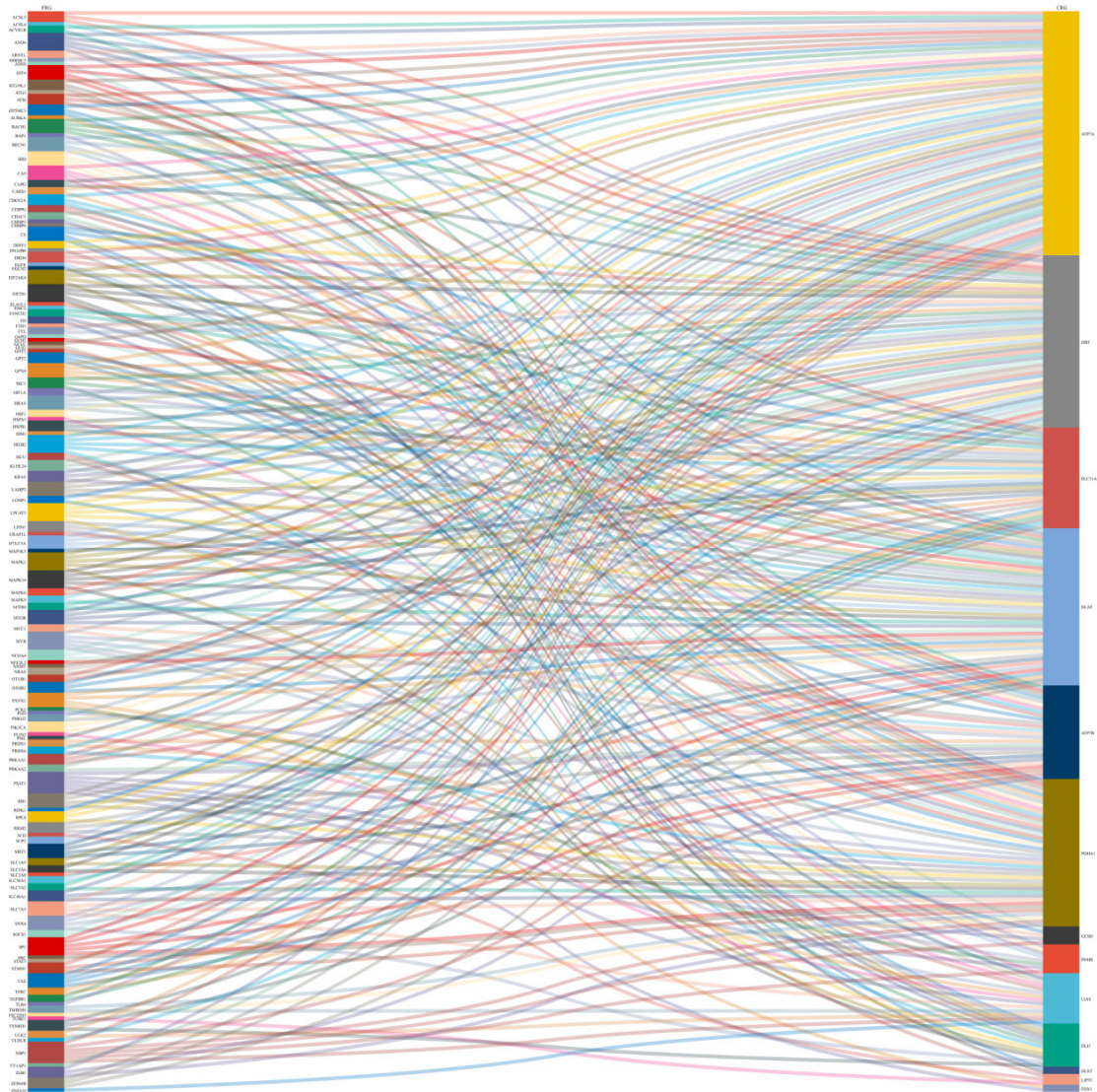
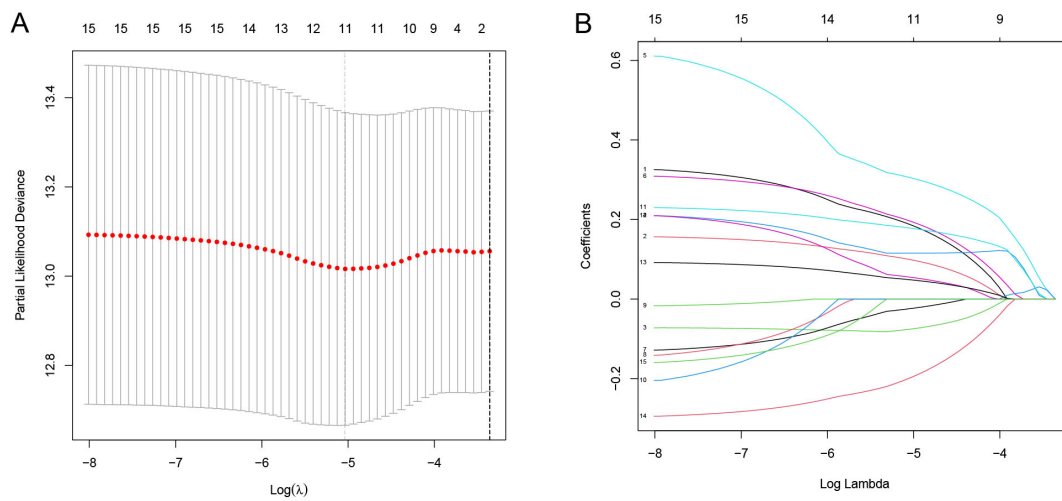


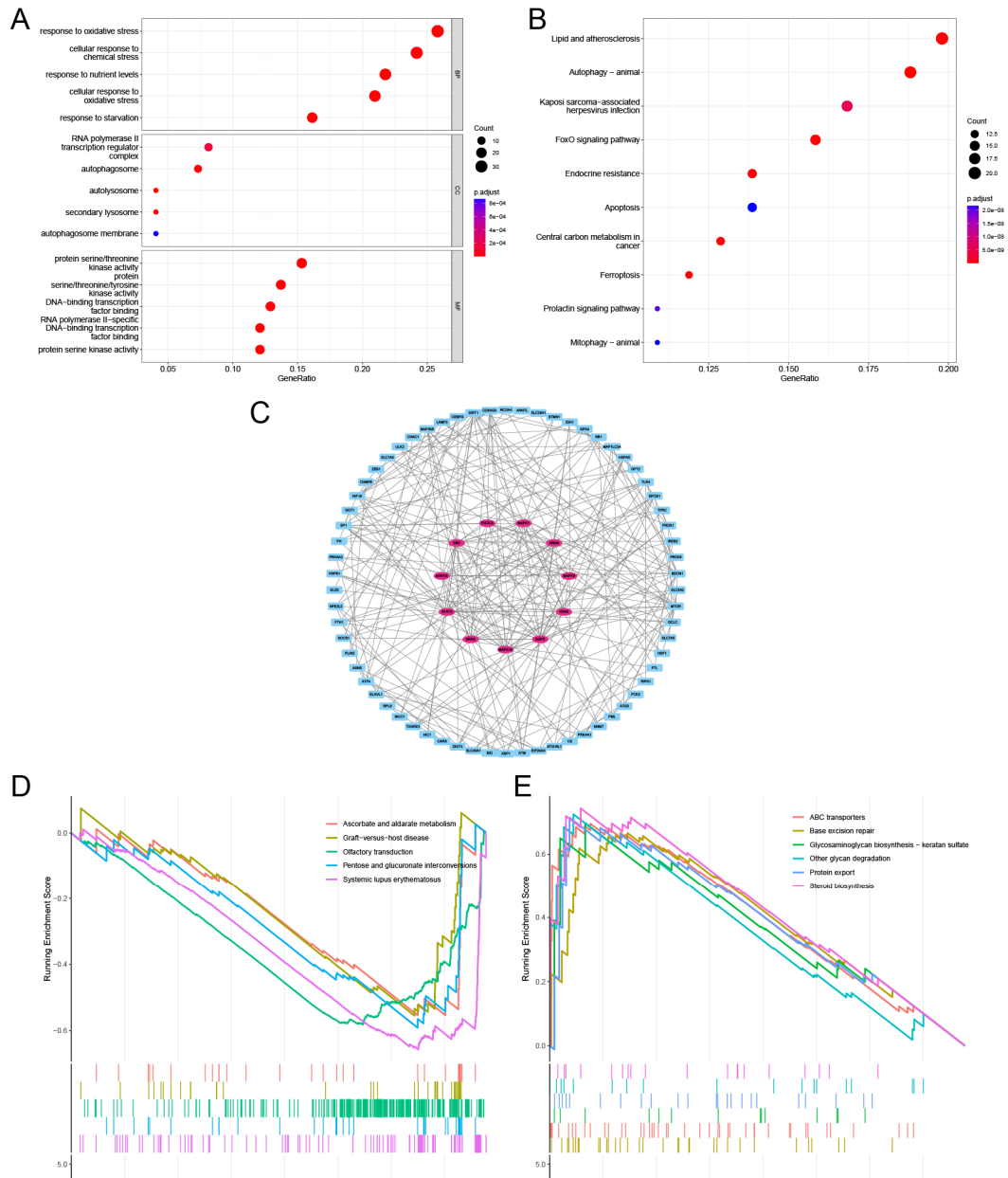
## Supplementary Data



