Supplementary file

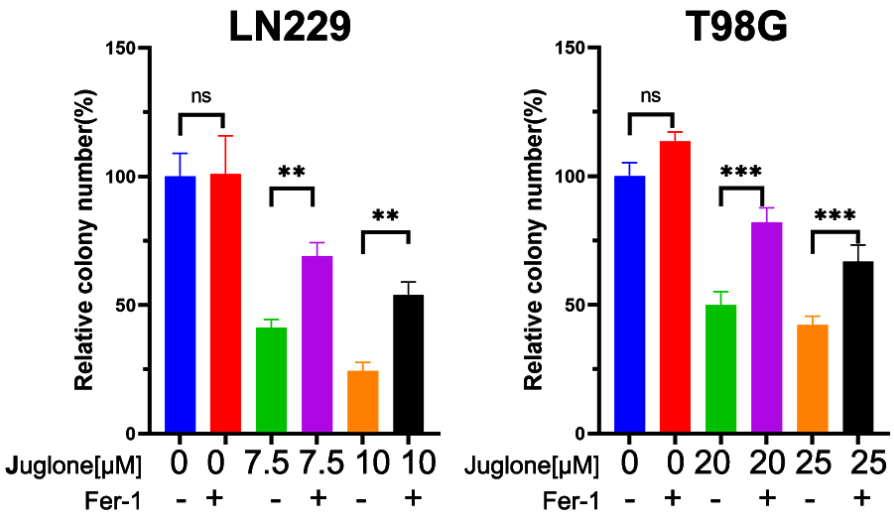
Table S1

Antibodies	Source	Identifier
ACSL4	Abcam	ab155282
PTGS2	Abcam	ab15191
GPX4	Abcam	ab125066
Ki67	Abcam	ab16667
4HNE	Abcam	ab46545
XCT	Cell Signaling Technology	12691S
FTH1	Cell Signaling Technology	4393S
p38	Cell Signaling Technology	9212S
pp38	Cell Signaling Technology	9215S
JNK	Cell Signaling Technology	9251S
p-JNK	Cell Signaling Technology	9252S
GSK3α/β	Cell Signaling Technology	5676S
p-GSK3α/β	Cell Signaling Technology	8566S
MMP2	Cell Signaling Technology	40994S
MMP9	Cell Signaling Technology	13667S
TFRC	Invitrogen	13-6800
α-Tubulin	HuaBio	ER130905
GAPDH	HuaBio	ET1601-4

Table S2

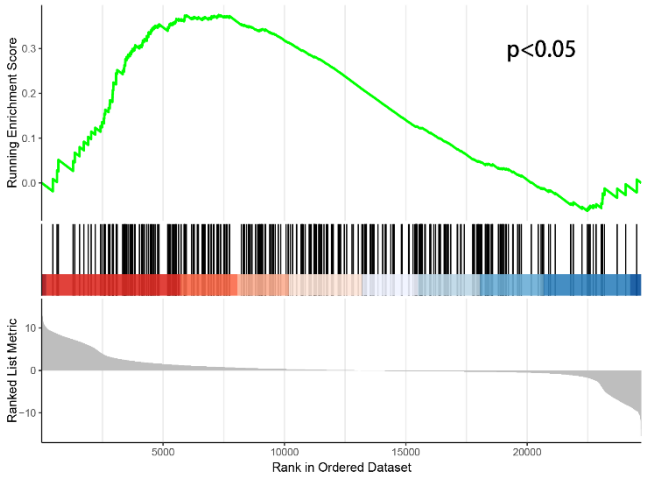
si-Nrf2-1 sense: 5′-GCAUGCUACGUGAUG AAGATT-3′;
antisense: 5′-UCUUCAUCACGUAGCAUG CTT-3′
si-Nrf2-2 sense:5′-UCUUCAUCACGUAGCAUGCTT-3′;
antisense: 5′-GCAUGCUAC GUGAUGAAGATT-3′)

Fig.S1



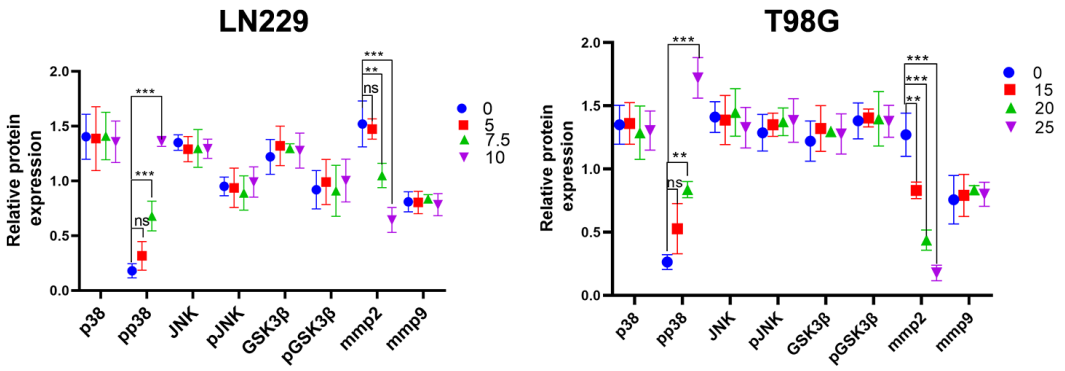
LN229 and T98G cells were treated with Juglone combined or not with Fer-1,the number of cell clones was counted and analyzed. **,$p < 0.01$; ***,$p < 0.001$;ns, no significant difference

