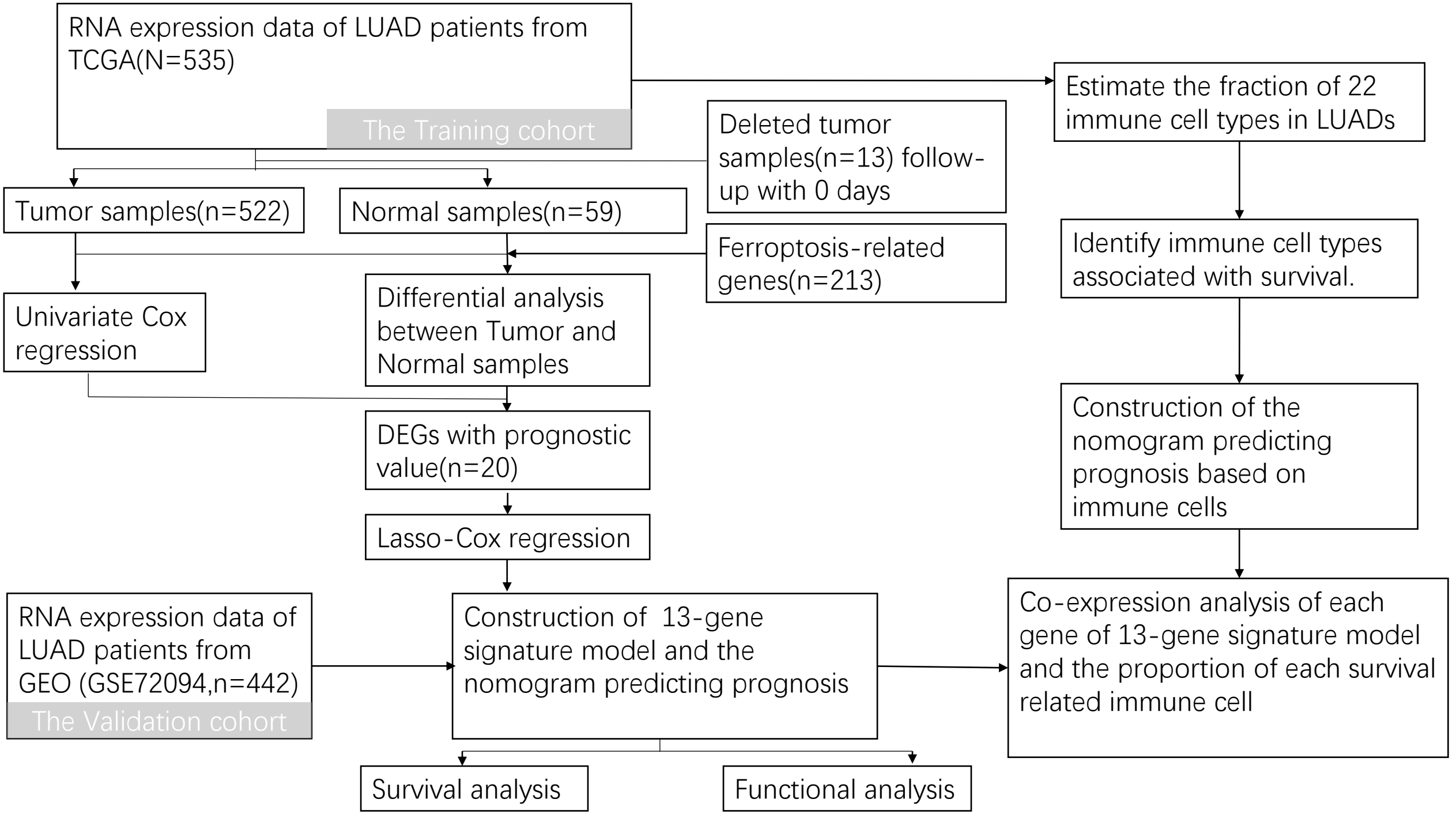
RNA expression data of LUAD patients from TCGA(N=535)
The Training cohort
Deleted tumor samples(n=13) follow-up with 0 days
Estimate the fraction of 22 immune cell types in LUADs
Tumor samples(n=522)
Normal samples(n=59)
Ferroptosis-related genes(n=213)
Identify immune cell types associated with survival.
Univariate Cox regression
Differential analysis between Tumor and Normal samples
Construction of the nomogram predicting prognosis based on immune cells
DEGs with prognostic value(n=20)
Lasso-Cox regression
RNA expression data of LUAD patients from GEO (GSE72094,n=442)
The Validation cohort
Construction of 13-gene signature model and the nomogram predicting prognosis
Co-expression analysis of each gene of 13-gene signature model and the proportion of each survival related immune cell
Survival analysis
Functional analysis