



Why partner with Eurofins Genomics

ISO
17025
Certified

5M
samples
capacity per
year

1,500 m²
of
laboratories



Contact us to discuss how we can help you reach your goals.

go.eurofinsgenomics.eu/agrigenomics



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PLANT
BREEDING

AGRIGENOMICS SOLUTIONS OVERVIEW

OUR MISSION IS TO BE THE
MOST INNOVATIVE, GLOBAL
AND RELIABLE PARTNER
SERVING THE AGRIGENOMICS
INDUSTRY



LIVESTOCK



COMPANION
ANIMALS



AQUACULTURE

5 Key benefits working with us

- **Fast TAT:** Express in 4 WD, standard in 5 to 10 WD thanks to high level of market unique automation systems
- **Quality Program:** ISO17025, CDCB certified lab and nominator, Vet lab certified
- **Dedicated project** managers as single point of contact, they guarantee smooth process of your project, accurate planning, easy communication
- **Expertise:** 20+ years in genotyping, 15+ years in sequencing, >2M samples process yearly, R&D team, plants and animal staff experts
- **Worldwide service:** We serve clients globally with different sisters locations in EU, US, India, Japan, LATAM

6 Key applications

- **Genomics selection**
- **Marker assisted breeding**
- **Parentage testing**
- **Seeds quality control**
- **Microbiome**
- **Pathogen screening**

4 Technological platforms

- **DNA** extraction from any kind of sample, we have expertise on XX different species
- **Microarrays:** Illumina and ThermoFisher
- **NGS:** DNBSEQ G400, DNBSEQ T7, Oxford Nanopore
- **qPCR**

We are European largest agricultural portfolio provider

SNPs markers discovery: We help to catch the optimum of the genetic variability of your population by whole genome sequencing or random amplicon sequencing (GRAS-DI®).

Genotyping by Sequencing:

Skim

- Identify genetic variants associated with important agronomic traits.
- Predict the breeding value of individuals based on genomic data, accelerating the breeding process.
- Study the genetic structure and demographic history of plant, animal and aquatic populations.

Targeted

- Identify and track specific genetic variations associated with desirable traits in crops and livestock.
- Study the genetic basis of complex traits, such as yield, disease resistance, and stress tolerance.
- Confirm parent-offspring relationships to improve breeding program accuracy.

Genotyping by microarray: Obtain the best call rates, reliable data quality and fast turnaround time from custom and commercial Illumina Infinium Beadchips and ThermoFisher Axiom arrays. Benefit from our optimised and automated high-throughput platforms and get the most competitive prices.

Whole genome sequencing: Investigate further in details genomics variations, sequence elite animals or plants for traits discovery, characterize genetically modified crops or animals

Metagenome screening and Environmental DNA: We analyse your species community by 16S, 18S & ITS rRNA amplicon sequencing (Microbiome) or by Shotgun Sequencing (Metagenome) from water, soil, sediments and tissue. Experience the validated and fast full services from DNA extraction to taxonomical assignment.

