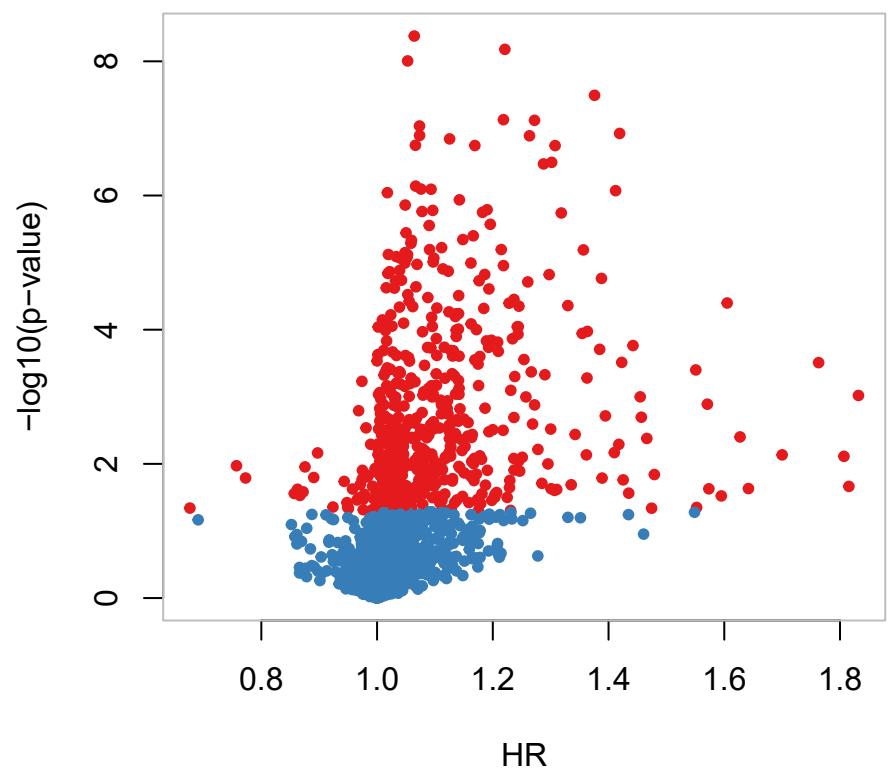
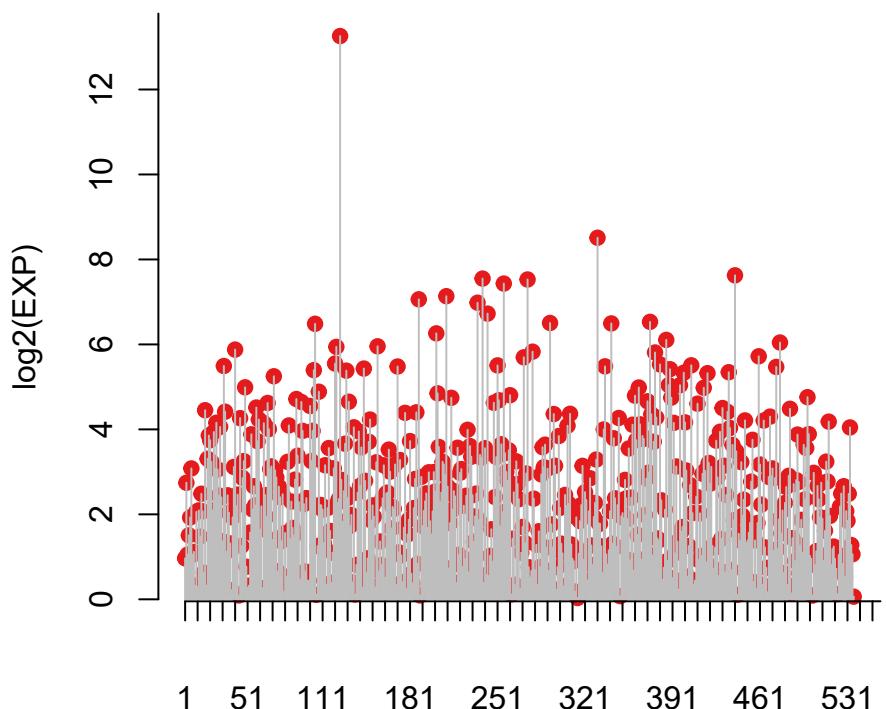
