

Metagenomics & Microbiome

16S and shotgun metagenomic sequencing for microbial community profiling.

Two depths of answer on the same question. 16S tells you who is present; shotgun tells you what they can do, and down to the strain. Host and microbiome can be read from the same collection.

TECHNIQUES AVAILABLE

TECHNIQUE	WHAT IT MEASURES	TYPICAL USE
16S rRNA sequencing	Taxonomic composition of a bacterial community	Comparing communities between conditions, sites or timepoints
Shotgun metagenomics	The whole community, genes included	Functional potential and strain-level resolution
Host-microbiome studies	Host transcriptome and microbiome from one collection	Infection, inflammation and barrier studies
Extraction from difficult matrices	Nucleic acid recovered from stool, swabs and biofilms	Sample types where standard extraction underperforms

WHAT THESE TECHNOLOGIES LET YOU DO

Find out who is there

Taxonomic profiling across a cohort, with the same protocol on every sample.

Read host and microbe together

One collection, two layers, no second sampling visit.

Go past the name to the function

Shotgun sequencing resolves genes and strains, not only genera.

Compare communities fairly

Batch-controlled processing, so a difference between groups is not a difference between runs.

Where this platform stops. Taxonomic assignment, diversity analysis, differential abundance and host-microbiome integration are run by GenXMap's computational team. Ask for them in the same quote.

SAMPLES, DELIVERABLES AND ORDERING

Samples. Stool, swabs, biopsies, biofilms and environmental samples, among others.

Collection and storage protocols are published per sample type, and the DNA criteria apply after extraction.

omics4.com/sampling-protocols

Deliverables. A QC report for every sample and secure delivery of the sequencing files.

Exports in the formats your team already imports. Turnaround published per service.

omics4.com/turnaround-times

Ordering. Request a quote with your sample type, the number of samples and the question you are asking.

We confirm feasibility before you ship anything.

omics4.com/request-a-quote

QUOTES AND ORDERING

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LABORATORY

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