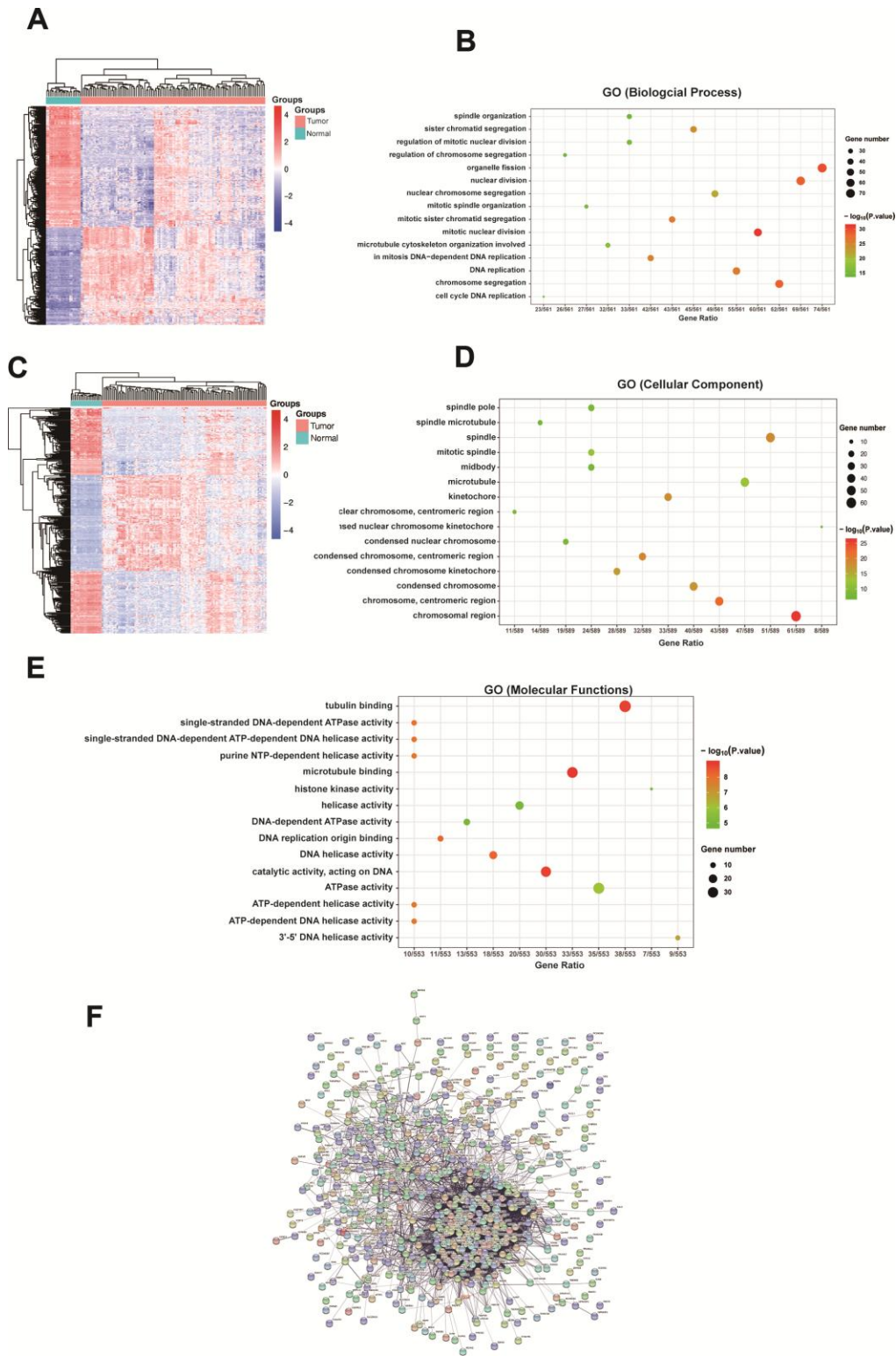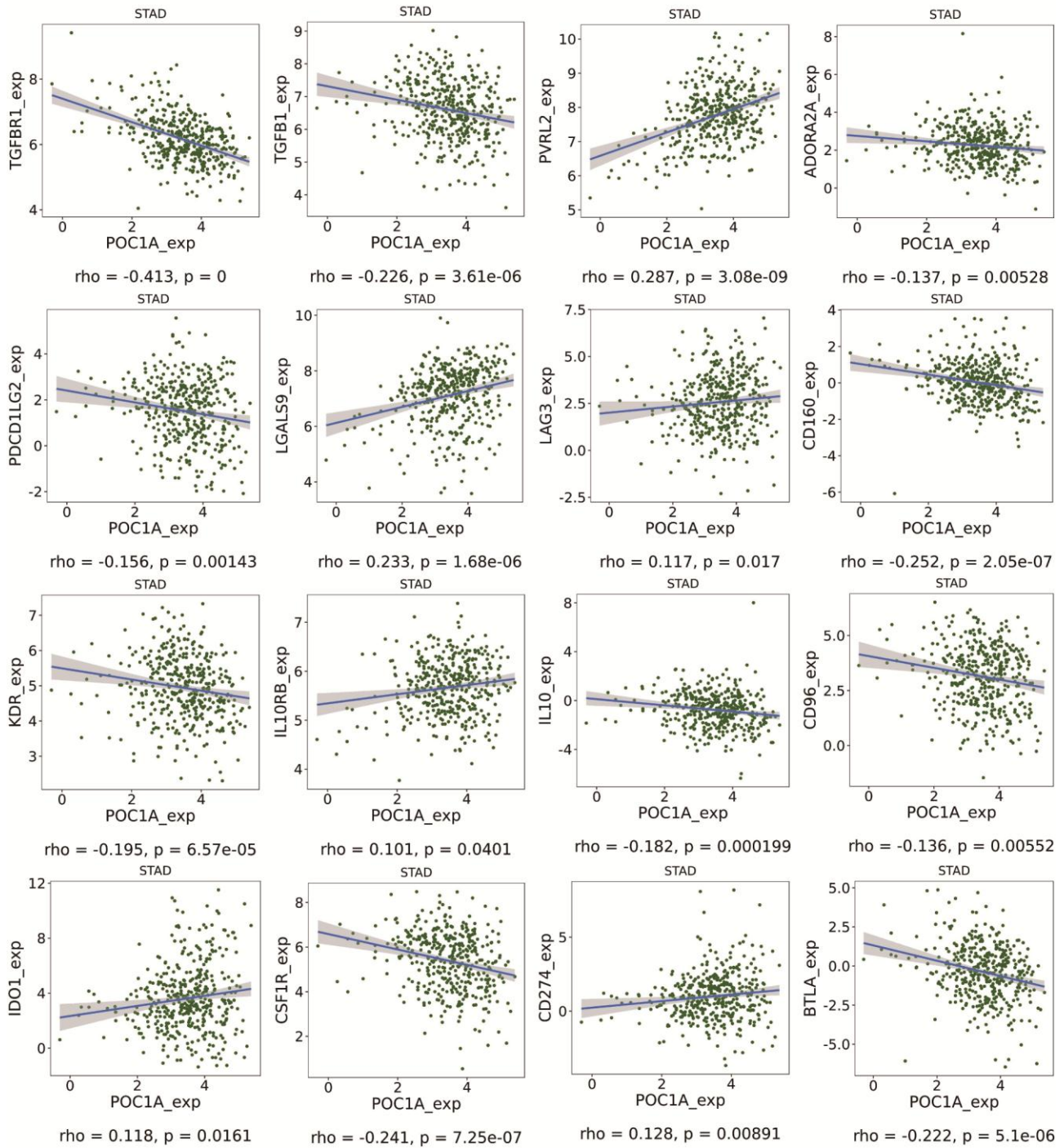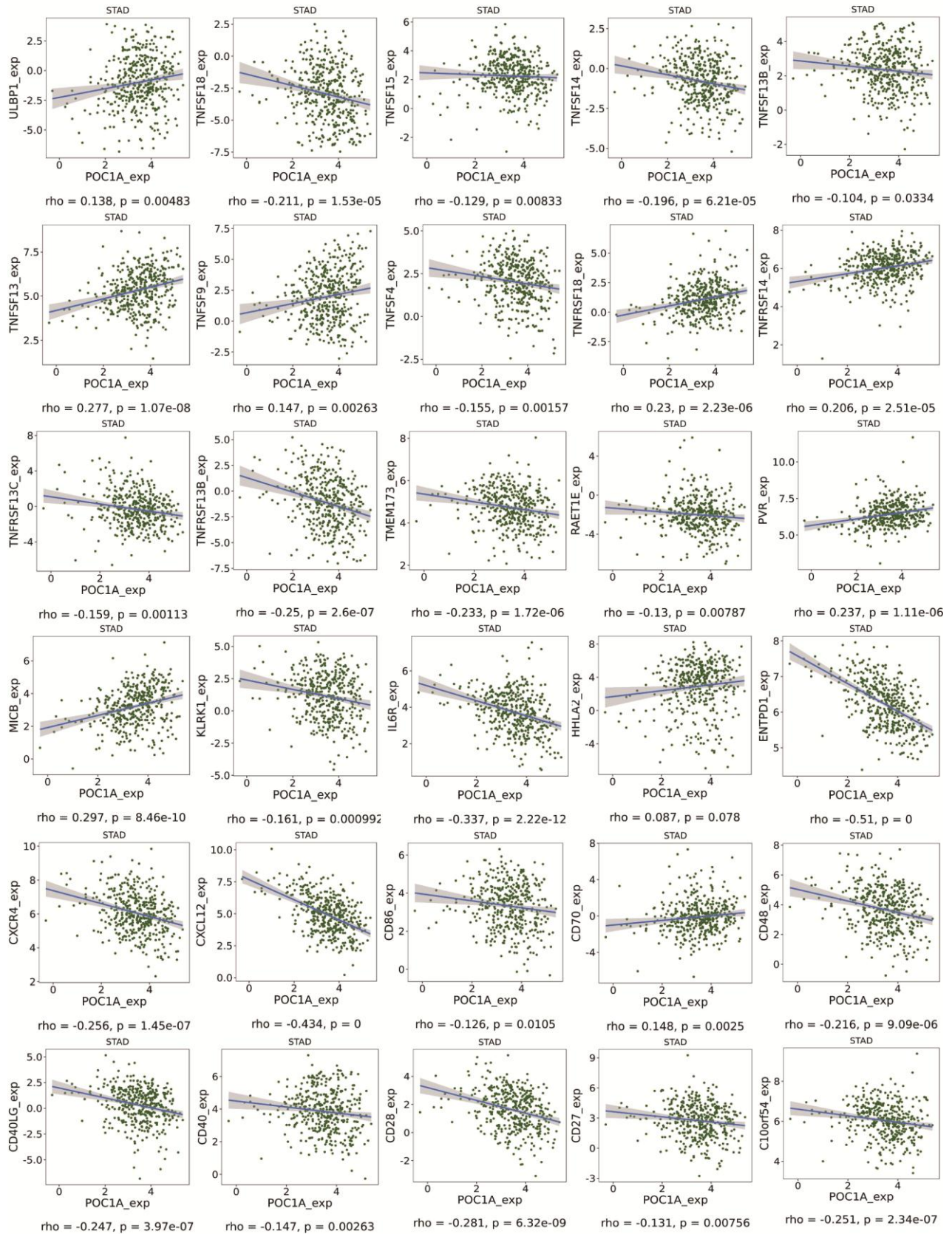**Supplementary Figure 1. The bioinformatic analysis of POC1A.** (**A**, **B**) Heat map showing the expression of all genes and differently expressed genes in GSE54129; (**C–E**) GO enrichment analysis of POC1A co-expression genes; (**F**) Protein-protein interaction (PPI) network of genes strongly coexpressed with POC1A.

