Identification of key ferroptosis-related targets in colorectal cancer: A multiomics study via machine learning and AUcell analysis of single-cell RNA-sequencing

ZhiqiangLiang^{1,†}, ZehuiHou^{1,†}, ZhuominYu^{1,†}, BingZeng¹, FangLi², JingjingWu², YingruLi^{1,‡}, ZhipengJiang^{2,‡}

¹Department of General Surgery, Hernia and Abdominal Wall Surgery, The Sixth Affiliated Hospital, Sun Yat-sen University, Guangzhou City510655,

Guangdong Province, China

²Division of Gastrointestinal Surgery, Department of General Surgery, Shenzhen People's Hospital (The Second Clinical Medical College, Jinan University;

The First Affiliated Hospital, Southern University of Science and Technology), Shenzhen 518020, Guangdong Province, China

* Corresponding author: E-mail address: jzpsums@126.com(Z. Jiang); liyingru@mail.sysu.edu.cn(Y. LI);

Fig. S1. Flow chart of this study

Fig. S2. The results of Gene Set Enrichment Analysis - Kyoto Encyclopedia of Genes and Genomes (GSEA-KEGG) pathway analyses for the AQP8 protein.

Fig. S3. The results of Gene Set Enrichment Analysis - Kyoto Encyclopedia of Genes and Genomes (GSEA-KEGG) pathway analyses for the NOX4 protein.

Fig. S4. The results of Gene Set Enrichment Analysis - Kyoto Encyclopedia of Genes and Genomes (GSEA-KEGG) pathway analyses for the NR5A2 protein.

Fig. S5. The results of Gene Set Enrichment Analysis - Kyoto Encyclopedia of Genes and Genomes (GSEA-KEGG) pathway analyses for the SCD protein .

Fig. S6. The results of Gene Set Enrichment Analysis - Kyoto Encyclopedia of Genes and Genomes (GSEA-KEGG) pathway analyses for the TIMP1protein.

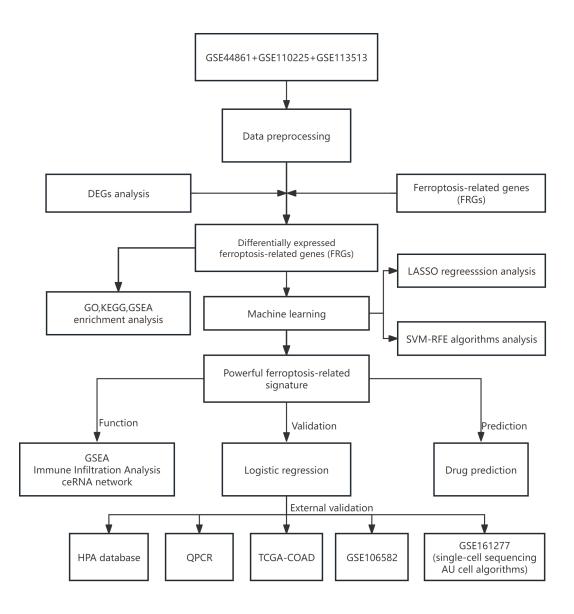
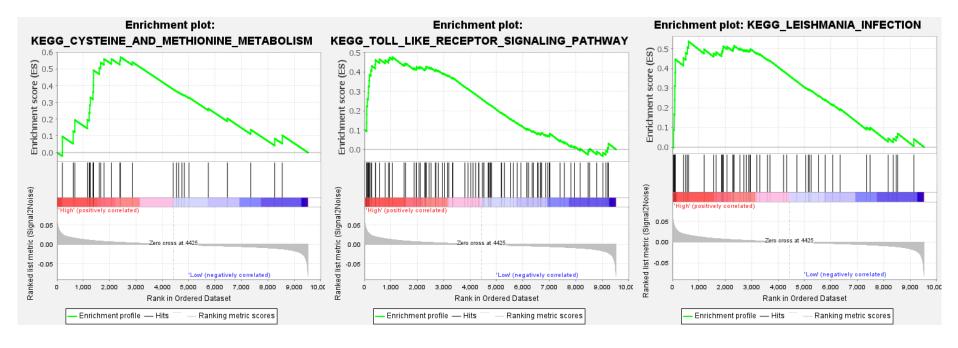


