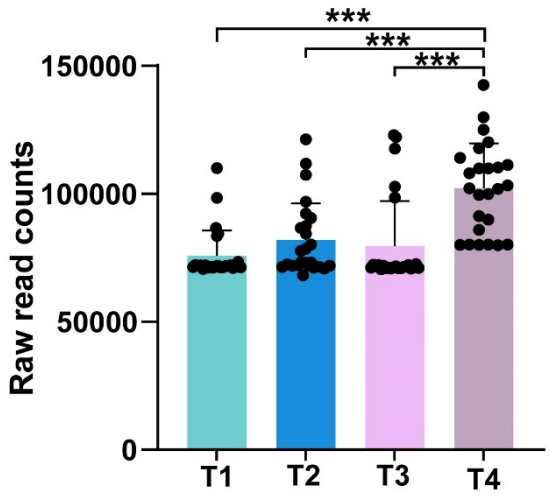


Figure S1. Comparison of raw read counts among the four stages from pregnancy to weaning (n=25/per stage). One-way ANOVA. *** $p < 0.001$.

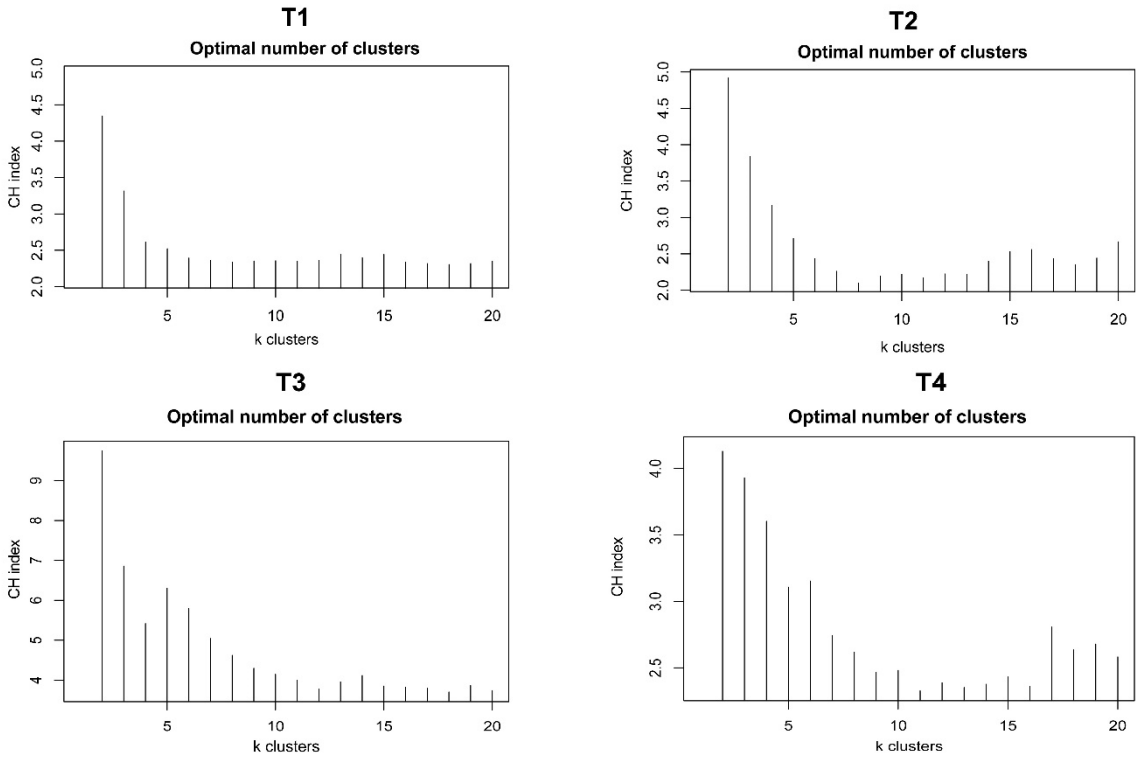


Figure S2. Optimal number of clusters among the four stages from pregnancy to weaning. CH index: Calinski_Harabasz index.

