



## IDENTIFY AND CHARACTERIZE MICROBIAL AGENTS

### ABOUT US:

**GenoScreen is a French biotech company specialised in genomics and bioinformatics.**

We develop and offer innovative solutions to decode DNA and RNA in order to explore their properties using the latest generation sequencing platforms.

Our R&D projects enable us to constantly improve our competitiveness to fit better our customers and partners needs.

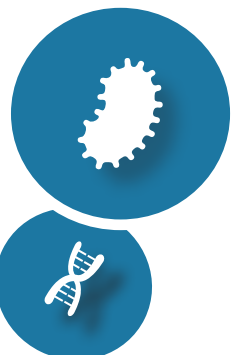
**Since 2001**, our company is growing by adopting the innovations and biotechnological progress of the sector, as soon as they appear.

Our experience in molecular microbiology ranks us among the innovative players of the field, especially in microbial analysis.

Our know-how enables us to fulfill all the new requirements in identification and characterization of microorganisms.

### YOU NEED TO:

- **Identify microorganisms** (bacteria, fungi, yeasts...),
- **Characterize** new species, pathogens or contaminants,
- **Verify the function of strains of industrial interest** (comparison of gene expression under different conditions, study of genetic stability of a strain...),
- **Compare microorganisms** (phylogeny studies or SNPs research...),
- **Research biomarkers of interest** and identify potential applications.



## *Genetic identification*

**Identification of strains of interest** by rDNA sequencing (16S, 18S, 28S and ITS1/2). A complete solution, from the primary bacterial culture to data analysis. Your results are available within 3 working days.

10 free identifications for first time orders

## *Molecular typing*

**Tracking and comparison of strains of interest.** Deployment of standardized and validated genotyping methods (MLST, MLVA), or customized schemes.

## *Whole-genome sequencing*

**Whole sequencing of microorganism genomes:** from gDNA extraction to data analysis for a more accurate characterization.

Our use of long reads and/or ultra-deep sequencing optimizes the results.

## *Transcriptomics*

**Comparison of strains transcriptome by high throughput RNA sequencing:** build up of a catalogue of expressed genes, differential expression studies, description of new transcripts...

## *Complex Mycobacterium tuberculosis*

**Tracking and characterization of tuberculosis germs** with 2 exclusive products:

- The MIRU-VNTR kit, to carry out epidemiological analyses,
- The Deeplex® Myc-TB test, to predict antibiotic resistance. (available in CE-IVD and RUO versions)

## *Bioinformatics*

**Analysis of genomic data** (assembly, annotation, detection of variants, comparison of genomes).

Benefit from the experience of our bioinformaticians.

## WORK WITH GENOSCREEN AND BENEFIT FROM:

- Dedicated solutions to suit your needs and expectations
- Interaction with highly qualified staff
- 18 years of experience and know-how



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