Figure 1 Spearman coefficient = 0.665 Ε Adjusted p < 2.2e-16 Veillonella 10.0 1.0 Spearman Coefficient 0.5 Assal-3 months vs. baseline PCoA 10.9% Atopobium 0.0 Peptostreptococcus Streptococcus . Different timepoint Same timepoint -0.5 Granulicatella Fusobacterium Rothia Butyricimonas -1.0 Afshar Assal Solobacterium • BS Ilhan -1.5 -1.0 0.0 0.5 1.0 Anaerostipes Different study Same study PCoA 23.3% BS-1 month vs. baseline Spearman coefficient = 0.648 В D Adjusted p < 2.2e-16Afshar Assal 0.7 -Veillonella . 0.6 -1.0 0.5 -Hydrogenoanaerobacterium Coefficient 0.4 vs. baseline 0.5 PCoA 10.9% Mogibacterium 0.0 Butyricimonas

Lachnospira Spearman (- 5.0 BS Ilhan Assal-1 year -0.5 Afshar_0 Afshar Assal_0 Assal_1 -1.0 BS 0 BS_1 Ilhan_0 0.4 -2 - Butyricicoccus Faecalitalea 0.3 -Anaerostipes -1.5 -0.50.5 1.0 Afshar Assal BS Afshar Assal BS Ilhan -2.5 2.5 5.0 7.5 10.0 Studies PCoA 23.3% Assal-3 months vs. baseline