

Explore freeze-dried samples Alpha diversity

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Introduction

In this study, we want to investigate if Freeze Dried samples give the same data as samples stored at -80 freezer prior library preparation. Here, we ask if the alpha diversity differ between the two sample types.

Methods

We took 20 replicate samples from our fecal samples stored in -80 and freeze dried them at the Kalahari Research Centre for 48 h. Freeze Dried samples were then transported and stored at room temperature until 16S library preparation of fecal samples and randomized on three sequencing plates together with their replicates. On all three plates, 4 negative controls were used to remove contaminant reads from samples before further analysis.

Results

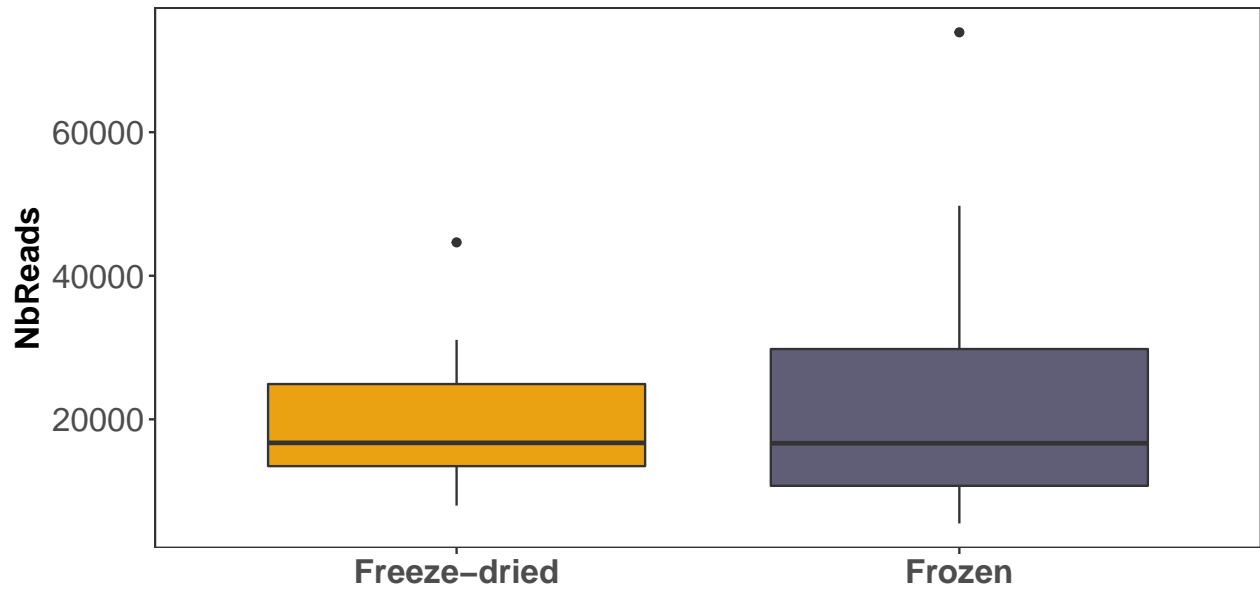


Figure 1: Boxplots Number of reads per samples, Colour by Sample type.

