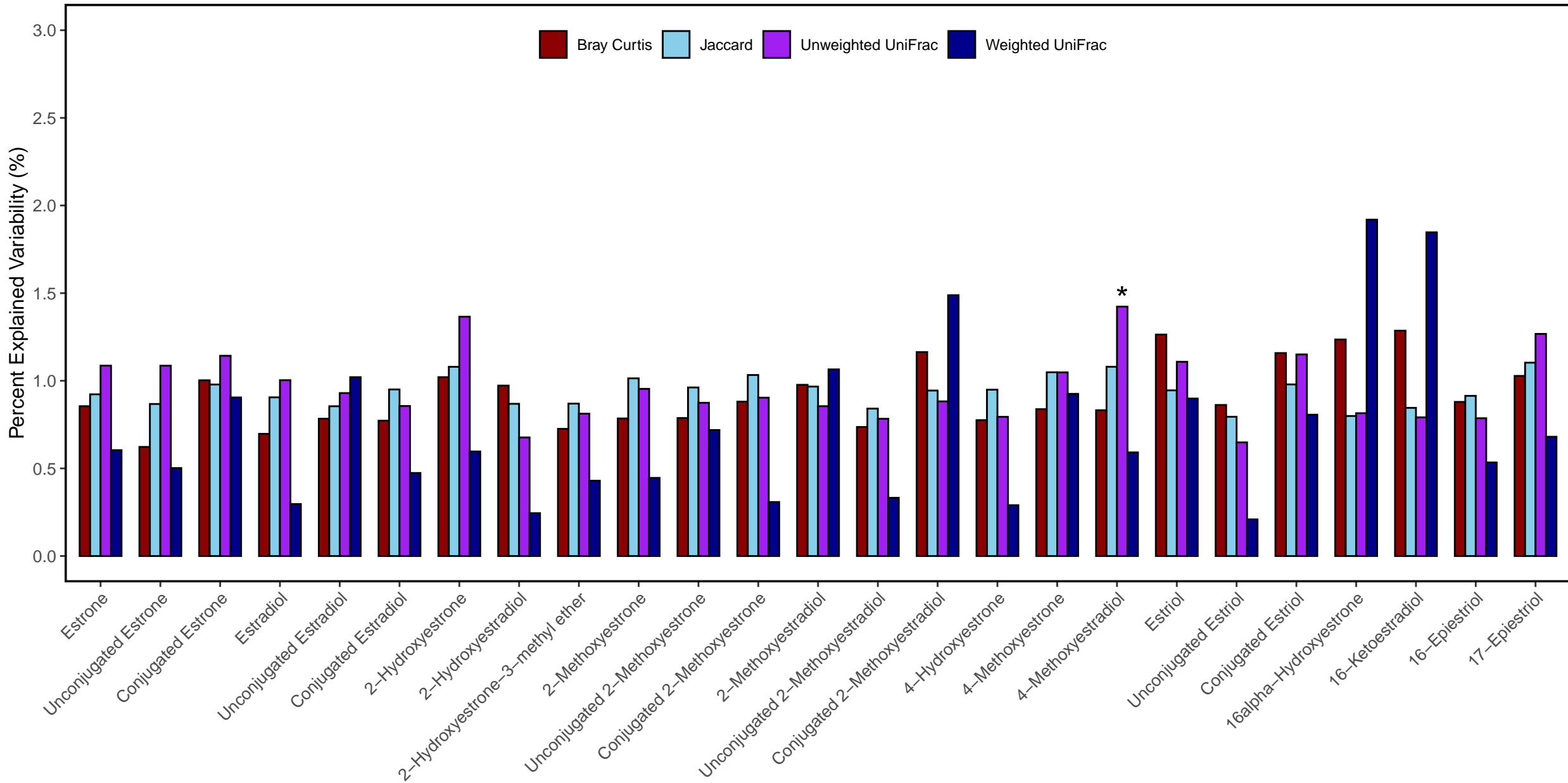**Supplementary figure legend**

Figure S1 Percent of fecal microbial (A) and oral microbial (B) variability explained by each parent estrogen or estrogen metabolite were calculated for beta-diversity estimates from Bray-Curtis, Jaccard, unweighted UniFrac, and weighted UniFrac. The distance-based coefficient of determination (R^2) was calculated by Adonis test. The "*" on top of the bar indicates a p-value less than 0.05 but FDR adjusted p-value greater than 0.05. The "#" on top of the bar indicates an FDR adjusted p-value less than 0.05.

A Fecal Microbiome

B Oral Microbiome