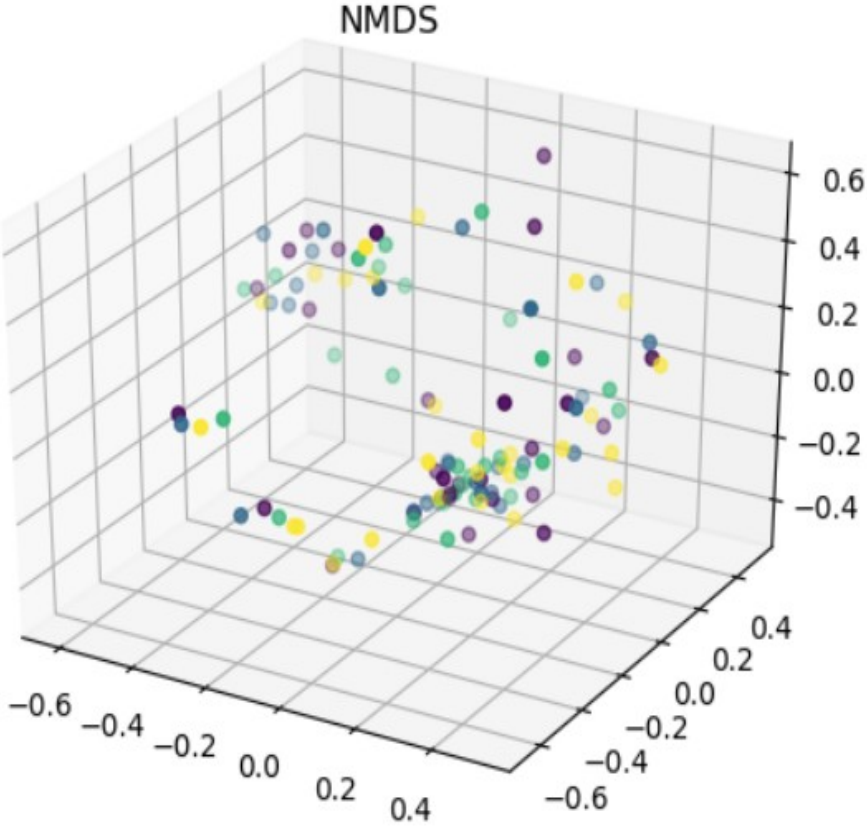
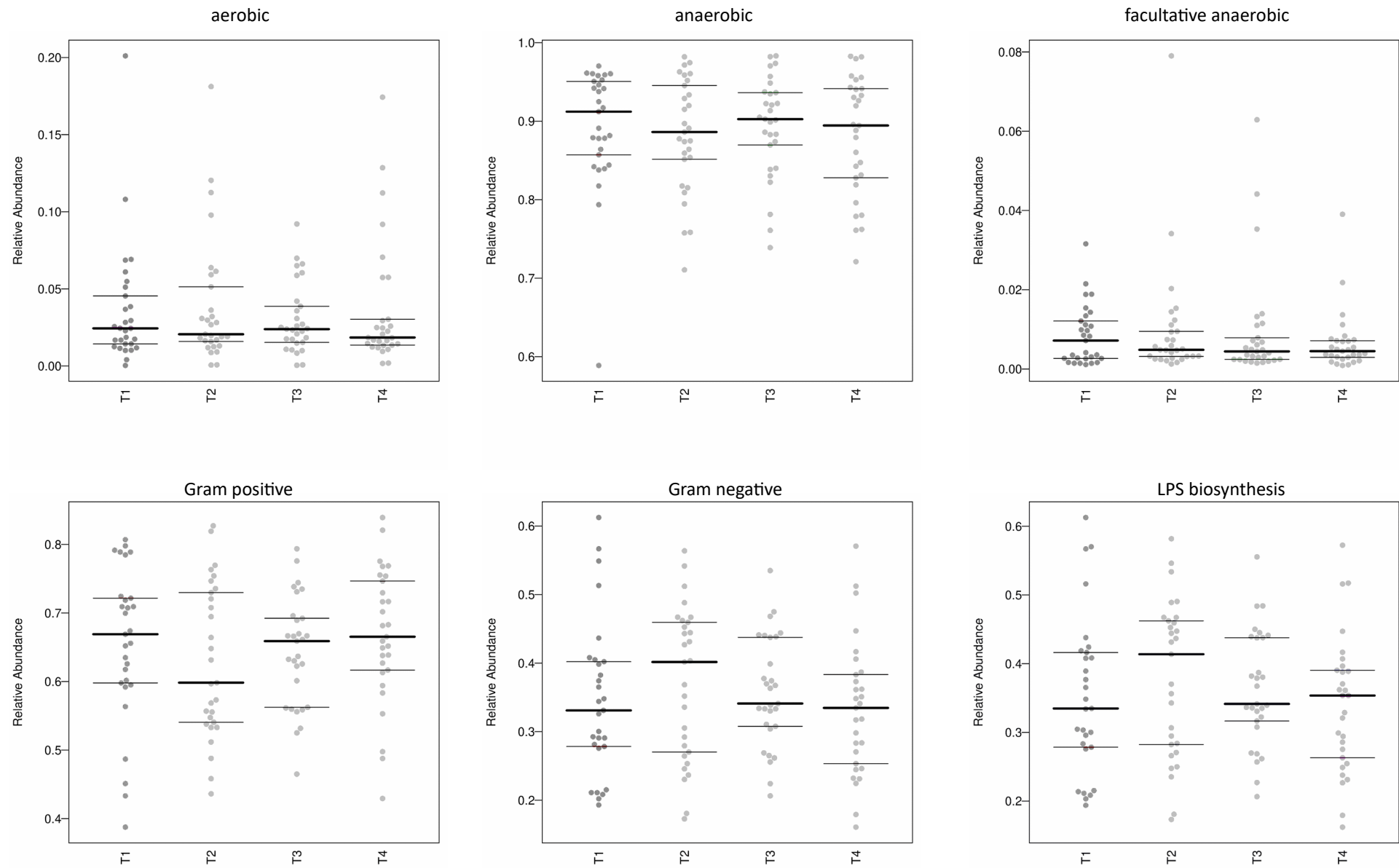