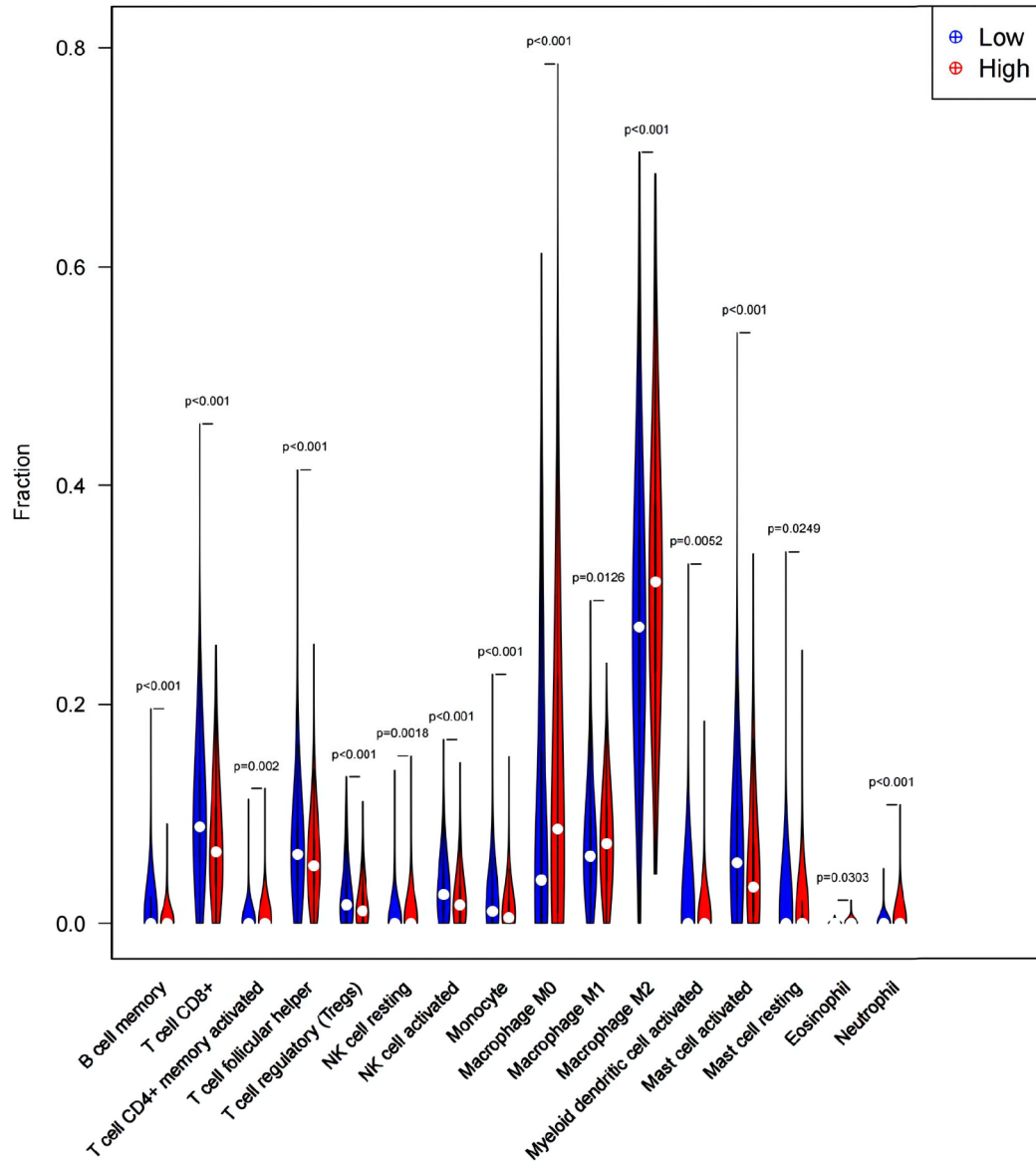
**Supplementary Figure.1 Sankey's diagram showed the correlation between ferroptosis-related genes and cuproptosis-related genes.