Fig. S1. Flow chart of this study



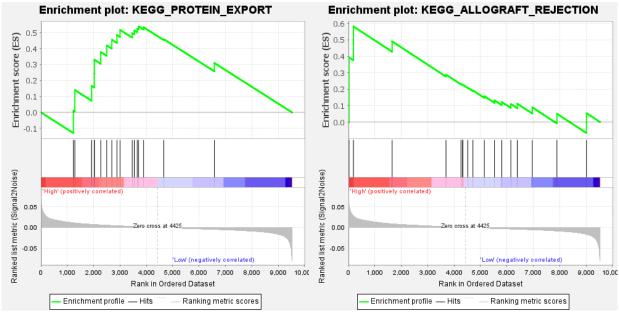
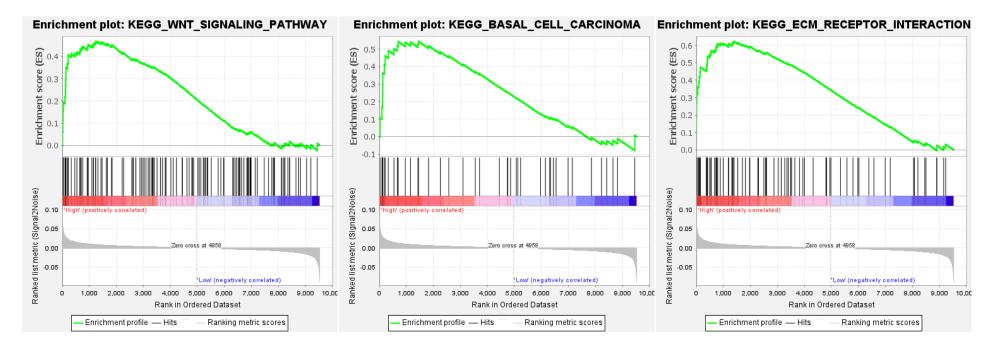


Fig. S2.The results of Gene Set Enrichment Analysis - Kyoto Encyclopedia of Genes and Genomes (GSEA-KEGG) pathway analyses for the AQP8 protein (An examination of the top five routes using).



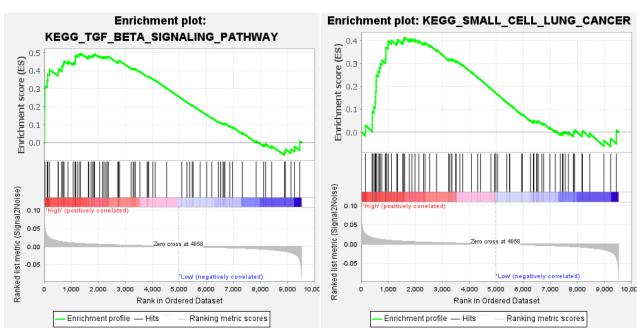
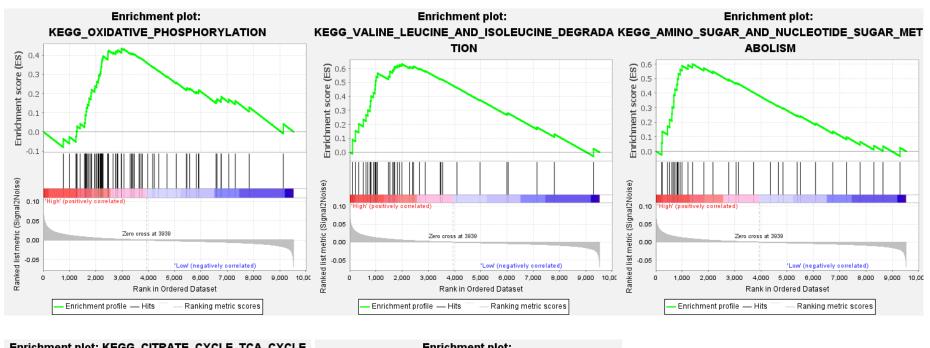


Fig. S3.The results of Gene Set Enrichment Analysis - Kyoto Encyclopedia of Genes and Genomes (GSEA-KEGG) pathway analyses for the NOX4 protein (An examination of the top five routes using).



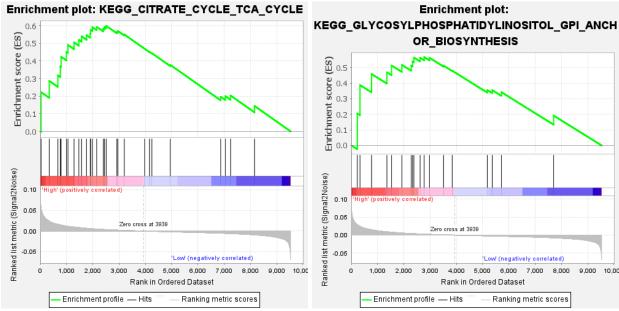


Fig. S4.The results of Gene Set Enrichment Analysis - Kyoto Encyclopedia of Genes and Genomes (GSEA-KEGG) pathway analyses for the NR5A2 protein (An examination of the top five routes using).

