



Shotgun metagenomics sequences all DNA directly from a sample provides an unbiased, comprehensive view of microbial community structure, functional potential, and metabolic activity across bacteria, archaea, viruses, and fungi simultaneously. While 16S and ITS answer who is there, metagenomics answers what they are doing which makes it the most complete approach for researchers who need functional depth alongside taxonomic resolution.

Advantages of Working with Admera Health

Fast turnaround time

20–25 business day TAT with a consistent track record of early delivery (expedited TAT available).

Seamless upgrade path

Start with 16S/ITS for community profiling, scale to shotgun metagenomics for functional depth all within one lab.

CAP/CLIA-accredited

Certified environment trusted for publication, grant reporting, and clinical translation.

Dedicated 1:1 support

US-operations

Custom bioinformatics

Deliverables

Standard

- Raw data as FASTQ files
- Quality control report
- Taxonomic profiling (Kraken2)
- Functional annotation summary

Available upon request

- Alpha & beta diversity analysis
- AMR & virulence gene profiling
- De novo assembly & MAG binning
- Metabolic pathway analysis

Diverse Research Applications



Human & Animal

- Gut microbiome & dysbiosis
- Infectious disease & pathogen discovery
- AMR gene detection



Plant & Agricultural

- Soil community function & health
- Crop pathogen & pest dynamics
- Sustainable agriculture & biocontrol



Environmental

- Terrestrial & aquatic ecosystems
- Biogeochemical cycling
- Pollution & bioremediation



Industrial

- Fermentation & bioprocess optimization
- Food safety & contamination
- Bioproduction & enzyme discovery



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