua



Diagnosing pathogens & analysis of the natural cycles of pathogens (focus on arthropods and plants)

## InfectioTron in numbers

**4,4 M€** **10 Research Units**  
**3 university campuses**  
**4 platform federations**

## An ecological and evolutionary approach



Symbiotron / DTAMB

- High-throughput automated molecular diagnostic of infectious samples from extraction to PCR (tissues, blood, plants, whole arthropods...)

- Thunder 3D live Imager in BSL3 for high resolution images of living processes

- Structural information on isolated macromolecular complexes
- Study of host-pathogen interactions in 3D at the nanometer scale
- Study of dynamic processes in combination with light microscopy

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