**



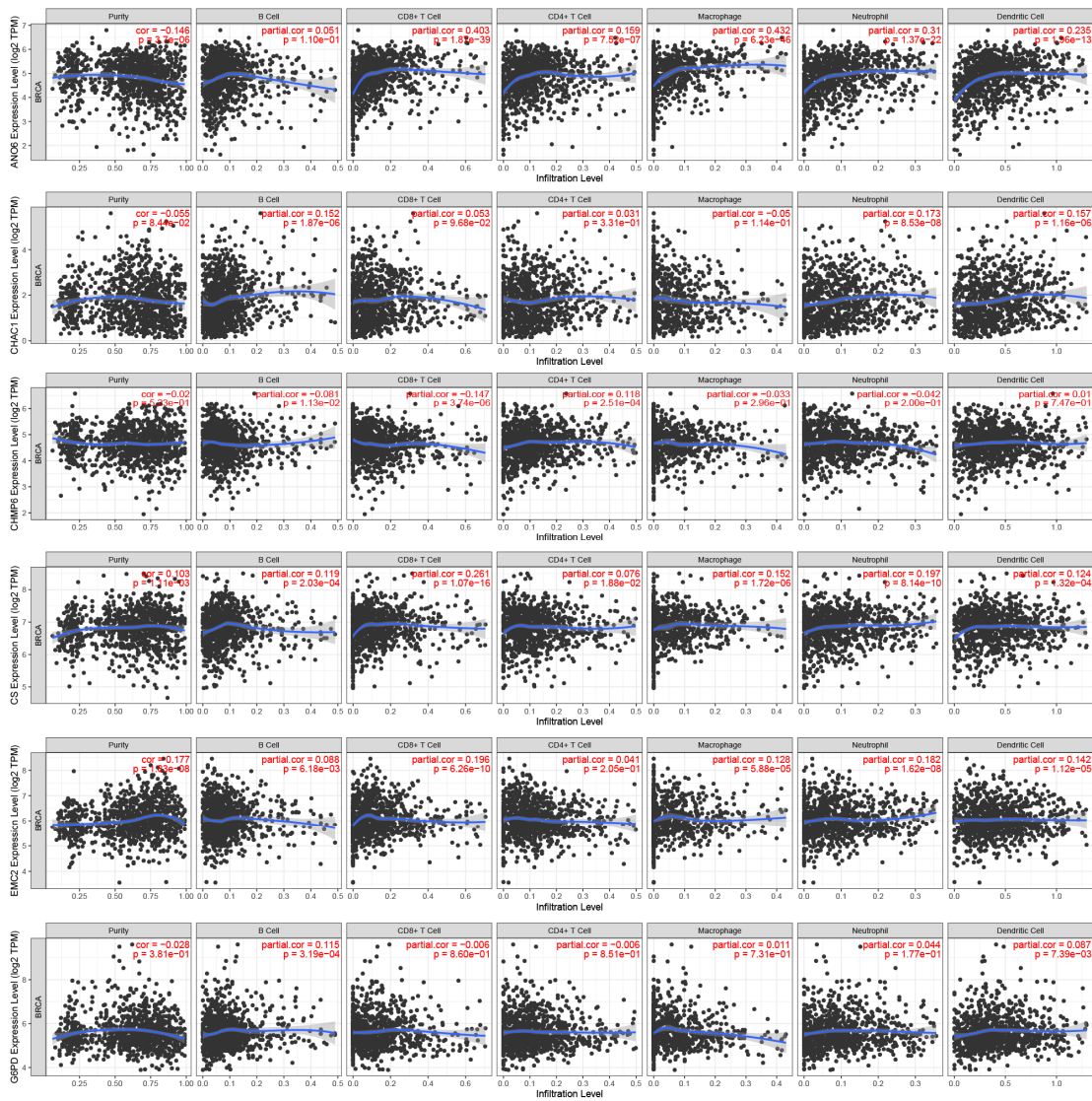
**Supplementary Figure.2 (A)** LASSO regression screened cuproptosis-related FRGs at the minimum point of cross-validation. **(B)** The trajectory of each independent variable. FRGs, ferroptosis-related genes; LASSO, least absolute shrinkage and selection operator.



