

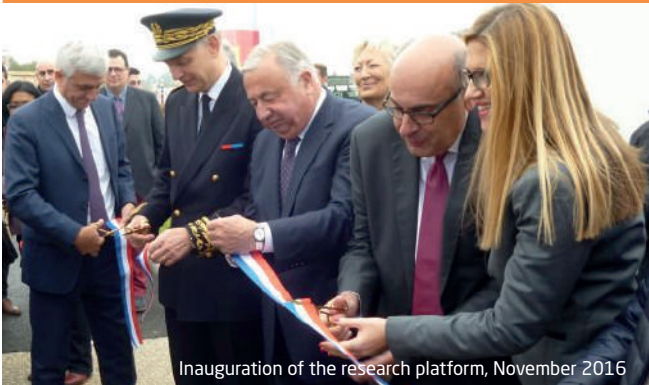
## A UNIQUE COLLABORATIVE PLATFORM DEDICATED TO THE HORSE'S HEALTH

Inaugurated on November 4th, 2016 by Mr Gérard LARCHER, President of the Senate, the equine research platform is located next to LABÉO Frank Duncombe at Saint-Contest (14).

With a 1000 m<sup>2</sup> area, the platform offers infrastructure and research equipment which are unique in the field of biotechnology and equine health.

This platform hosts researchers from LABÉO, the research unit BIOTARGEN (Université Caen Normandie) and the RESPE (Network for Epidemio-Surveillance of Equine Diseases). These teams work synergistically and share a large collaborative network worldwide

This research platform is also intended to shortly host start-up dedicated to biotechnologies for equine industry.



Inauguration of the research platform, November 2016

### Project cofounded by :



UNION EUROPÉENNE  
Ce projet est cofinancé par le Fonds européen de développement régional



Fonds Éperon



RÉGION  
NORMANDIE



Calvados  
LE DÉPARTEMENT

## Equine Research Platform

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Please visit the websites :

LABÉO : [www.laboratoire-labeo.fr](http://www.laboratoire-labeo.fr)

Biotargen : [www.biotargen.unicaen.fr](http://www.biotargen.unicaen.fr)

RESPE : [www.respe.net](http://www.respe.net)



## Equine Research Platform Excellence for equine healthcare



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Conception and realisation : External Communication LABÉO.  
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Do not throw on the public highway.



Pôle d'analyses et de recherche  
de Normandie



Réseau d'épidémiologie-surveillance  
en pathologie équine



UNICAEN  
UNIVERSITÉ  
CAEN  
NORMANDIE



UNIVERSITÉ  
CAEN  
NORMANDIE

# Excellence for equine healthcare

A platform at the cutting edge of technology :



**350 m<sup>2</sup>**

of tertiary space, with metting room, videoconferencing



**670 m<sup>2</sup>**

of confined technical area to be mutualised (L1, L2 and L3)

## Lines of research :

- > Locomotor and respiratory disorders
- > Cell & tissue engineering
- > Inflammation & immunity
  
- > New diagnostic strategies (biomarkers ...)
- > Innovative therapeutic options (antiviral drugs ...)
  
- > Identification of (viral/bacterial) bio-resistances
- > Risk-factors for mild/severe equine asthma
- > Epigenetics & articular pathophysiology



## MUTUALISABLE TECHNOLOGY

- **Eclipse Ti Microscope** : Inverted fluorescent microscope
- **Incucyte** : platform for imaging alive cells
- **xCELLigence** : real time measuring system for cellular activity by broadband impedancemetry
- **BioFlux** : microfluidic system for dynamic cell culture
- **MagPix** : Luminex technology
- **Flexible real time thermocycler**
- QuantStudio™12K Flex** : performing quantitative PCR, multiplexing, digital PCR
- **UPLC-MS/MS QqQ** : Molecules characterisation, identification and quantification ...

## DEVELOPMENT OF THE EQUINE INDUSTRY

Osteoarticular and respiratory troubles



Biomarkers



## INTERNATIONAL PARTNERS' NETWORK

**BTC**  
BIOTARGEN

**UNCAEN**  
UNIVERSITÉ CAEN NORMANDIE

**RESPE**  
Réseau d'épidémiologie en pathologie équine

**LABÉO**  
Pôle d'analyses et de recherche de Normandie

Epidémiologie-surveillance



One Health



Fight against bioresistance



Inflammation and immunity



## SCIENTIFIC EDUCATION

- 7 HDR (Accreditation to supervise Research)
- Veterinarians, biologists, engineers ...
- Graduate and post-graduate students
- Bachelor's degree +2 to +5

## TRANSLATIONAL RESEARCH for clinical applications



## SCIENTIFIC SYNERGY



## INDUSTRIAL ATTRACTIVENESS

- Eligible for CIR (research tax credit)
- Locations for start-ups
- CIFRE thesis (Industrial Research Training Agreement)
- Plug & Work labs