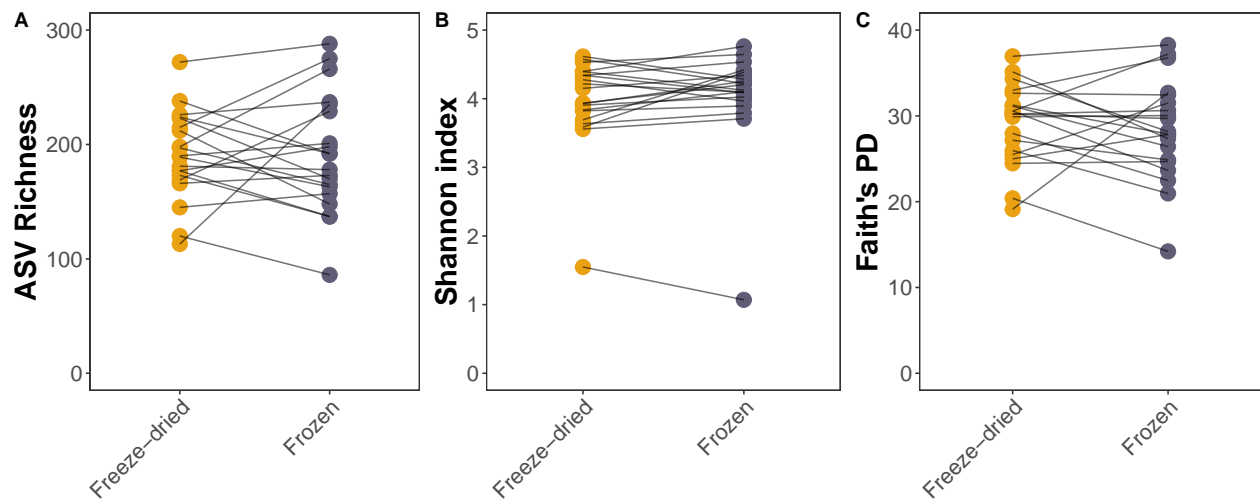


Figure 2: Alpha diversites calculated with phyloseq+microbiome package, A) ASV richness, B) Shannon index C) Faiths PD. Black line between paired sampes.

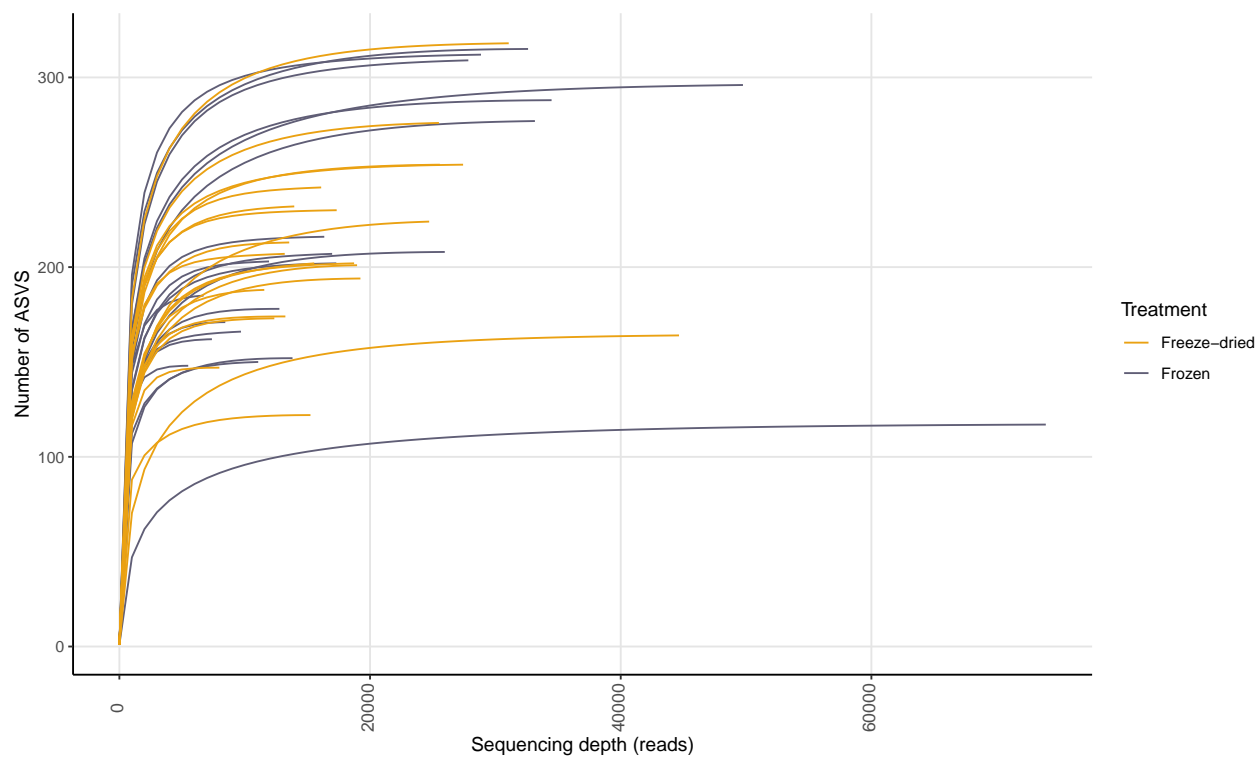


Figure 3: **Rarefaction curves.**