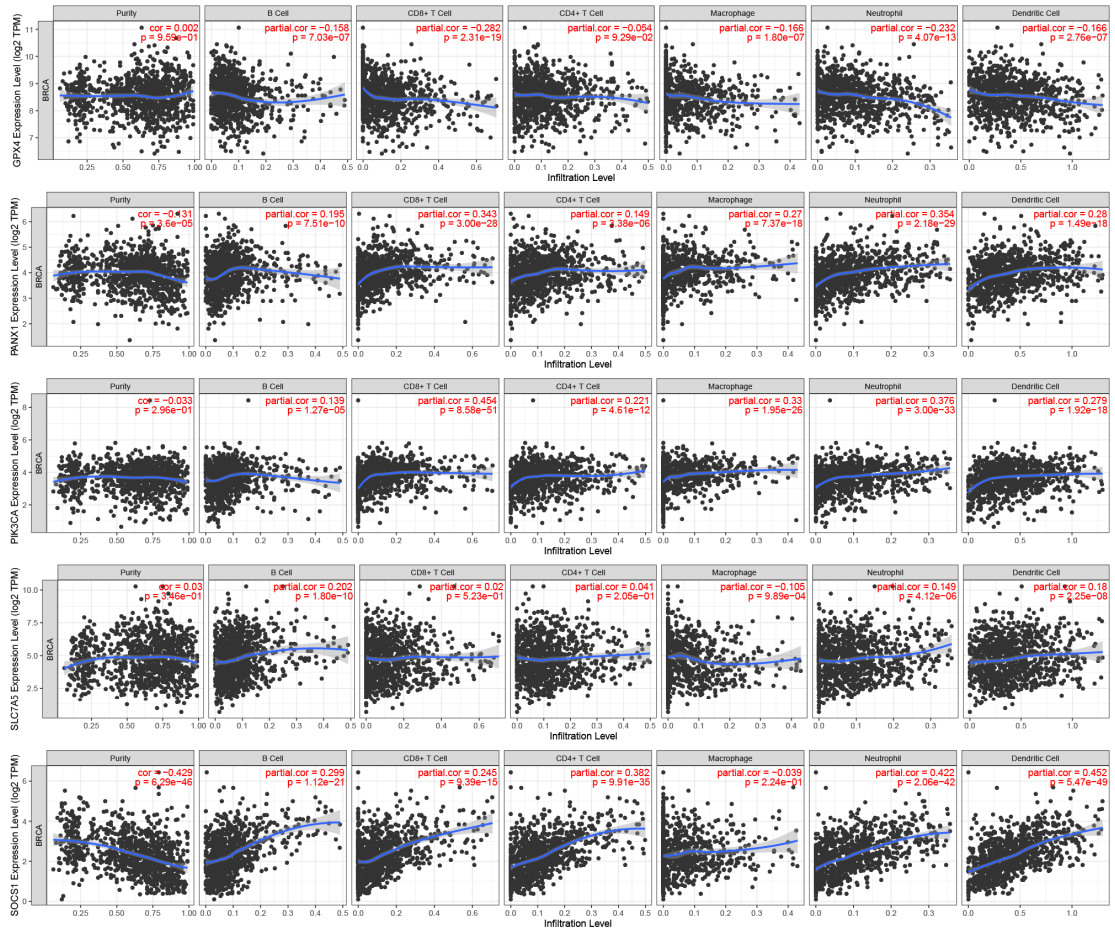
**Supplementary Figure.3** Enrichment analyses of differentially expressed cuproptosis-related FRGs. **(A)** GO analysis; **(B)** KEGG analysis. **(C)** Protein-protein interaction network of differentially expressed cuproptosis-related FRGs. **(D-E)** Gene set enrichment analysis of high- and low-risk groups. FRGs, ferroptosis-related genes; GO, gene ontology; KEGG, kyoto encyclopedia of genes and genomes



**Supplementary Figure.4 Differences in immune cells between the high- and low-risk groups by CIBERSORT.**



**Supplementary Figure.5 Immune cells infiltration of 11 cuproptosis-related FRGs by TIMER database.**



**Supplementary Figure.6 Immune cells infiltration of 11 cuproptosis-related FRGs by TIMER database.**