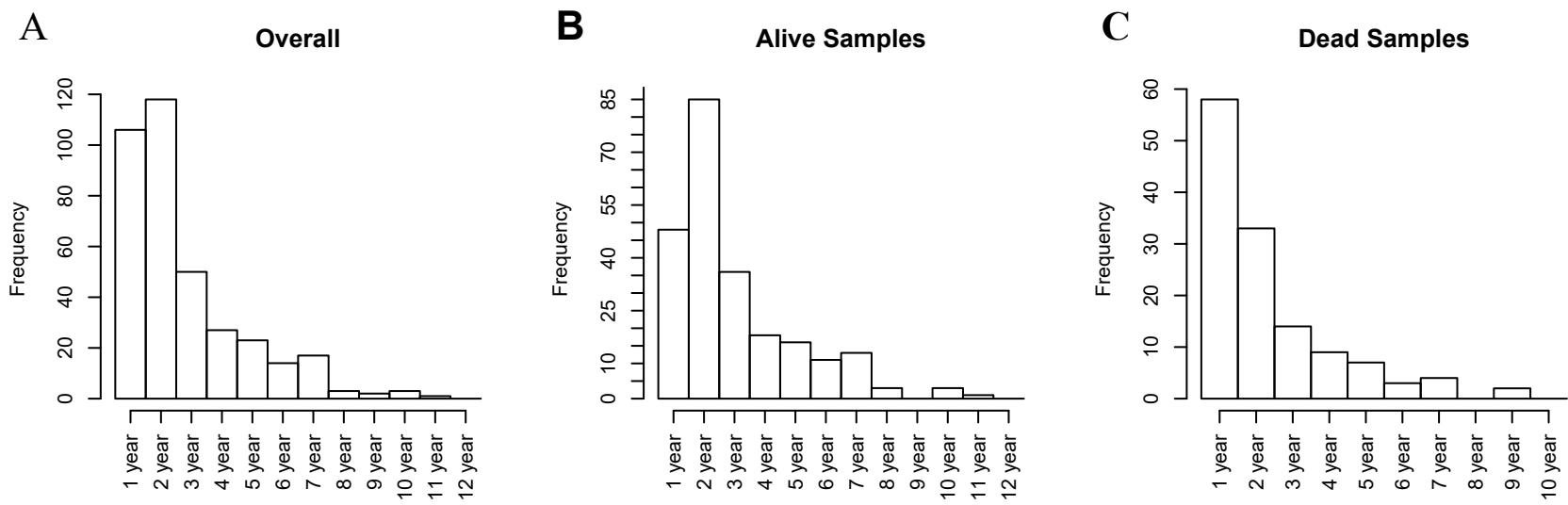


