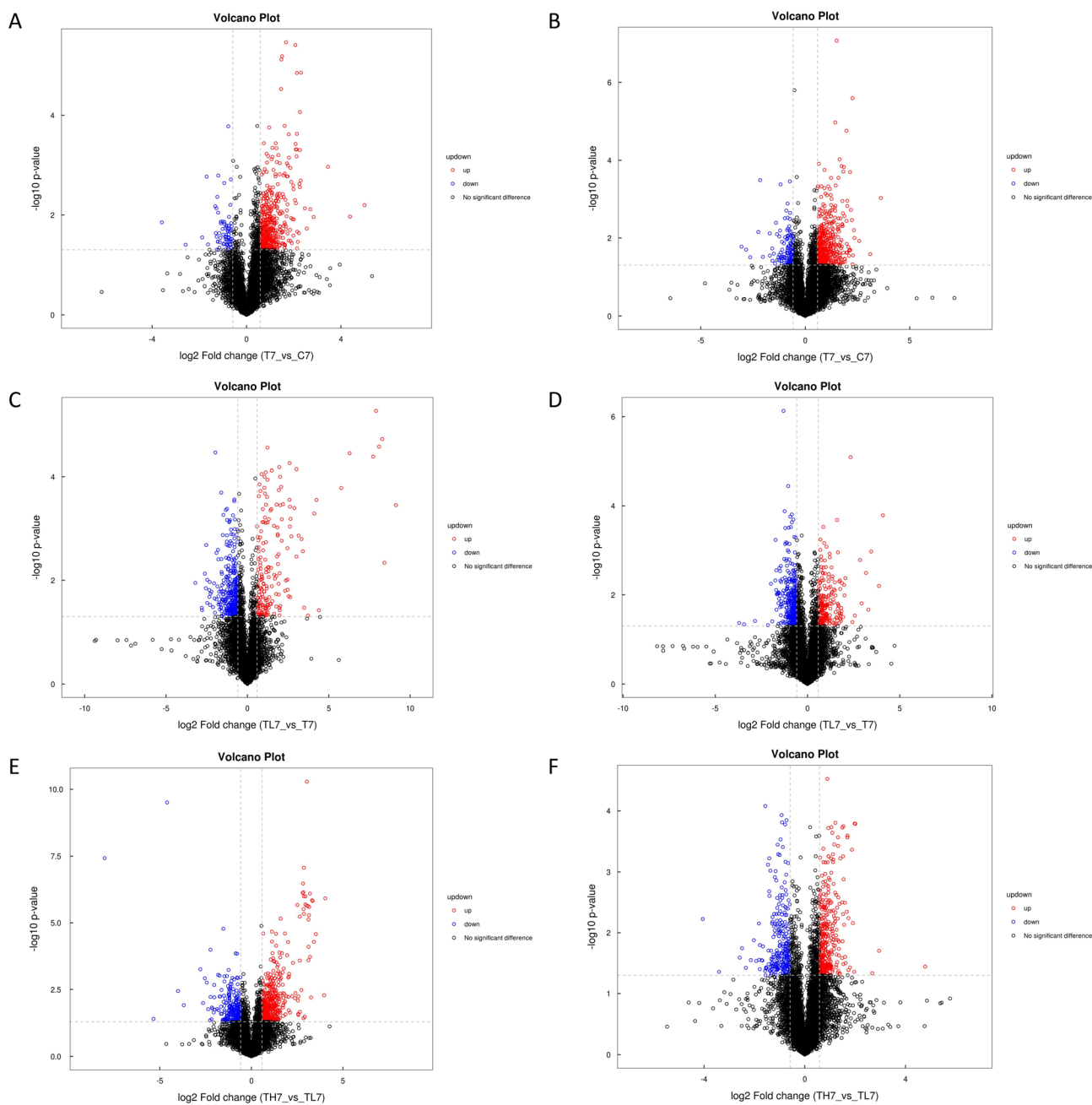
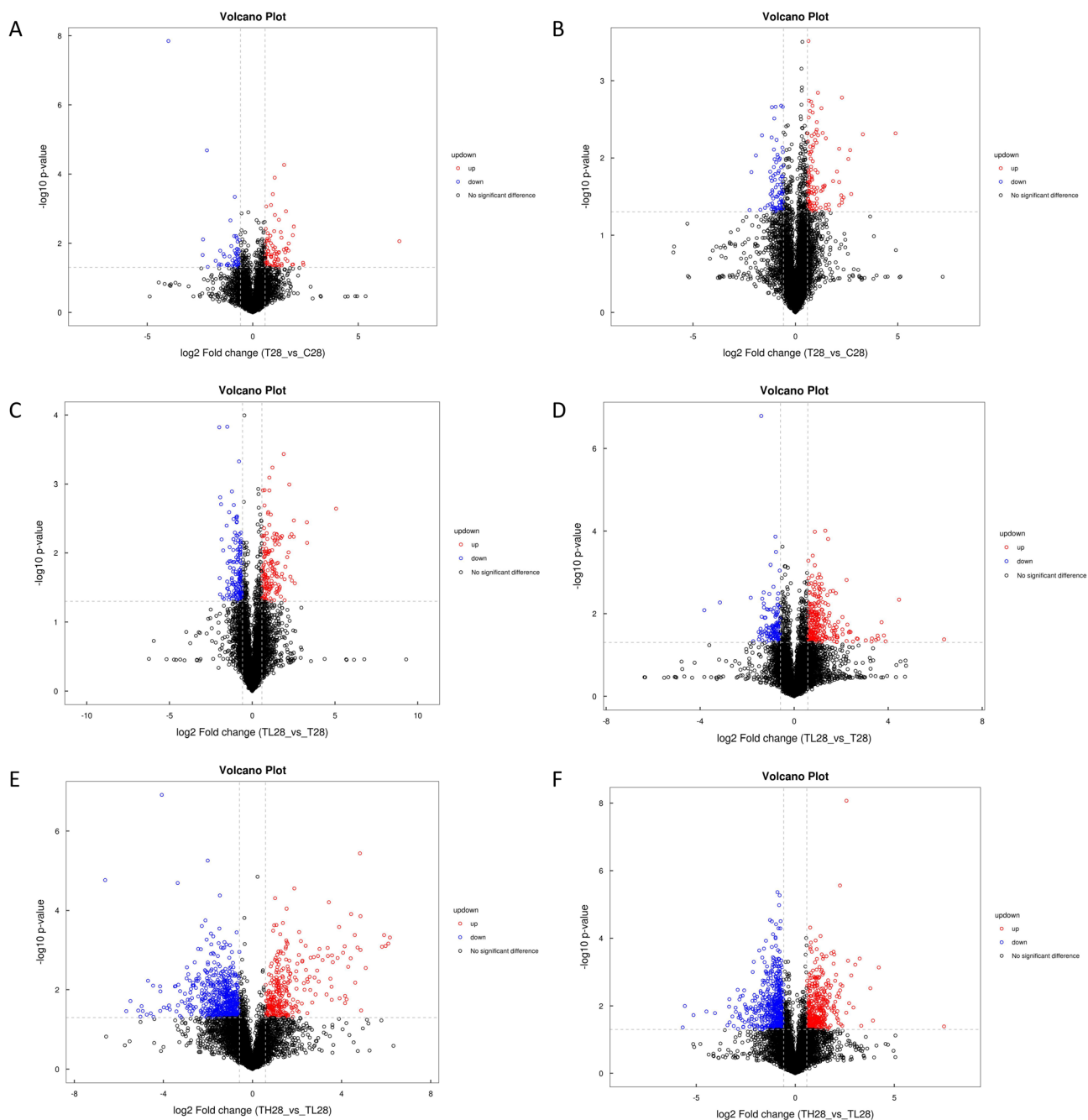


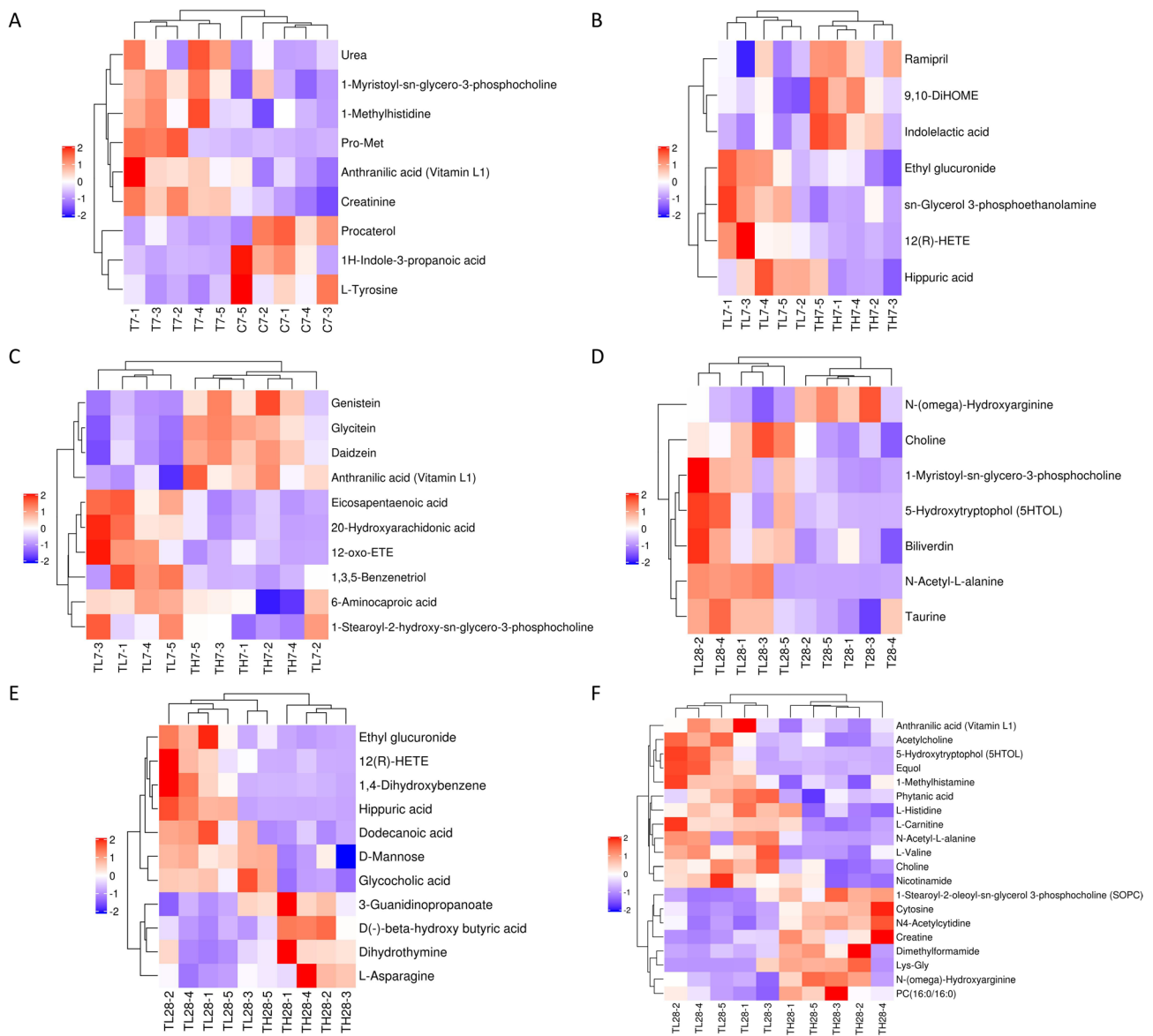
**Figure S1** Quality control sample analysis. (A) TIC in the negative ion mode; (B) TIC in the positive ion mode; (C) PCA plot in the negative ion mode; (D) PCA plot in the positive ion mode. TIC, total ion chromatogram; PCA, principal component analysis.