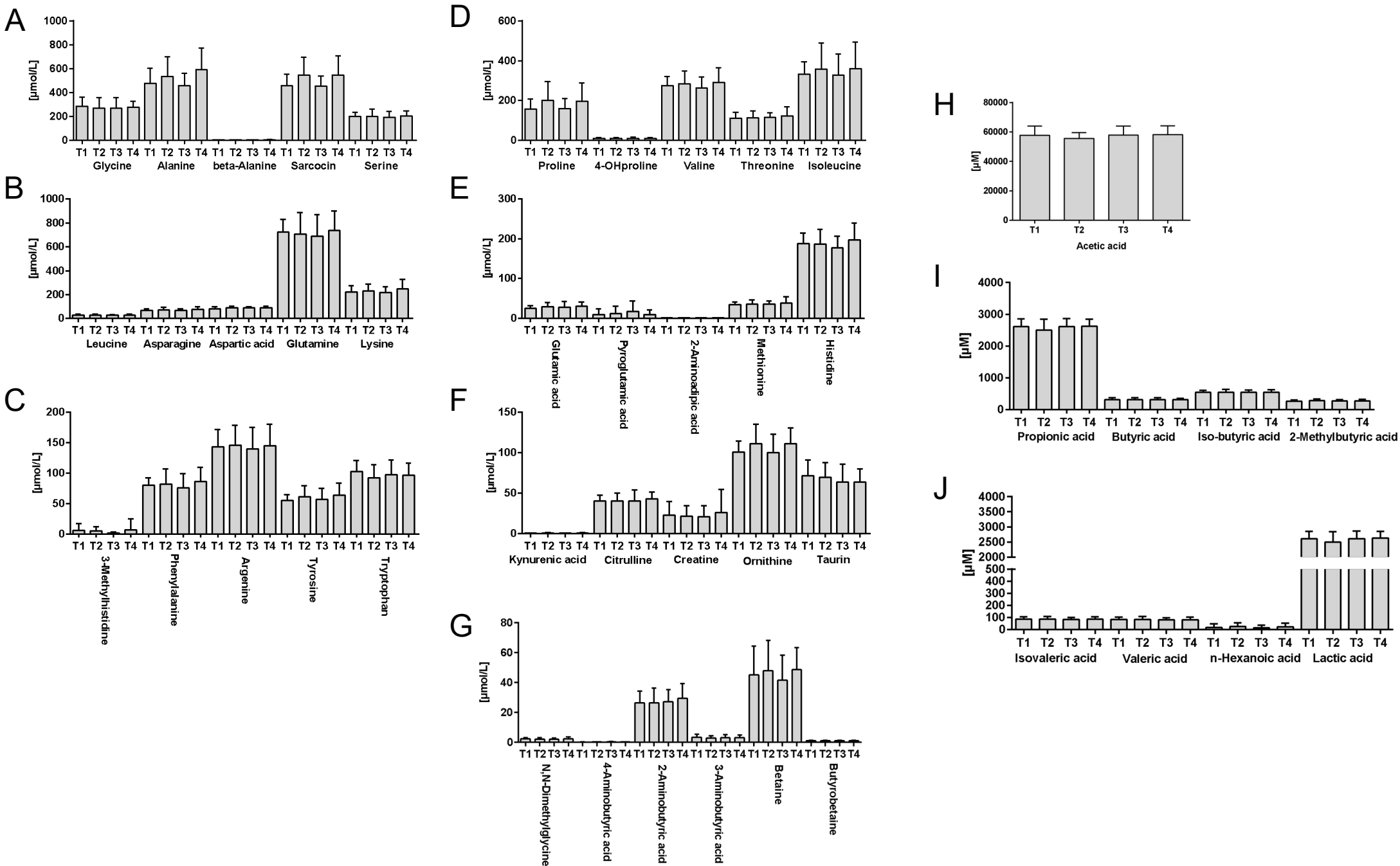
Supplementary Figure S1: NMDS plot of thetaYC distances for three dimensions.



Supplementary Figure S2: Relative abundance of high-level phenotypes ($n = 29$ subjects) using BugBase web application.



Supplementary Figure S3: Metabolome analysis using QTRAP.



Supplementary Figure S4: Correlation of bacteria abundance between subgroups.

