

**Figure S3.** Comparison of periodontitis communities from this study (n=34) with HMP healthy subjects (n=79). Graphs are principal coordinate analysis plots. The plot on the left was based on the Jaccard Index, which measures distance among samples according to taxa prevalence. The plot in the middle was based on the  $\theta_{YC}$  index, which measures distance among samples according to community structure. Using both metrics, healthy subjects (green), periodontitis cluster A (black) and periodontitis cluster B (red) subjects clustered separately (AMOVA P<0.001 between periodontitis and health, P<0.001 between periodontitis cluster B and health, and P =0.004 between periodontitis cluster A and B for Jaccard-based data clouds and P<0.001 for  $\theta_{YC}$ -based data clouds). The right PCoA plot shows health HMP samples colored according to clusters reported in S5 Fig.