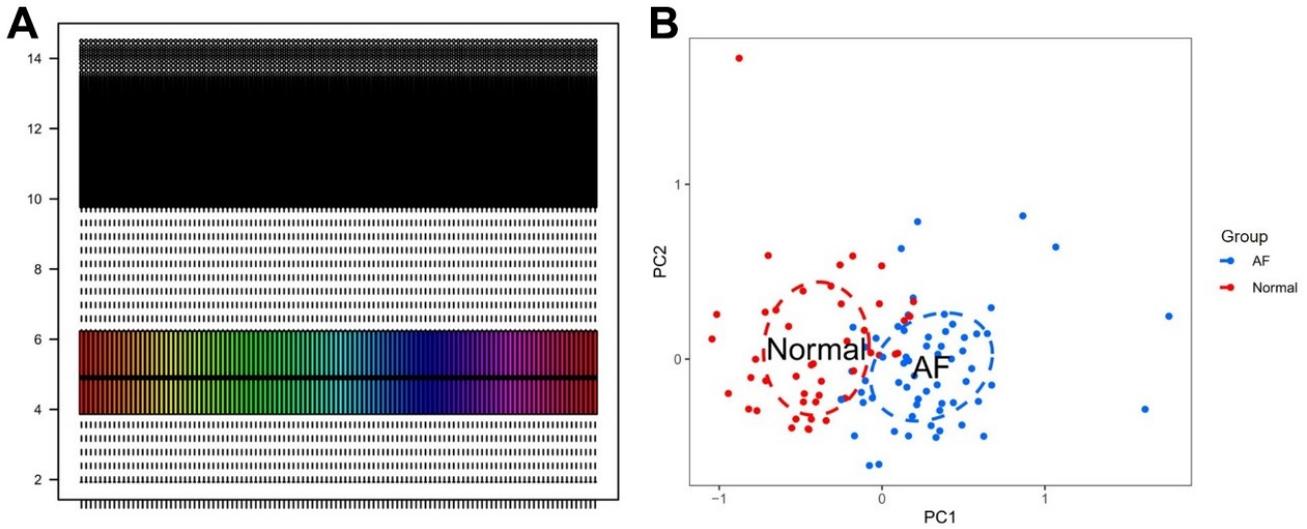
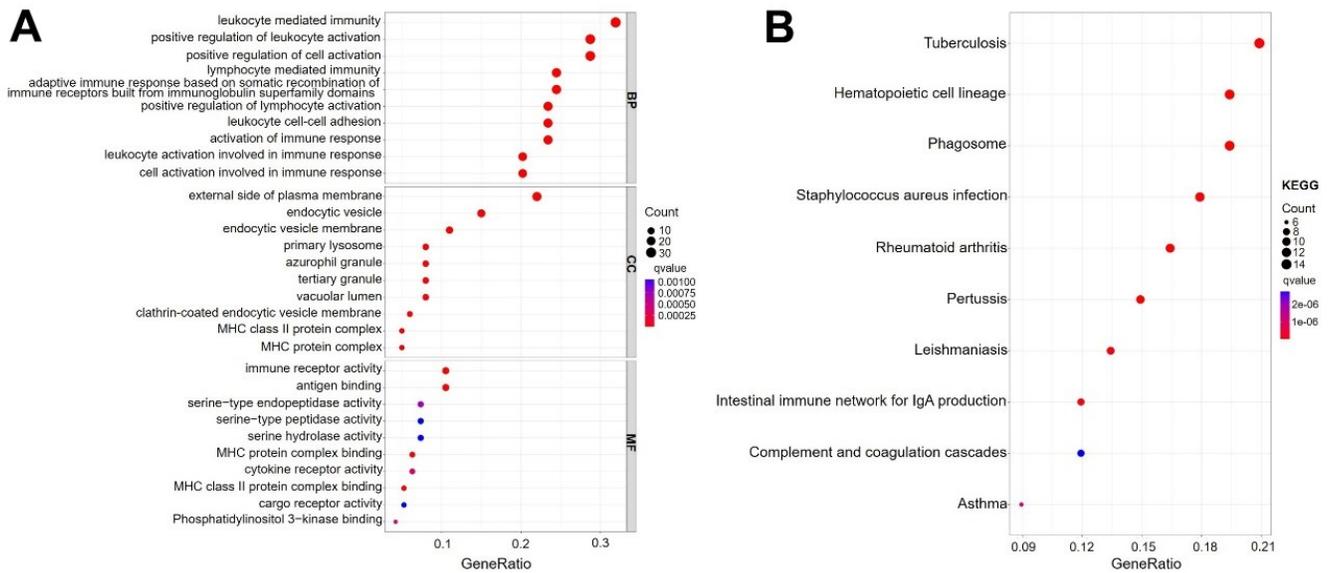