Fig. S2



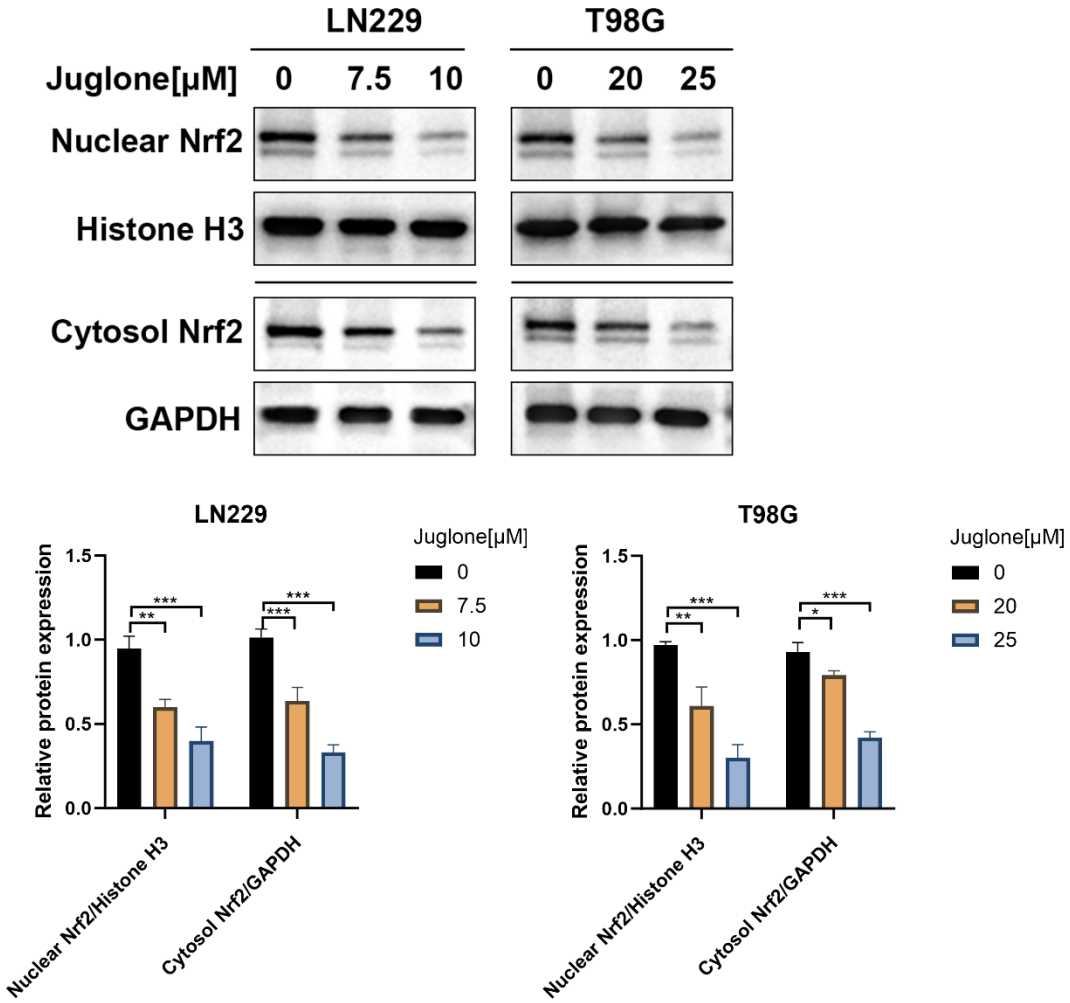
The association between the significantly different genes in the transcriptome and the ferroptosis gene dataset has been identified through the GSEA analysis using the R package“clusterProfiler”.