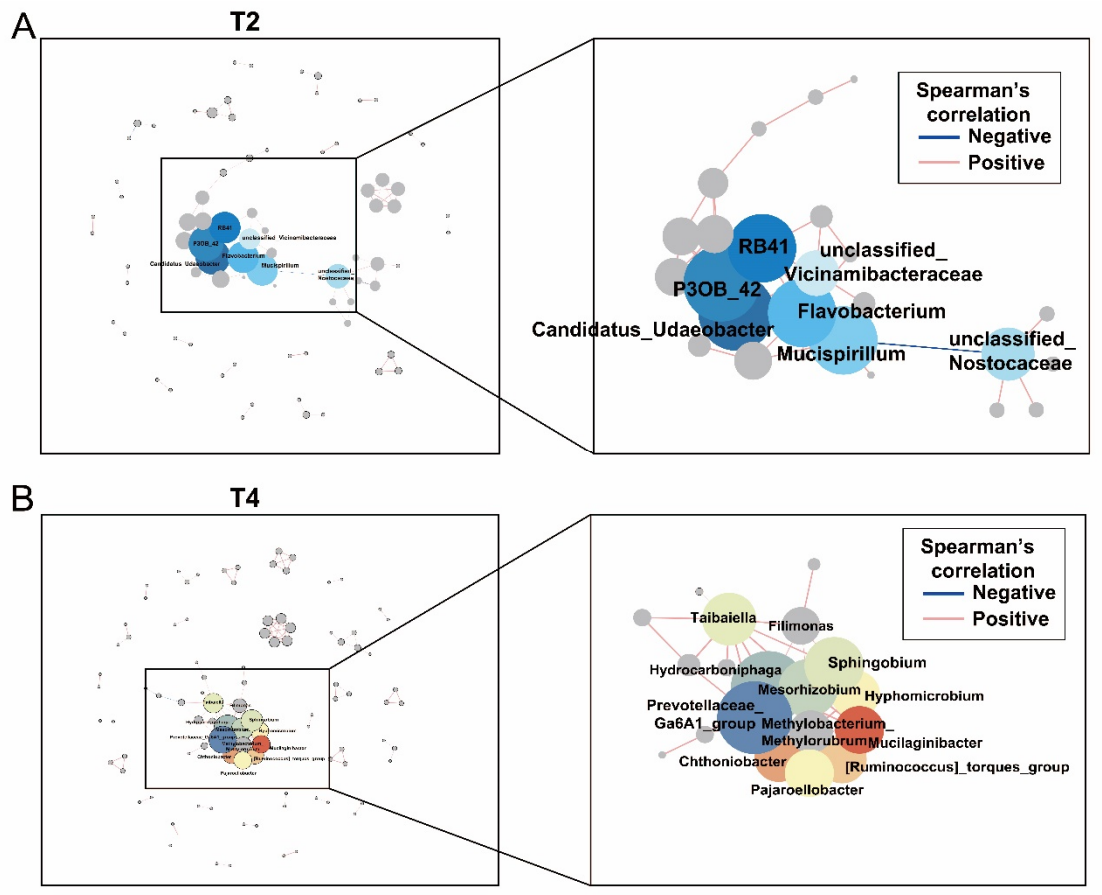


Figure S3. Interactions among bacteria. (A) The microbiota interaction networks at the T2 (A) and T4 (B) stages based on the following criteria: $|r| > 0.7$ and FDR < 0.001. The Pink and blue lines indicate positive and negative correlations, respectively.

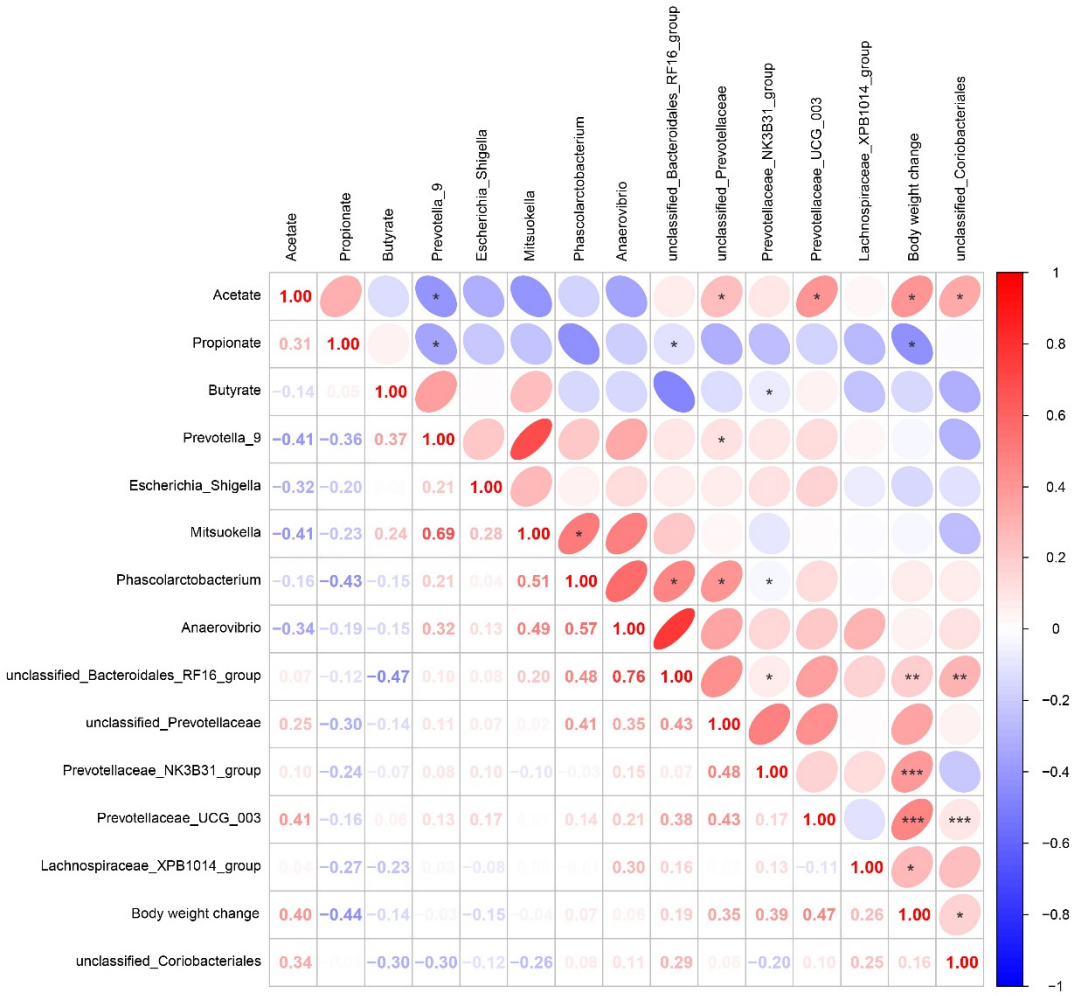


Figure S4. Correlation analysis among microbial biomarkers, SCFAs, and body weight change during pregnancy. Spearman's rank correlation analysis. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.