



# ACOBION

## Omic Services

A unique expertise  
associated with more than  
20 years experience



## From Sample to Patient Stratification

### For any Field of Investigation

- Drug exposure and clinical response variability
- Risk for adverse events
- **Genotype-specific dosing**
- Mechanisms of **drug action**
- Polymorphic **drug target** and disposition **genes**
- **Trial design** features
- **Cells, tissues, liquid biopsies**

**ACOBBIOM provides a unique technical and scientific expertise associated with more than 20 years experience**



### Design

### Discovery

### Validation

### Device

#### Study Design

##### Methodology

Patient number  
Control choice  
Proper replicate

##### Sampling

Storage & Transport

##### One-day FastTrack

#### NGS Sequencing

DNA/RNA Extraction  
Sample Qualification

Data Analysis  
Secured Data Transfer

Sample Storage  
Data Storage

#### Real time qPCR

DNA/RNA Extraction  
Sample Qualification

Data Analysis  
Secured Data Transfer

Analytical and Clinical  
Performances

#### Pre-Commercial Procurement

Data Protection  
Patentable Biomarkers

Protocol Redaction  
Health Authorities &  
GDPR Compliant

IVD Prototype  
IVD Production – CE-mark

## Analyses of Omics Data and Selection of relevant Biomarkers

### Transcriptomics - Gene expression

- RNA-seq
- qRT-PCR
- Small RNA, miRNA, coding and non coding RNA analyses

### Sequencing - NGS

- Whole Human Genome Sequencing
- De Novo Sequencing
- Targeted Resequencing
- SNPs analysis
- ChIP-seq analysis
- EST library construction

### Bioinformatics - Biostatistics

- Treatment and analysis of transcriptomic data
- Biostatistical analyses through customized algorithms
- In-silico investigations for target and biomarker discovery
- Biomarker validation through MaRS, ACOBIOM's proprietary database containing 21,000 human RNA-Seq

ACOBIOM produces and analyzes Omics Data to select relevant Biomarkers thanks to its powerful technology platform.

Hence, the company can answer to any demand concerning:

- ➔ **Genomics**
- ➔ **Transcriptomics**
- ➔ **Gene Expression**
- ➔ **Sequencing / NGS**
- ➔ **Bioinformatics**
- ➔ **Biostatistics**
- ➔ **Omics Data analyses**

***ACOBBIOM** produces and analyzes  
**Omics Data** to select relevant **Biomarkers**  
thanks to its powerful technology platform  
based on:*

- A molecular biology laboratory,*
- Sequencing tools and qPCR devices,*
- A range of selected bioinformatics tools  
and customized statistical algorithms.*



**ACOBBIOM**

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