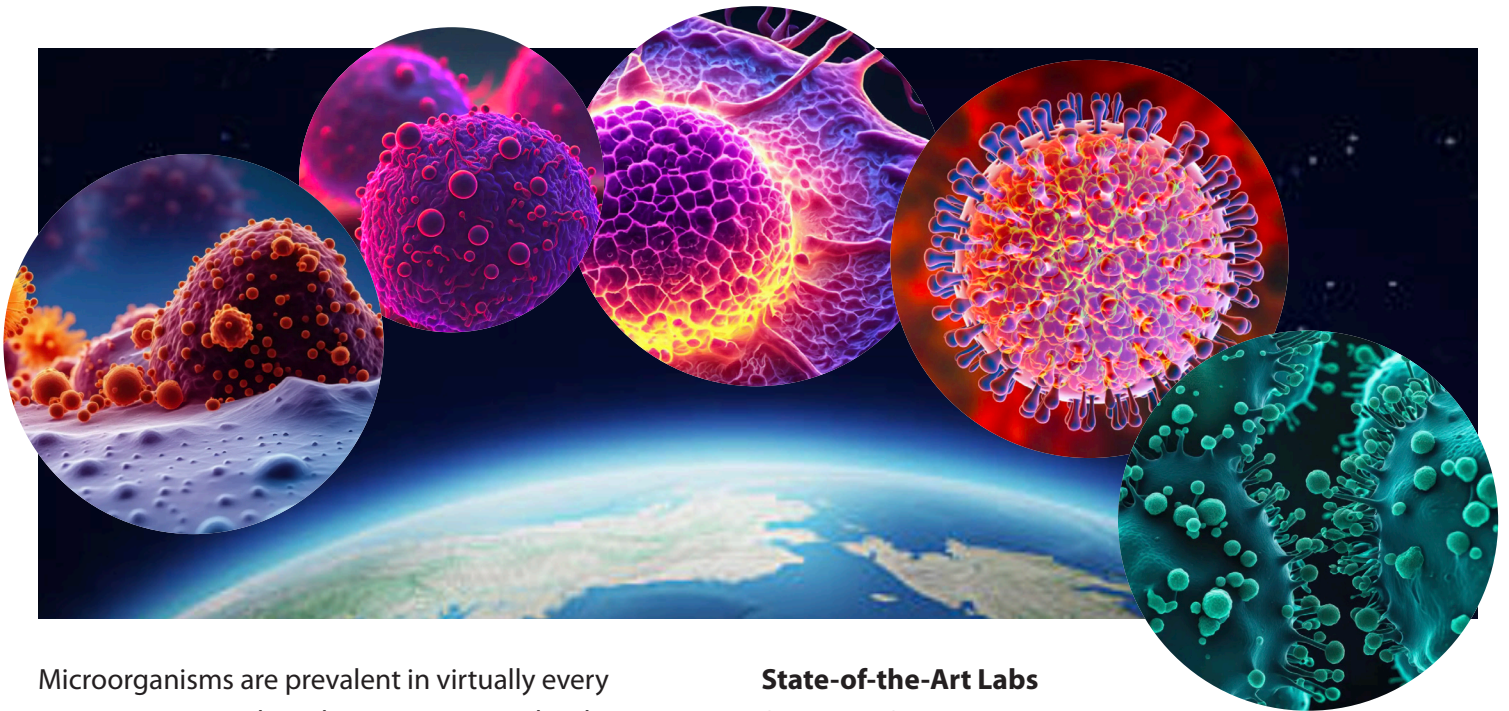


Uncovering Microbial Worlds, Shaping Healthier Futures



Microorganisms are prevalent in virtually every environment. Nucleotide sequencing technology advancements have enabled researchers to dive deeper than ever before into the intricacies of these complex groups of microorganisms, or microbiomes. These advancements can provide important insights about the impact of microbial communities on public and personal health, agriculture, and our planet by uncovering the intricate relationships within these ecosystems. Our research team leverages genome sequencing and advanced bioinformatics software to explore and understand the diverse microbial communities of various environments.

