Metagenomics & microbiome

16S and shotgun sequencing for microbial community profiling and host-microbiome studies.

Two depths of answer on the same question. 16S tells you who is present; shotgun adds genes and strains. Host and microbiome can be read on the same samples.

WHAT THIS PLATFORM RUNS

SERVICE OR TECHNIQUE	WHAT IT COVERS	TYPICAL USE
16S rRNA sequencing	Taxonomic profiling of bacterial communities	Comparing communities between conditions, sites or timepoints
Shotgun metagenomics	Whole-community sequencing for strain-level resolution and functional potential	What the community can do, down to the strain
Host-microbiome studies	Host transcriptomics and microbiome profiling on the same samples	Infection, inflammation and barrier studies
Metatranscriptomics	Expressed genes of the microbial community, run in our laboratory	Activity rather than presence

WHAT IT LETS YOU DO

Find out who is there

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

Go past the name to the function

Shotgun sequencing adds genes and strains to the 16S taxonomy.

Read host and microbe together

One collection, two layers, no second sampling visit.

See what is active

Metatranscriptomics reads the expressed genes of the community, beyond what is simply present.

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.

Turnaround. Standard (4–6 weeks) / Priority (2–4 weeks): business days, from GO after sample reception QC. Routine services run to 72 hours (for example genotyping once the line is validated). The date in your quote is the one that binds us.

SAMPLES, DELIVERABLES AND ORDERING

Samples. Stool, swabs, saliva, soil and water, among others.

Minimum DNA input: 10 ng. Collection and storage protocols are published by sample type.

genxmap.com/lab/sample-submission-guidelines#dna

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

Quality-controlled primary data and platform documentation. Analysis and interpretation can be added to the same quote.

genxmap.com/lab/turnaround-times

Ordering. Request a quote with your sample type, the number of samples and the question you are asking. We reply within 2 business days.

Not sure of the input? We confirm it before you ship anything.

genxmap.com/contact

QUOTES AND ORDERING

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SAMPLES, PROTOCOLS, QC

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LABORATORY

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