

Metagenomic Sequencing Service and Kit

16S V4 / 16S V3-V4 / 18S ITS1 / 18S ITS1-ITS2

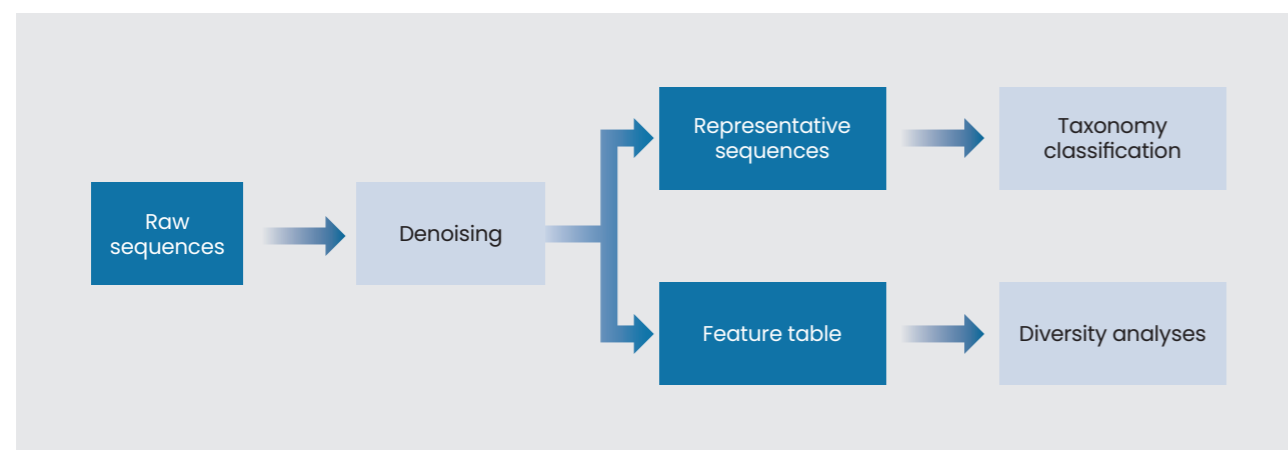
DESCRIPTION

Metagenomic Sequencing Service and Kit is used for microbiome and mycobiome studies. The service allows for characterizing and differentiating a myriad of microbial species. The 16S V4 (or V3-V4) region of bacteria and archaea and 18S ITS1 (or ITS1-ITS2) region of fungi is amplified by PCR. After cleaning up using CeleMag beads, the indices and adapters are attached for NGS and bioinformatics analysis. According to the purpose of customer's studies, various analysis reports are provided by the Celeemics robust analysis pipeline. Please contact us for further information.

