



Figure S1. The spearman correlation heatmaps (a) and network regulation figures (b) of each comparison group with POS mode and NEG mode. a: The columns represent differential genes, and the rows represent differential metabolites. The magnitude of correlation is shown by different colors, where $P < 0.05$ is marked with *. b: circles are differential genes, rectangles are differential metabolites, blue lines indicate negative correlations and red lines indicate positive correlations.