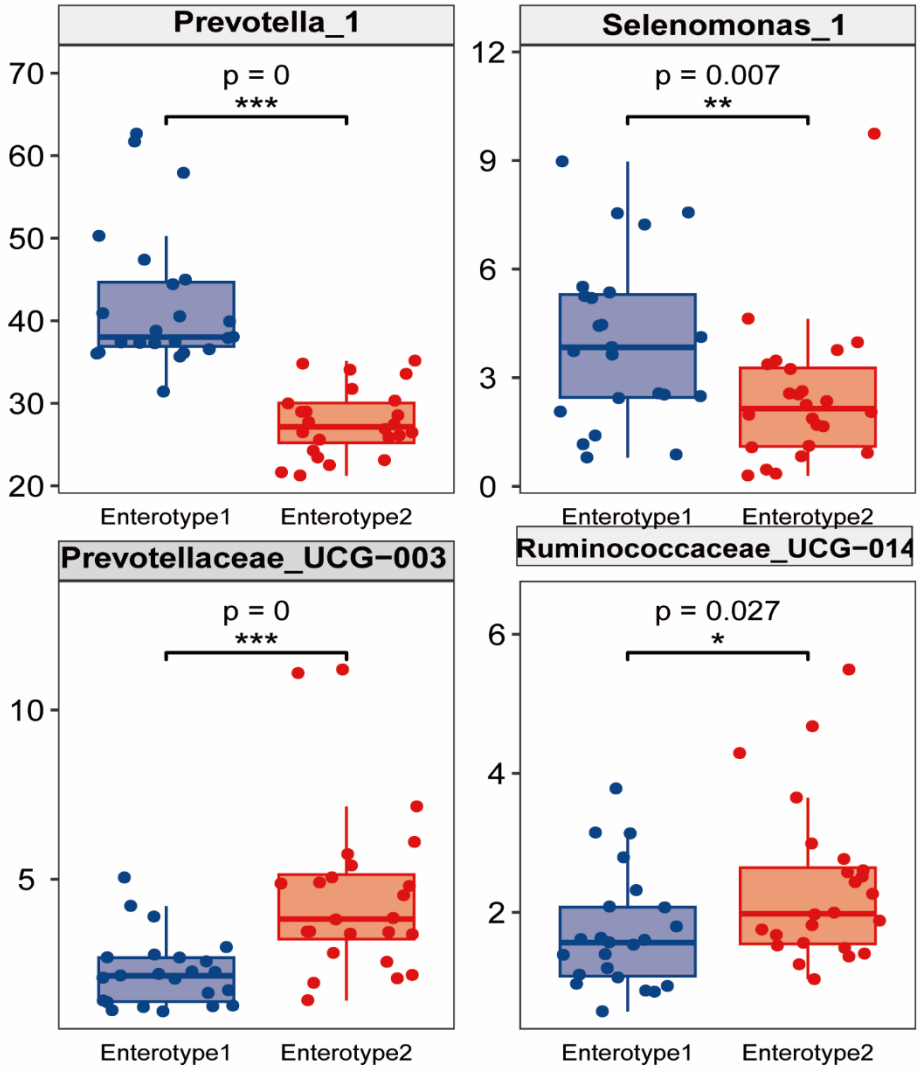

Supplement 1. The significance analysis of the top four representative bacterial taxa, whose cumulative contribution exceeds 70%, is presented. All bar distributions were tested using the Mann–Whitney U test with FDR-corrected p-values. Center values indicate the median, and error bars represent variability.*$p < 0.05$, **$p < 0.01$, ***$p < 0.001$.