**A****B**

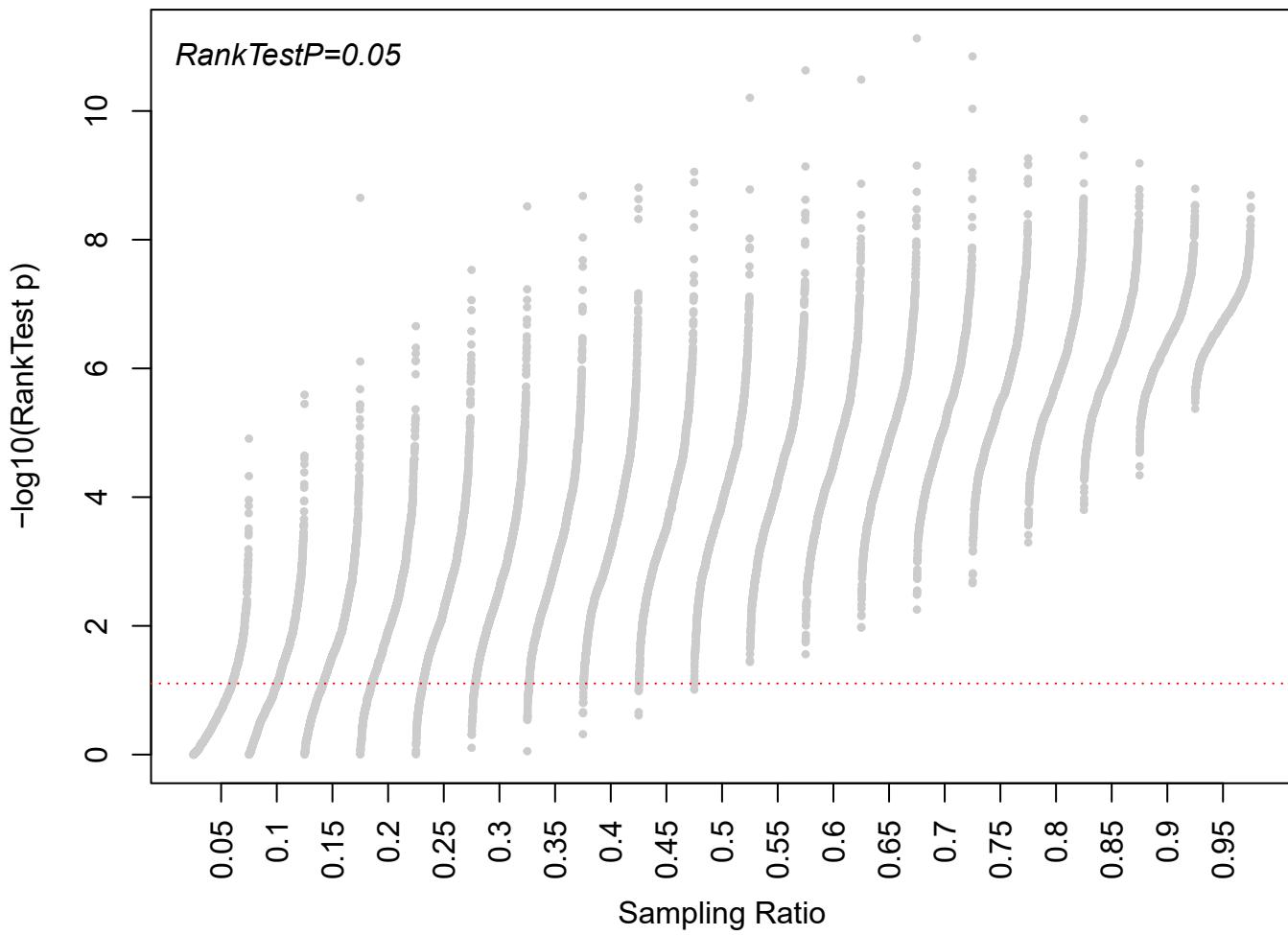
### Supplementary Figure 1

Identification of differentially expressed genes. A: Differential expression using univariate regression cox analysis. The horizontal axis is the gene risk ratio HR, the vertical axis is the  $-\log_{10}(P)$  of this gene. B: Differential expression analysis of genes. The horizontal axis represents the gene, and the vertical axis represents gene expression.