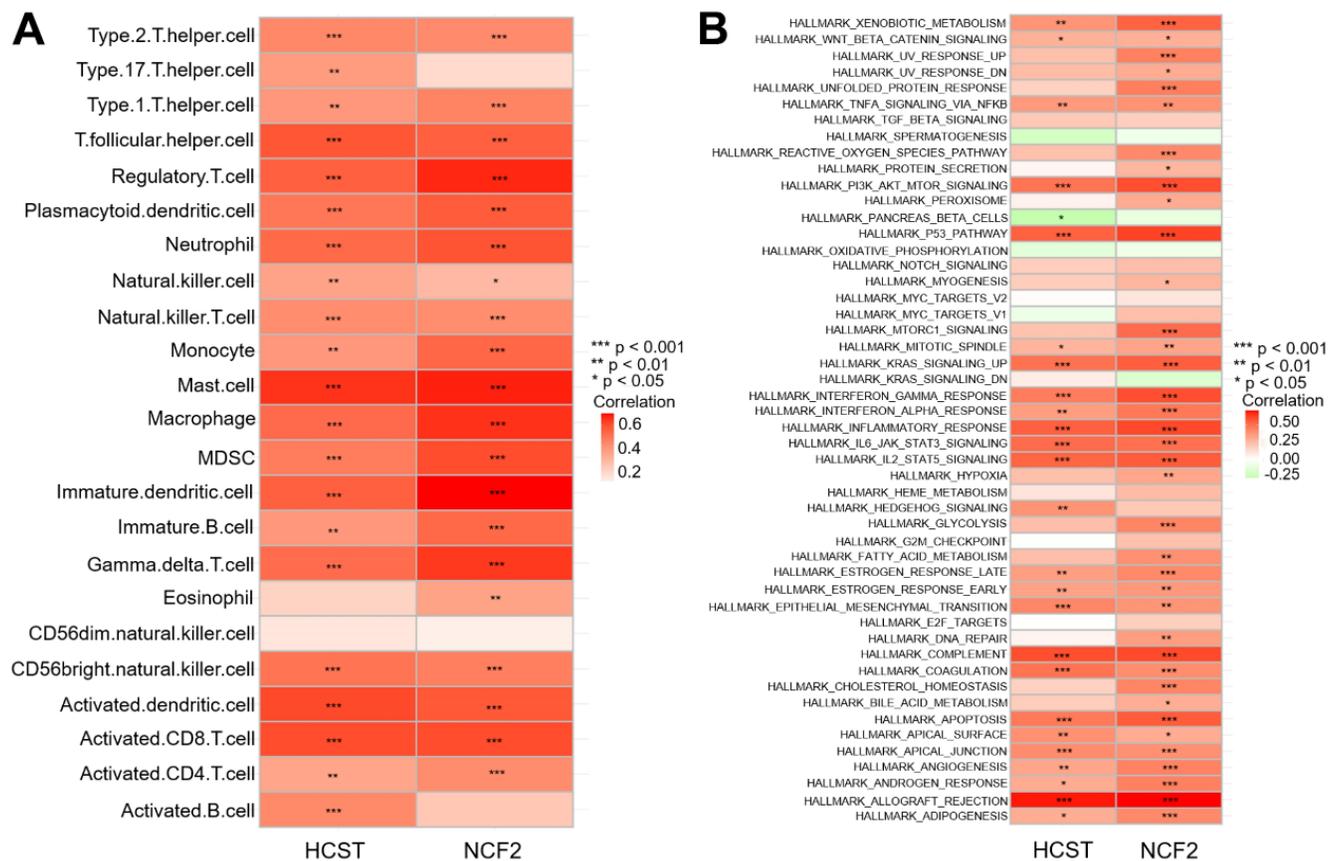
**SUPPLEMENTARY FIGURES**



**Supplementary Figure 1. Standardization and principal component analysis of all samples. (A) Normalized for all samples. (B) Principal component analysis for all samples.**



**Supplementary Figure 2. Enrichment analysis of the genes in the meaningful modules. (A) GO functional enrichment analysis. (B) KEGG pathways analysis. The gene number was represented at x-axis, the KEGG pathway and GO terms were presented at y-axis.**



**Supplementary Figure 3. Heatmap of correlations between *NCF2* as well as *HCST* genes and infiltrating immune cells and 50 HALLMARKS pathways. (A) The relationship between infiltrating immune cells and the *NCF2* and *HCST* genes. (B) The relationship between 50 HALLMARKS pathways and the *NCF2* and *HCST* genes. \**P* < 0.05; \*\**P* < 0.01; \*\*\**P* < 0.001.**