

From invention to innovation

SCIENTIFIC EXPERTISE

- Surgery, pre- & post-operative follow-up, healing studies, imaging, etc.
- Development of surgical and pathological models
- Infectious diseases (bacterial, viral, fungal and parasitic)
- Histology and functional characterization, anatomo-pathology
- Biology and pharmacology of nerve and cardiac functions
- Reproductive biology and biotechnology

APPLICATIONS

- Facilities and recognized know-how of ENVA teams (surgeons, scientists, technicians, etc.)
- Operating rooms, post-operative care, housing animals in biosafety level BSL1 to 3 confinement conditions

TRACK RECORD

- Schuler : cardiac study on pigs for a defibrillator development
- Carmat : surface treatment study for artificial heart prototypes
- Brotier : rabbits hemostasis analysis for healing improvement molecules
- Teraclion : ultrasound tumor ablation tests
- International academic collaborations : NYU, Malmo University, Fukushima University

PUBLICATIONS

Crémieux AC. et al. J Infect Dis 2014.
 Donadieu E. et al, PLoS One 2013.
 Salvatore C. et al., J Neurosci Rural Pract 2013.
 Jimbo R et al, J Periodontol 2013.

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PRECLINICAL AND SURGICAL RESEARCH FACILITY

Animal experiments conducted to investigate physiological processes, develop therapeutic products & techniques and control product safety.

Preclinical research ■ Animal models ■ Animal surgery ■ infectious diseases ■ Implantable medical devices ■ Biosafety conditions ■

SERVICE DESCRIPTION

The platform is specialized in conducting fundamental research and preclinical trials requiring the use of animals (<50kg) up to biosafety level BSL3. Those studies are critical to ensure the best success when transferred to human.

Its location on the ENVA site (National Veterinary School of Alfort) guarantees access to the best medical techniques and expertise in the fields of infectious diseases, implantable biomaterials, anatomo-pathology, etc.

Using the large numbers of clinical cases which are treated at ENVA, the platform places great importance upon clinical research concerning various diseases.



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OFFER

- Animal model preclinical trials (<50kg): rodent, rabbit, dog, cat, bird, sheep, goat, calf, pig, etc.
- Medical devices and implantable biomaterials development
- Vaccines and molecules assays (biocompatibility, safety, efficacy, toxicity, pharmacokinetics, etc.).