



Supp. Fig. 4: A) Permutated random forest recapitulates the metabolites that drive differences between the vaginal communities. The heatmap shows the mean decrease in accuracy associated with the specific microbiomes. Bold boxes around the heatmap cell indicates statistical significance of that feature at $p < 0.05$. B) Lefse analysis of annotated HUMAnN2 output comparing the enrichment of functional pathways between vaginal microbiomes with abundant *Bifidobacteriaceae* (*G. vaginalis*), *L. crispatus*, *L. iners*, or other. This analysis was done using the `-no_stratify` flag for `humann2`, which analyzes the data without the taxa specific information.