EXPERIMENT WORKFLOW

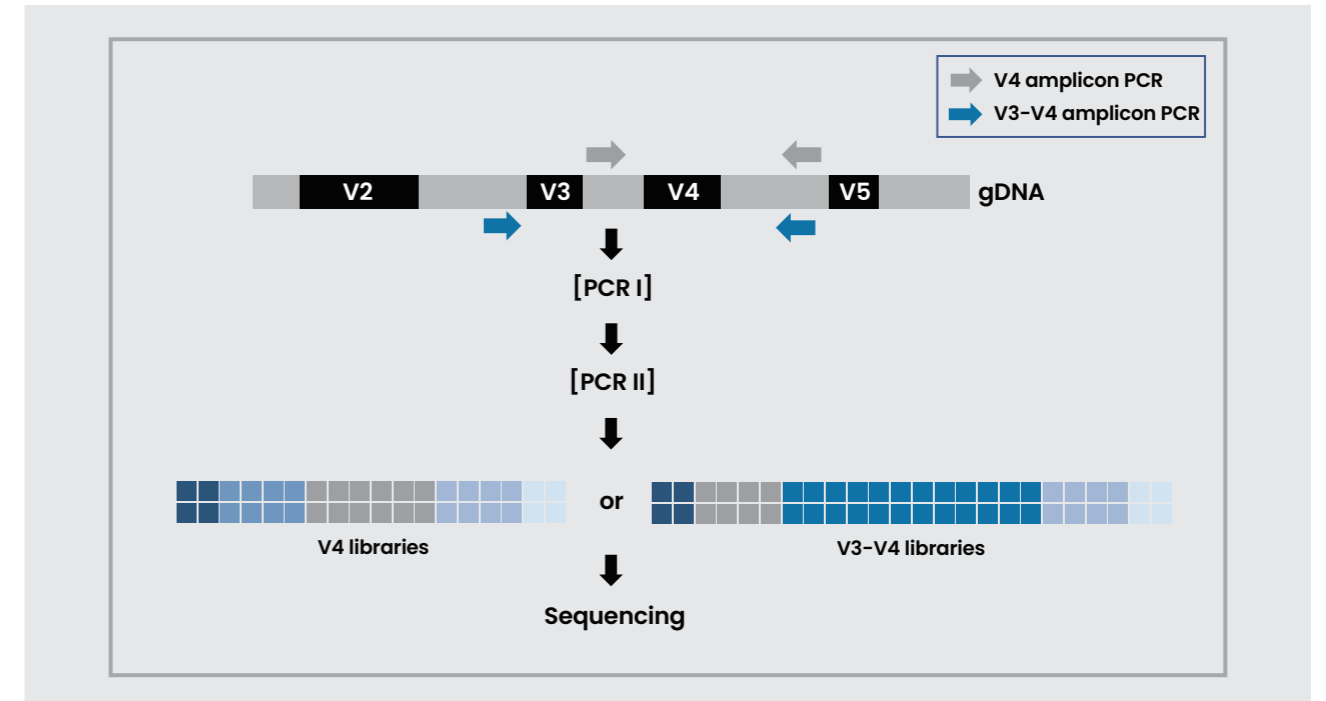
1. PCR amplification against gDNA using 16S region or ITS region specific primers
2. Bead cleanup
3. Index and adapter ligation with Nextera Index sets
4. Bead cleanup
5. Library pooling
6. NGS Sequencing