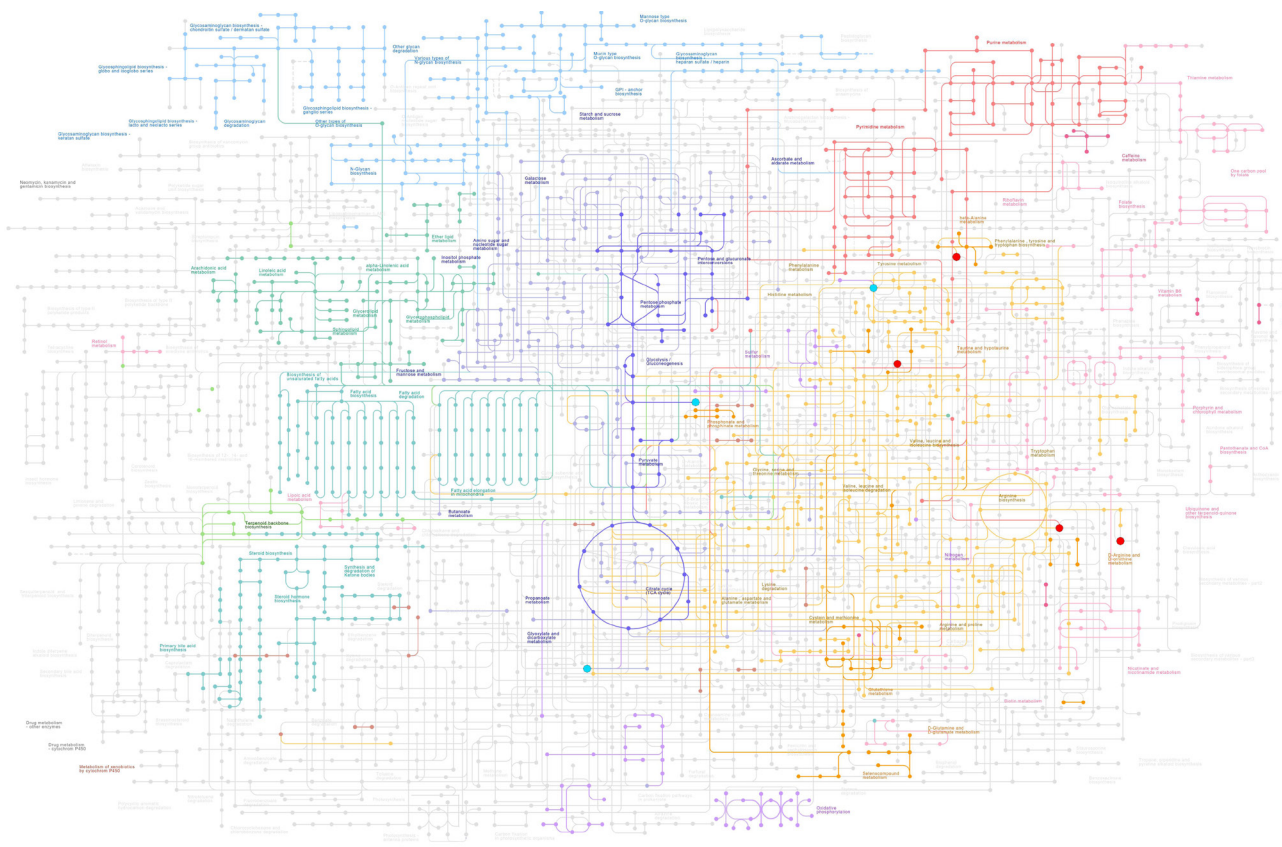
**Figure S2** Univariate statistical analysis between groups on day 7. (A) Metabolites with differential expression in the negative ion mode between the C7 group and T7 group; (B) metabolites with differential expression in the positive ion mode between the C7 group and T7 group; (C) metabolites with differential expression in the negative ion mode between the T7 group and TL7 group; (D) metabolites with differential expression in the positive ion mode between the T7 group and TL7 group; (E) metabolites with differential expression in the negative ion mode between the TL7 group and TH7 group; (F) metabolites with differential expression in the positive ion mode between the TL7 group and TH7 group.



**Figure S3** Univariate statistical analysis between groups on day 28. (A) Metabolites with differential expression in the negative ion mode between the C28 group and T28 group; (B) metabolites with differential expression in the positive ion mode between the C28 group and T28 group; (C) metabolites with differential expression in the negative ion mode between the T28 group and TL28 group; (D) metabolites with differential expression in the positive ion mode between the T28 group and TL28 group; (E) metabolites with differential expression in the negative ion mode between the TL28 group and TH28 group; (F) metabolites with differential expression in the positive ion mode between the TL28 group and TH28 group.



**Figure S4** Hierarchical clustering heatmap of significantly different metabolites. (A) Hierarchical clustering heatmap of differentially expressed metabolites between the C7 group and T7 group in the positive ion mode; (B) hierarchical clustering heatmap of differentially expressed metabolites between the TH7 group and TL7 group in the negative ion mode; (C) hierarchical clustering heatmap of differentially expressed metabolites between the TH7 group and TL7 group in the positive ion mode; (D) hierarchical clustering heatmap of differentially expressed metabolites between the T28 group and TL28 group in the positive ion mode; (E) hierarchical clustering heatmap of differentially expressed metabolites between the TL28 group and TH28 group in the negative ion mode; (F) hierarchical clustering heatmap of differentially expressed metabolites between the TL28 group and TH28 group in the positive ion mode.



**Figure S5** Metabolic pathways. TCA, tricarboxylic acid cycle; GPI, glucose-6-phosphate isomerase.