Powered by
a unique expertise in
cell and gene therapy,
genome editing,
translational research

3 FOUNDING PARTNERS



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1 ACADEMIC MISSION

RÉPUBLIQUE FRANÇAISE
Liberté
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Fraternité
Inserm
La science pour la santé
From science to health

GenoTher
Gene Therapy Biocluster

FRANCE 2030
INTEGRATOR NETWORK
BIOTHERAPY BIOPRODUCTION

www.genother.org

www.art-tg.com

anr agence nationale de la recherche

Contact us

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GenoTher
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Genomics & Genome Editing Quality Control Platform

to bring safer lentiviral or CRISPR gene therapies to patients



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PART OF GENOTHER

GenoTher
Gene Therapy Biocluster

A biocluster dedicated to accelerate genetic medicine from research to patients connecting the expertise, capabilities and resources needed to move health innovation forward.

As part of GenoTher, our platform brings :

Specialized expertise in genomics and genome editing quality control

Advanced capabilities to characterize and de-risk genetic medicine projects

A **direct connection** to complementary expertise and resources across GenoTher

OUR PLATFORM

Quality control (QC) services for next-generation ATMPs using genome-modifying technologies such as **CRISPR tools or lentiviral vectors**

The platform provides in-depth characterization of ATMPs in compliance with regulatory guidelines

We provide:

LENTIVIRAL QC PACKAGE

CRISPR QC PACKAGE



In vitro or *in vivo* evaluations

Studies performed in iso9001:2015 or R&D expert environment

Version V8

OUR SERVICES

STUDIES AT GENOMIC LEVEL

- ❑ LV vector copy number (ISO)
  - → Digital Droplet PCR
- ❑ LV integration site analysis – VISA (ISO)
  - → LM-PCR
  - → NGS
- ❑ Fine characterization of the on- and off-targets (R)
  - → Amplicon-seq
  - → Short/long-read sequencing
  - → GUIDE-seq

STUDIES OF FUNCTIONAL ALTERATIONS

- ❑ Identification of dysregulated genes (R)
  - → RNA-seq
- ❑ Identification of off-targets (R)
  - → RNA-seq
  - → Whole-Exome Sequencing (WES)
- ❑ Analysis of clonality (R)
  - → WES

BIODISTRIBUTION & BIOSAFETY IN VIVO STUDIES

- ❑ Preclinical in vivo studies in humanized mouse models in compliance with regulatory standards (ISO)
- ❑ Biodistribution studies (ISO)
- ❑ Biosafety studies (ISO)

afaq ISO 9001 Qualité AFNOR CERTIFICATION

(ISO) : iso9001 grade (R) : research-grade