Figure S1(a, b). Pathway enrichment analysis bar chart.
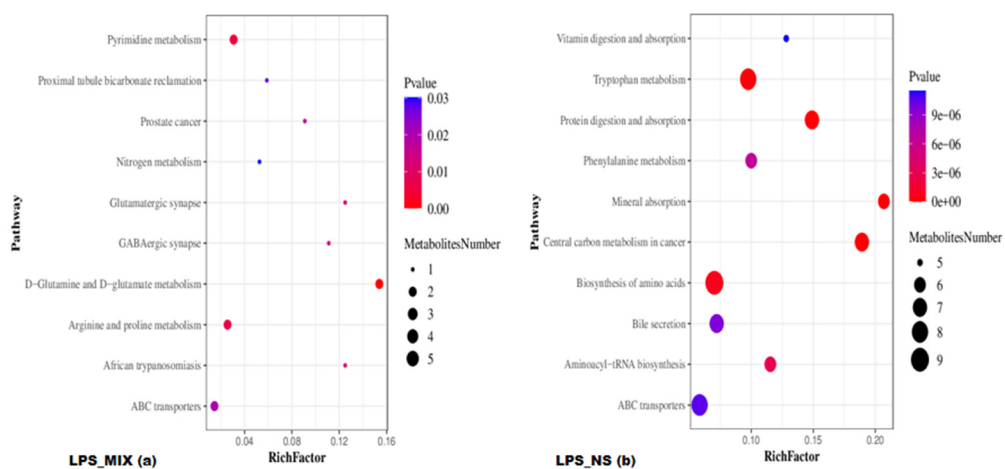

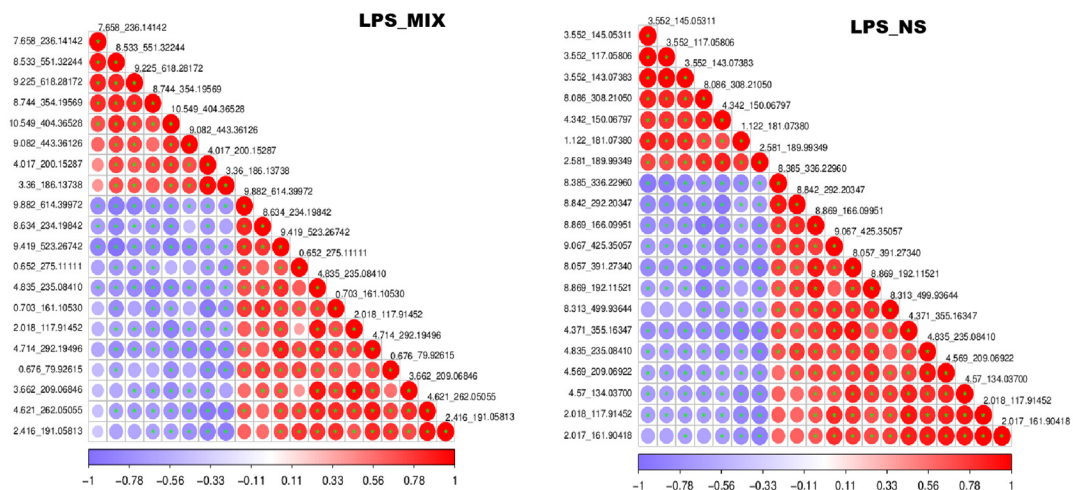**Figure S2(a, b)**. Metabolic pathway enrichment analysis bubble chart.

Figure S3. Correlation heatmap of differential metabolites LPS_MIX. (D) Correlation heatmap of differential metabolites LPS_NS. Red represents positive correlation, blue represents negative correlation, and the darker the color, the greater the absolute value of the correlation coefficient between LPS_MIX and LPS_NS。 "*"represent *p-value* <0.05. When the number of differential metabolites is greater than or equal to 20, the first 20 differential metabolites .