Fig. S3



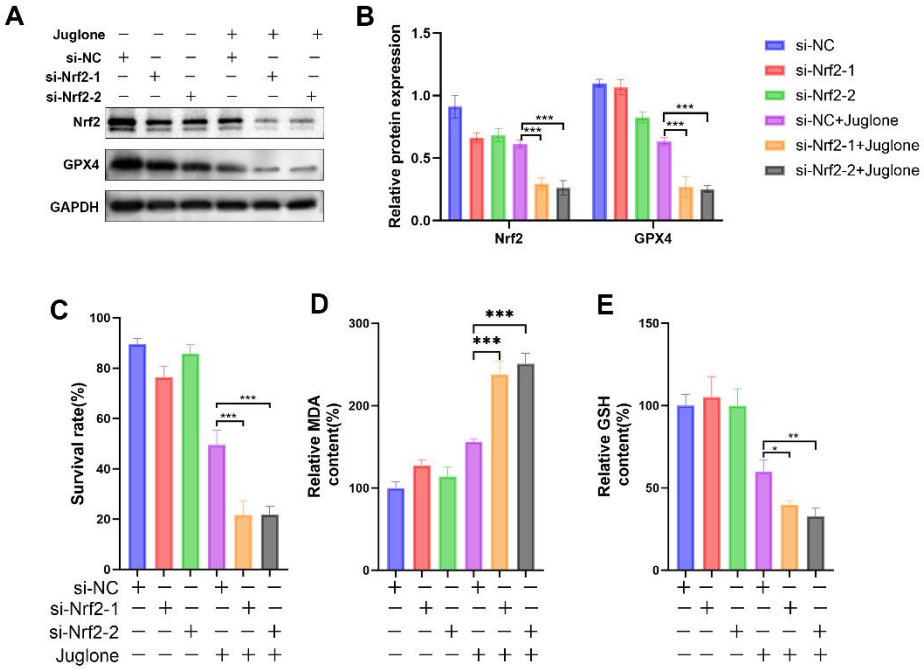
The expression of key proteins selected in LN229 and T98G cells under the action of juglone through WB experiments. **,p < 0.01; ***,p < 0.001;ns, no significant difference.

Fig. S4



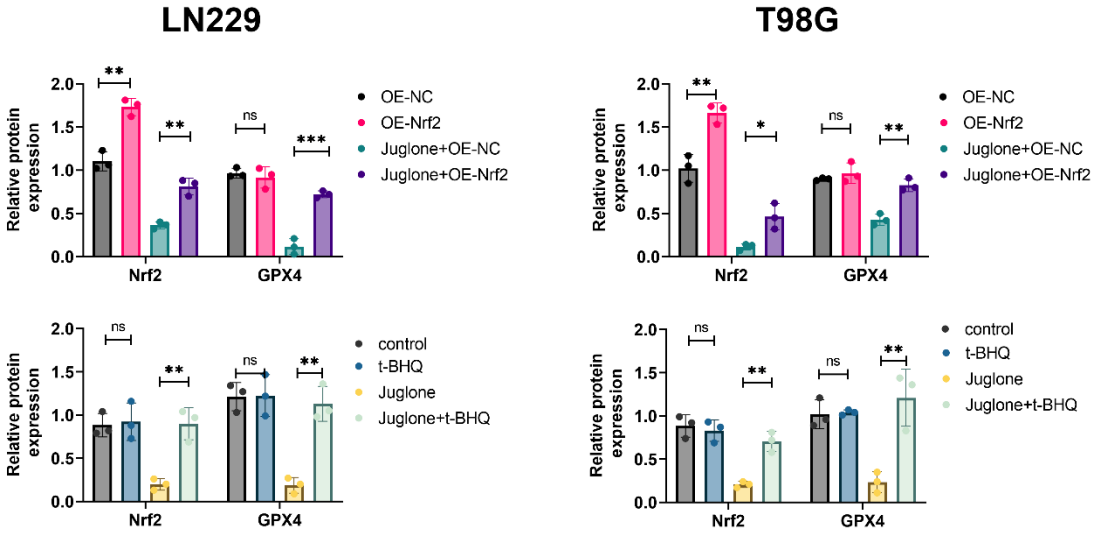
The WB experiment showed the protein expression level of Nrf2 in the cytoplasm and nucleus under the influence of juglone. *,p<0.05; **,p < 0.01; ***,p < 0.001.

Fig. S5



A.B. After Nrf2 was knocked down by siRNA, the protein expression levels of Nrf2 and GPX4 in T98G cells were further reduced 24 hours after the treatment with juglone (25μM). **C.** The cell survival viability was assessed by CCK8 assay. **D.E.** The levels of MDA and GSH were measured in Nrf2-knockdown T98G cells pretreated with or without juglone (25μM). *,$p<0.05$; **,$p < 0.01$; ***,$p < 0.001$.

Fig. S6



Protein expression levels of GPX4 and Nrf2 in LN229 and T98G cells after 24 hours of treatment with juglone in combination with t-BHQ (20μM, preprocessed for 1h) or overexpression of Nrf2,

based on WB experiment. *,p<0.05;**;p < 0.01; ***,p < 0.001;ns, no significant difference