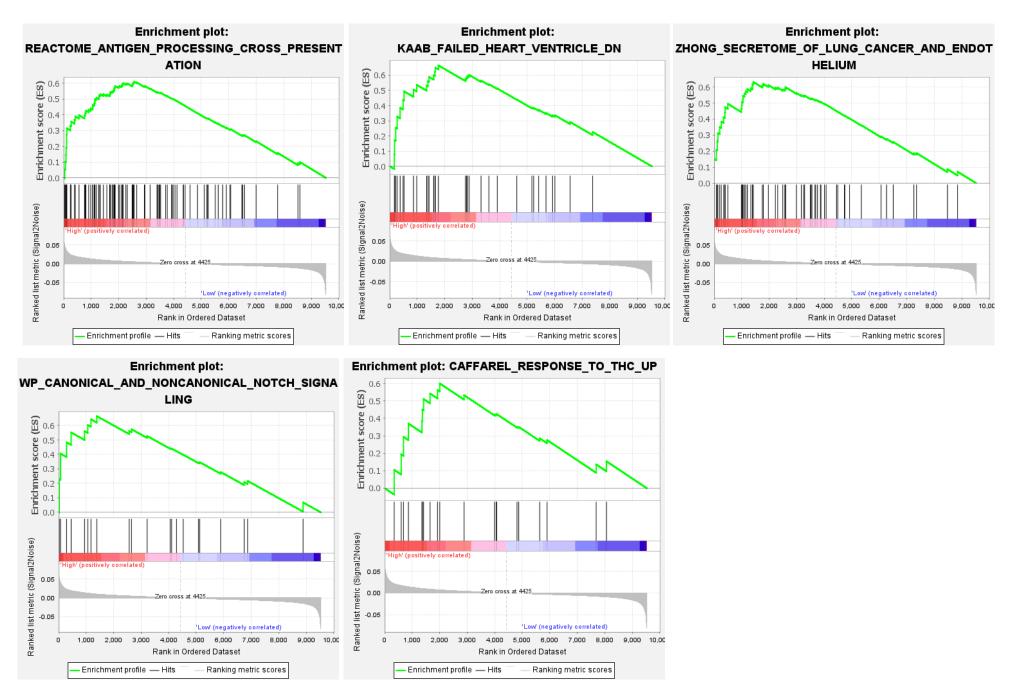
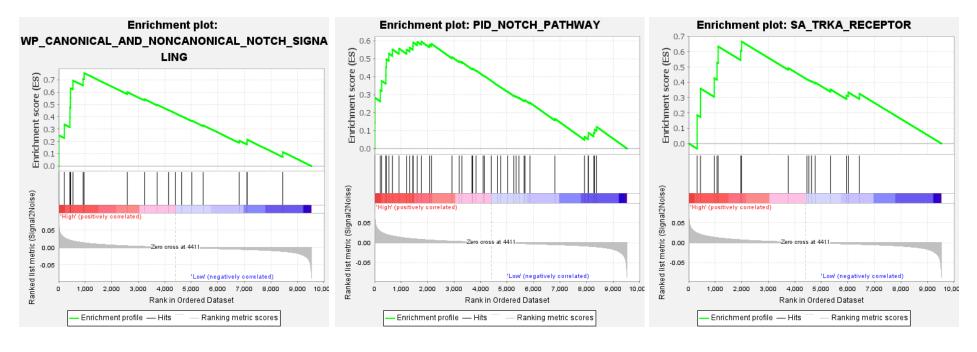


Fig. S5.The results of Gene Set Enrichment Analysis - Kyoto Encyclopedia of Genes and Genomes (GSEA-KEGG) pathway analyses for the SCD protein (An examination of the top five routes using).



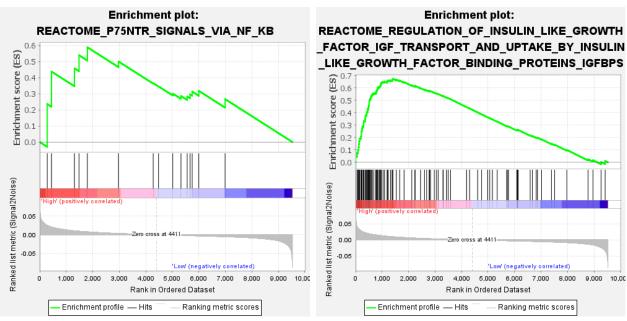


Fig. S6.The results of Gene Set Enrichment Analysis - Kyoto Encyclopedia of Genes and Genomes (GSEA-KEGG) pathway analyses for the TIMP1protein (An examination of the top five routes using).