

## About Us

PAIRImmune is a Contract Research Organization (CRO) specialized in immunology evaluation for vaccine and immunotherapy development. We offer to our clients a scientific methods combined with a biopharma expertise to move forward early biological products.

PAIRImmune is more than a preclinical CRO. Based on *in vivo* and *in vitro* expertise, we build for our clients an adapted solution for their project. All of this for the benefit of our industry, academic and small biotech sponsors



In-vivo studies are performed into the CNBE AAALAC approved facility. The facility offer the possibility to work in biosafety level II environment .



PAIRImmune head office is located in NEOMED institute facility .



*A Preclinical CRO  
for early Proof of  
Concept studies with  
adapted immune  
readouts*



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*In the fields of obseration  
chance favors only the  
prepared mind*

*Louis Pasteur*

# *PAIRimmune is a Pre-Clinical Solution for Vaccine and Immunotherapy Evaluation*

## In-Vivo expertise

### Species

Mice  
Rat  
Cotton Rat  
Hamster  
Guinea Pig  
Rabbit  
Chicken  
Ferret  
Dog  
Pig (micro, mini and large)  
Non-Human Primate  
Sheep  
Goat

### Administrations Routes

PerOs  
Sublingual  
Gavage  
Pills  
Intramuscular  
Intradermal  
Intranasal  
Intracranial (stereotact)  
Subcutaneous  
Intravenous

### Sample Collections

Necropsy (all organs or fluids and washes)  
Biopsy (with ethical restriction)

## Study type

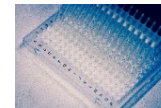
### Immunotools

mAb and Polyclonal Antibodies production  
Characterization for WB, IHC...

### Immunity (active and passive)

Antigen specific IgG by ELISA  
Antigen specific IgA by ELISA  
Antigen specific IgE by ELISA  
Cell mediated immunity by Flow cytometry (cytokine production)

Delayed type hypersensitivity  
Opsono-Phagocytosis  
Cell Mediated cytotoxicity  
Proliferation  
Differential count  
TILs  
Innate immunity readouts  
Immune checkpoints readouts .



### Reactogenicity

Systemic (T° and clinical signs)  
Local tolerance (scoring)

### Efficacy

Viral and bacterial challenge  
Tumor growth

## Other Therapeutic models

Nucleotides based immunotherapy  
Peptides and recombinant proteins

## Expression Pattern

Immunohistochemistry  
ELISA  
Western Blot

## Consulting

Study design  
Animal Protocol writing  
Assay Development  
Method Transfer  
Technology Evaluation  
Data Analyses  
Expert Scientist services