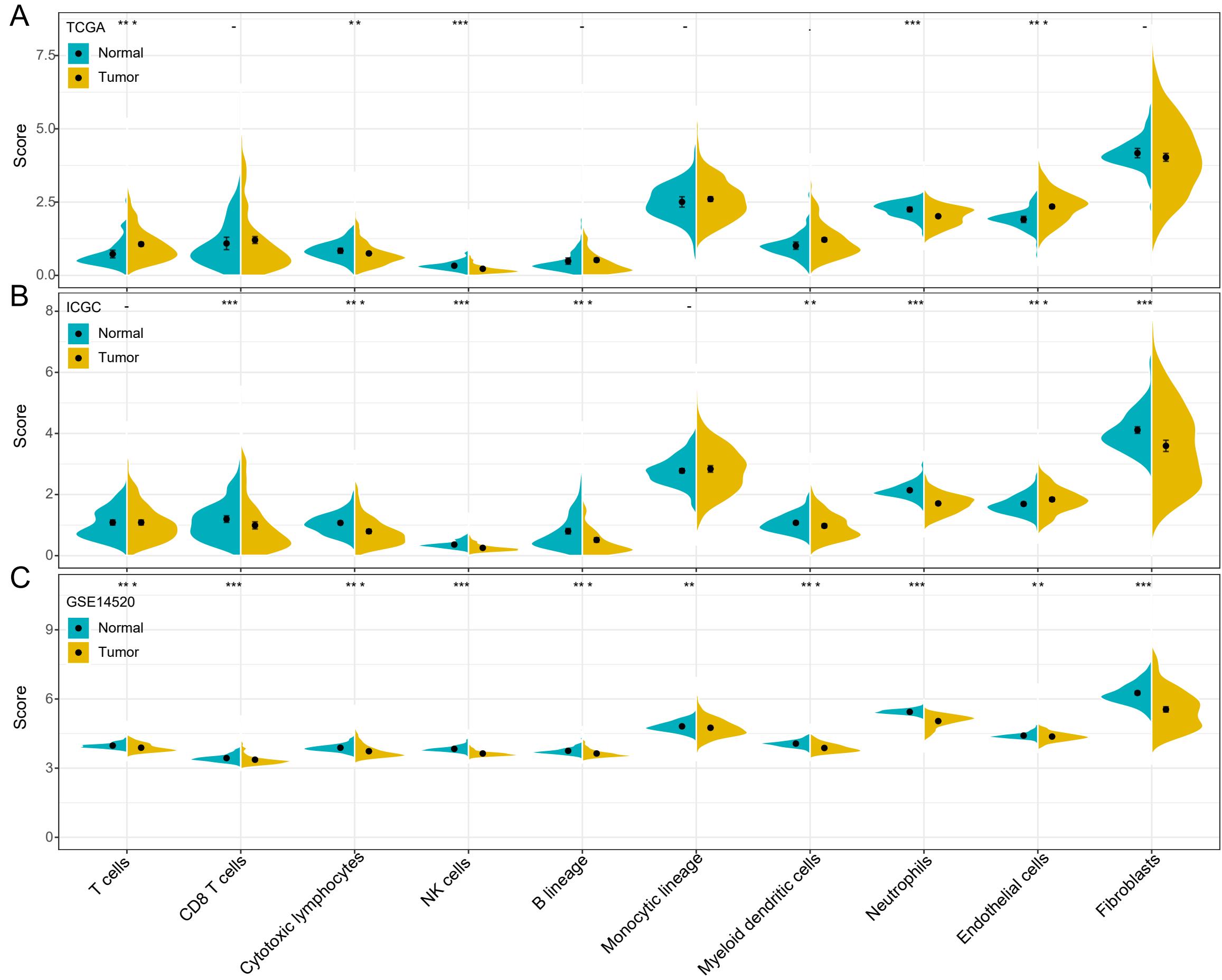
**Supplementary Figure 2**

Patient survival rate. A: Overall survival of all patients. B: Overall survival of alive patients. C: Overall survival of dead patients.



**Supplementary Figure 3**

Sampling ratio of 995 out of 1000 random samples.



Supplementary Figure 4

The scores of 10 immune cells from the data sets TCGA, GSE14520 and ICGC-LIRI-LP.

A: Scores of 10 immune cells in TCGA data set. B: Scores of 10 immune cells in ICGC data set. C: Scores of 10 immune cells in GSE14520 data set.