NGS-BASED METAGENOME ANALYSIS WORKFLOW

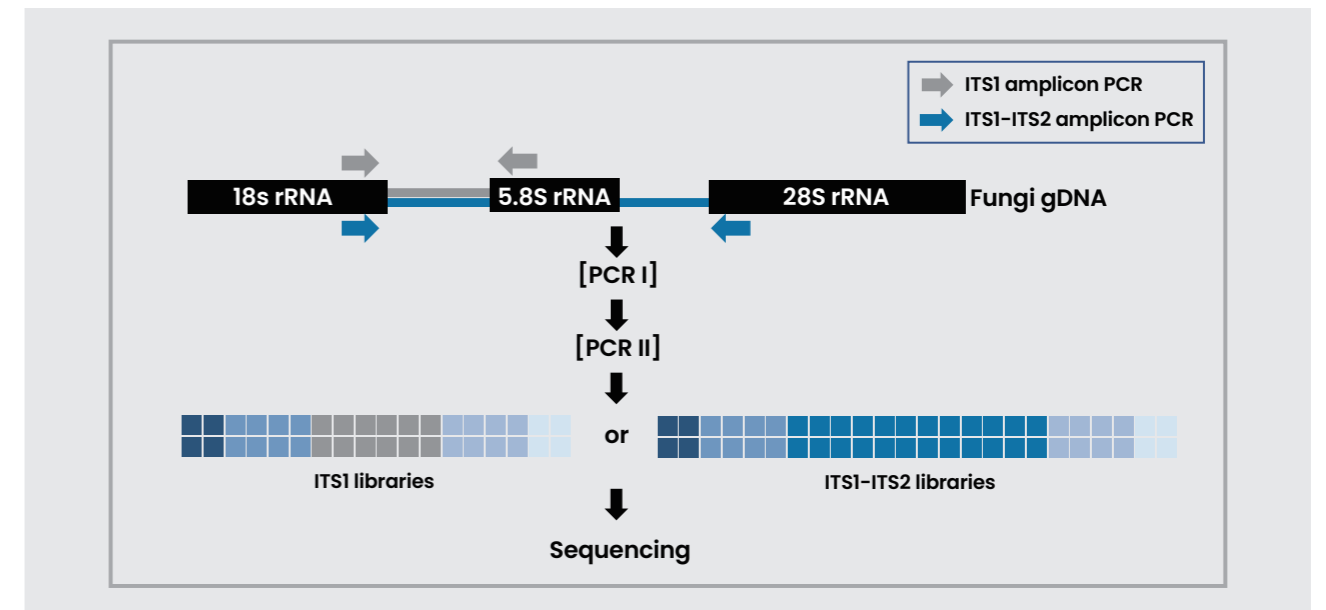


SEQUENCING WORKFLOW

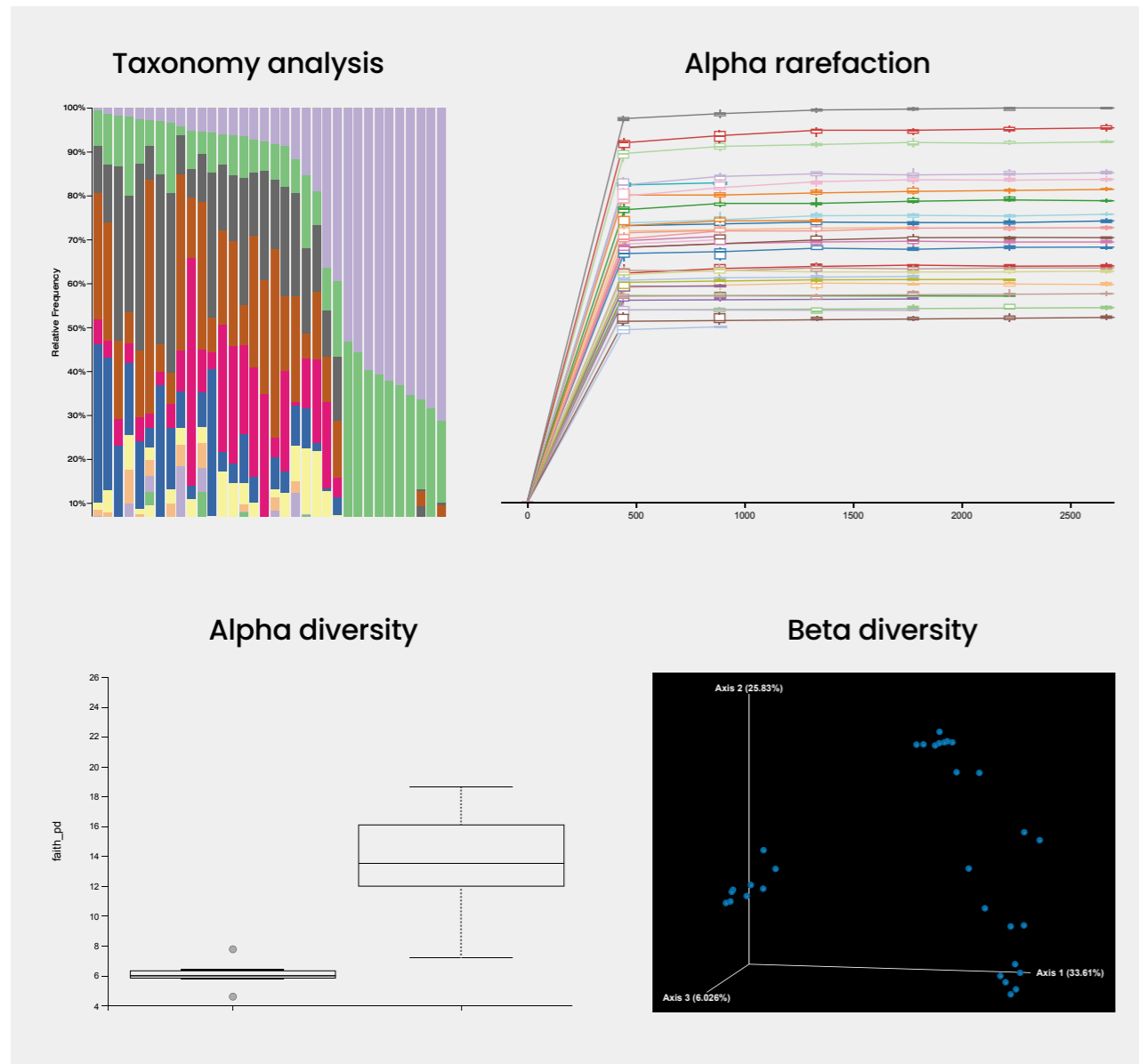
16S rRNA V4 and V3-V4



18S ITS1 and 18S ITS1-ITS2



EXAMPLE OF METAGENOMIC SEQUENCING ANALYSIS REPORT



Results presented above are a few selected examples of the metagenomics sequencing results that Celemics provides. Contact us for more information.