State-of-the-Art Labs

Signature Science operates state-of-the-art biology labs located in Austin, TX. and Charlottesville, VA. Our bioinformaticians proactively work with our customers to determine what type of sequencing, analyses, and statistical tests should be conducted to maximize the amount of pertinent information that can be extracted from a given set of samples. Our highly trained biologists perform extractions, sample quantification, library preparation, and sequencing on our next generation and third generation sequencing platforms while upholding standardized laboratory methods and strict quality control.

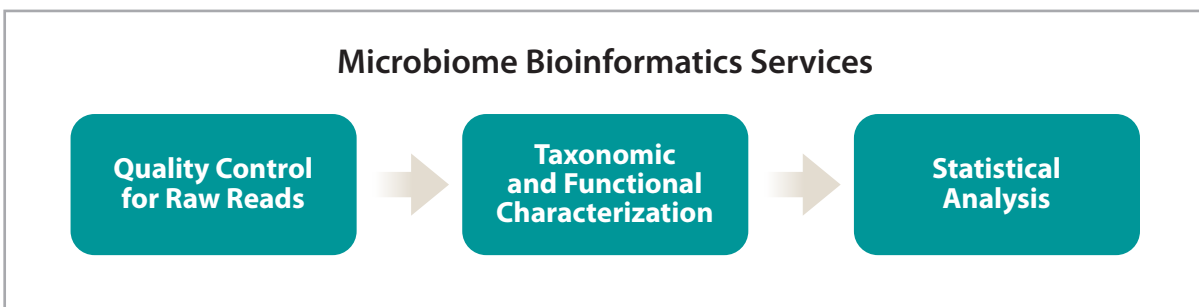
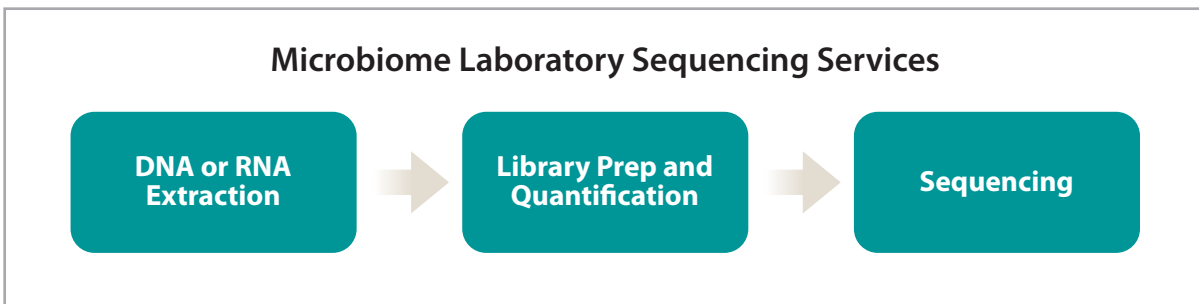
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Microbiome Analysis Services

We have developed an array of services and capabilities that enable us to help our customers understand microbial diversity, uncover unique host microbe interactions, identify microbiome functions, and determine how they relate to host or environmental health.

- **Data Simulations** – *In silico* development of simulated microbial community sequences to mimic real-world sample types.
- **Method Validations** – Assessments and benchmarking of new bioinformatics tools or laboratory methods for microbiome analysis.
- **Sequence Data Analysis** – Signature Science has the capability to perform 16S rRNA, 18S rRNA, custom amplicon, metagenomic, or metatranscriptomic analysis. We offer taxonomic classification, diversity analysis, phylogenetics, functional profiling, differential expression, differential abundance analysis, and more. Services can include complete, standardized analysis – from raw sample to statistically analyzed data – or tailored to specific individual customer needs.



Schedule a Consultation with Our Team.

We'll work with you to determine the service offerings that best align with your unique needs.

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INFORMATION