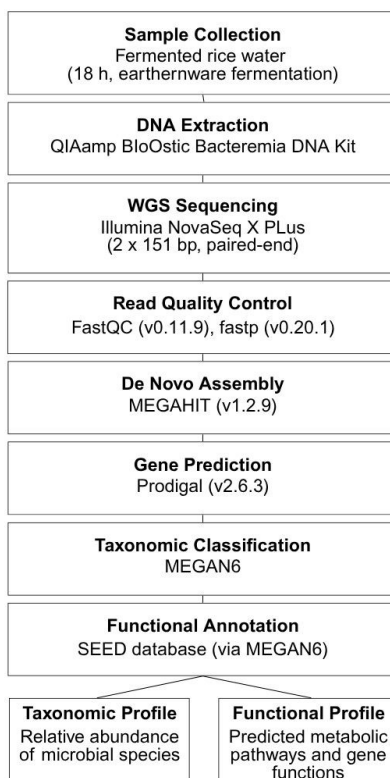


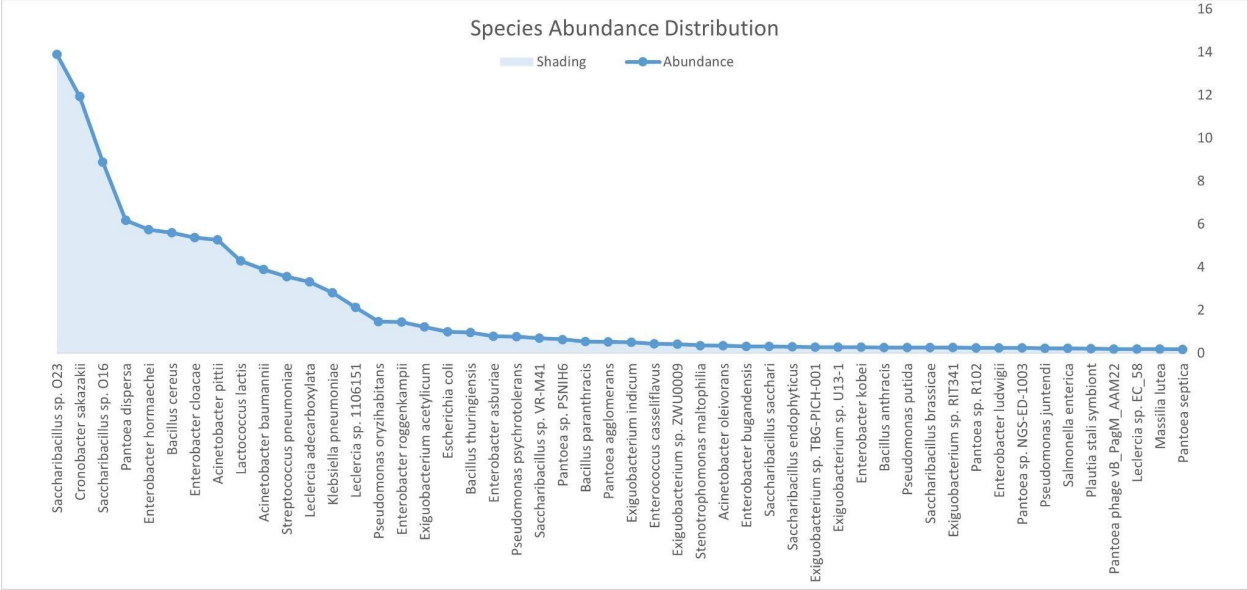
Supplementary Material 2A

Metagenomic Workflow



Supplementary Figure S1. Metagenomics Workflow for Fermented Red Rice Water Analysis.

Metagenomics: DNA extraction, Illumina sequencing, taxonomic and functional annotation of microbial diversity and metabolic potential.



Supplementary Figure S2. Rank-abundance curve of microbial species in fermented Matta rice water.

X-axis: species ordered by abundance. Y-axis: relative abundance (log scale). The curve demonstrates species richness and evenness across 50 identified taxa.