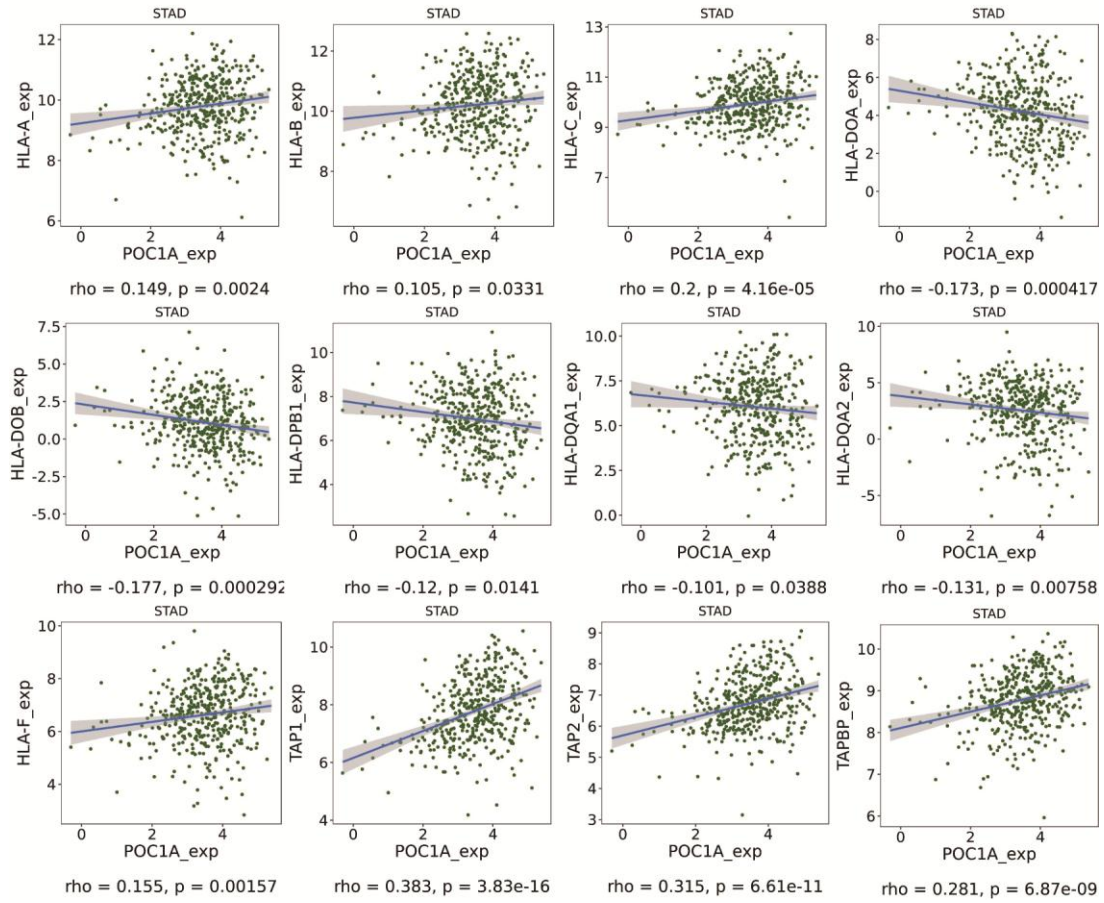**Supplementary Figure 2. Significant correlation between POC1A and several immunoinhibitors.**

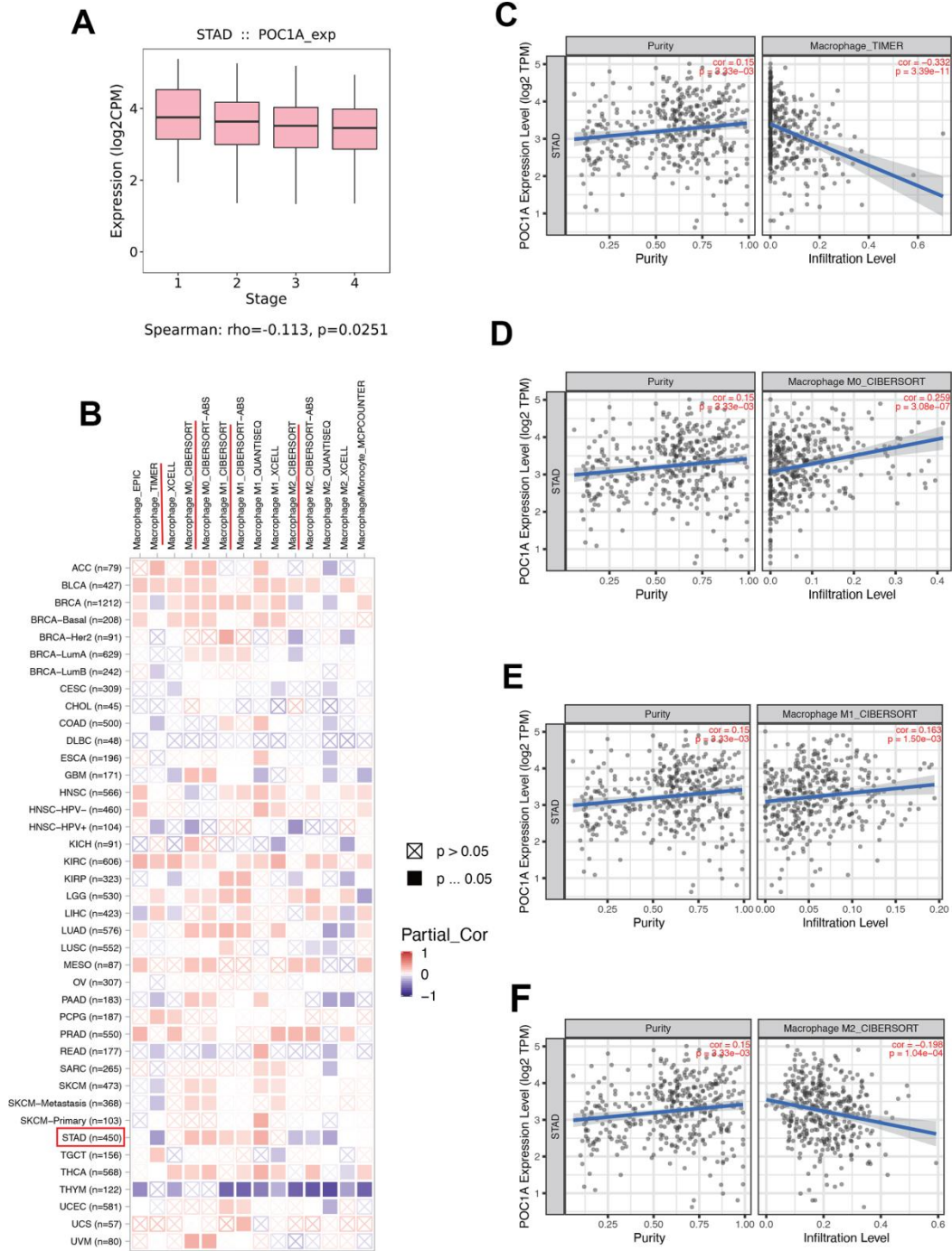**Supplementary Figure 3. Significant correlation between POC1A and several immunostimulators.**

Supplementary Figure 4. Significant correlation between POC1A and several MHC molecular.

Supplementary Figure 5. The sense POC1A in clinical prognosis and immune infiltration. (**A**) Expression of POC1A had significant negative correlation with TNM stages (R=-0.1, p=0.02) according to the TISIDB; (**B**) Heatmap of correlation between POC1A expression and immune infiltration level of macrophages among different datasets and different cancer types; (**C–F**) Scatter plots of correlation between POC1A expression and immune infiltration of different macrophages in STAD.