



GENXMAP

Biomarker Services

- ✓ Providing large range of solutions
- ✓ Personalized Biomarker analysis strategy

Biomarker Analysis

Biomarkers are specific cells, molecules, genes, gene products, enzymes, or hormones which can be discovered or analyzed in a normal or pathological state in the body. These indicators could be analyzed via genomics & transcriptomics approaches.

GENXMAP proposes a large range of biomarker assays via Genomics and Transcriptomics pathways.

Sample types:

- FFPE
- Buffy coat samples
- FTA cards
- Human and animal cells and tissue
- Biological fluids
- Soil and microbial samples

Applications:

- ✓ Diagnosis
- ✓ Prognosis
- ✓ Treatment response
- ✓ Drug development
- ✓ Personalized medicine

A reliable Biomarker assay by:

- ✓ Personalised project set-up and follow-up
- ✓ Optimised sample quantity and quality
- ✓ Quality Control process
- ✓ Sample standardisation
- ✓ Running tests
- ✓ Results analysis
- ✓ Bioinformatics/biostatistics analysis
- ✓ Validation

Bioinformatics and biostatistics propositions for data analysis:

1. Data Processing
2. Feature selection
3. Data integration
4. Statistical analysis
5. Biomarker validation
6. Visualization

Discover

> **NEW** BIOMARKER ASSAYS

A **turnkey solution** in Biomarker discovery and analysis, from simple genotyping to bulk or single cell RNA sequencing, and from a simple t-test to a sophisticated bioinformatics analysis on sequencing generated data.

Over 600

> **Biomarkers**

In different panels

- ❖ Personalized project set-up and follow-up plan
- ❖ Customized & turnkey solutions
- ❖ Meet your specific requirements
- ❖ We take pride in our customer-centric approach

Optimized process

Biomarker Analysis

We grant you a customized solution for your projects by providing different steps from sample preparation to final data analysis

- Customized Gene Panels for PCR and qPCR-based assays
- Genomics level**
- Whole Exome Sequencing (WES)
 - Whole Genome Sequencing (WGS)

- Transcriptomics level**
- Gene expression profiling.
 - Whole transcriptomics profiling
 - Single Cell RNA profiling
 - Spatial transcriptomics

- Analysis level**
- Biostatistics
 - Bioinformatics



> Custom assays
on multiple platforms

Key disciplines and services to support your biomarker strategy

- Biomarker Discovery**
- Discover genetic mutations by DNA sequencing
 - Detect tissue heterogeneity by Single cell DNA sequencing
 - Whole transcriptome analysis by Bulk RNA sequencing
 - Single cell level transcriptomics analysis by Single cell RNA Sequencing
 - Transcriptome localization within the tissue by Spatial Transcriptomics

- Biomarker validation / measurement**
- Nucleic acid purification
 - Tailored RT-PCR/ qPCR/ RT-qPCR
 - Gene mutation analysis
 - Custom multiplex mRNA profiling
 - Quantitative viral or bacterial load assays
 - Single and multiplex SNP analysis
 - Next Generation Sequencing
 - Direct DNA sequencing (microbial, viral)
 - Biostatistics
 - Bioinformatics



Contact us

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