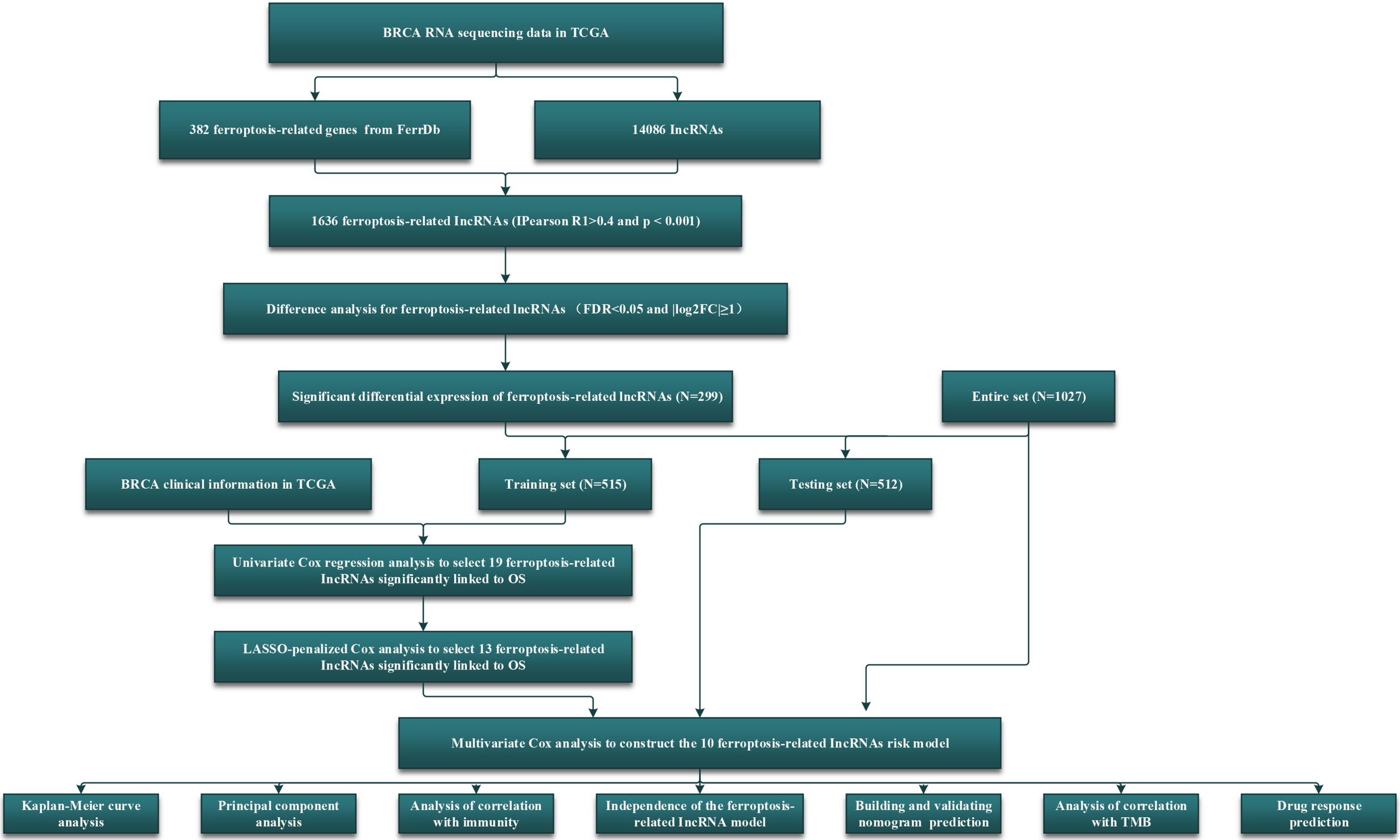
BRCA RNA sequencing data in TCGA
382 ferroptosis-related genes from FerrDb
14086 lncRNAs
1636 ferroptosis-related lncRNAs (|Pearson R|>0.4 and p < 0.001)
Difference analysis for ferroptosis-related lncRNAs （FDR<0.05 and |log2FC|≥1）
Significant differential expression of ferroptosis-related lncRNAs (N=299)
Entire set (N=1027)
BRCA clinical information in TCGA
Training set (N=515)
Testing set (N=512)
Univariate Cox regression analysis to select 19 ferroptosis-related lncRNAs significantly linked to OS
LASSO-penalized Cox analysis to select 13 ferroptosis-related lncRNAs significantly linked to OS
Multivariate Cox analysis to construct the 10 ferroptosis-related lncRNAs risk model
Kaplan-Meier curve analysis
Principal component analysis
Analysis of correlation with immunity
Independence of the ferroptosis-related lncRNA model
Building and validating nomogram prediction
Analysis of correlation with TMB
Drug response prediction