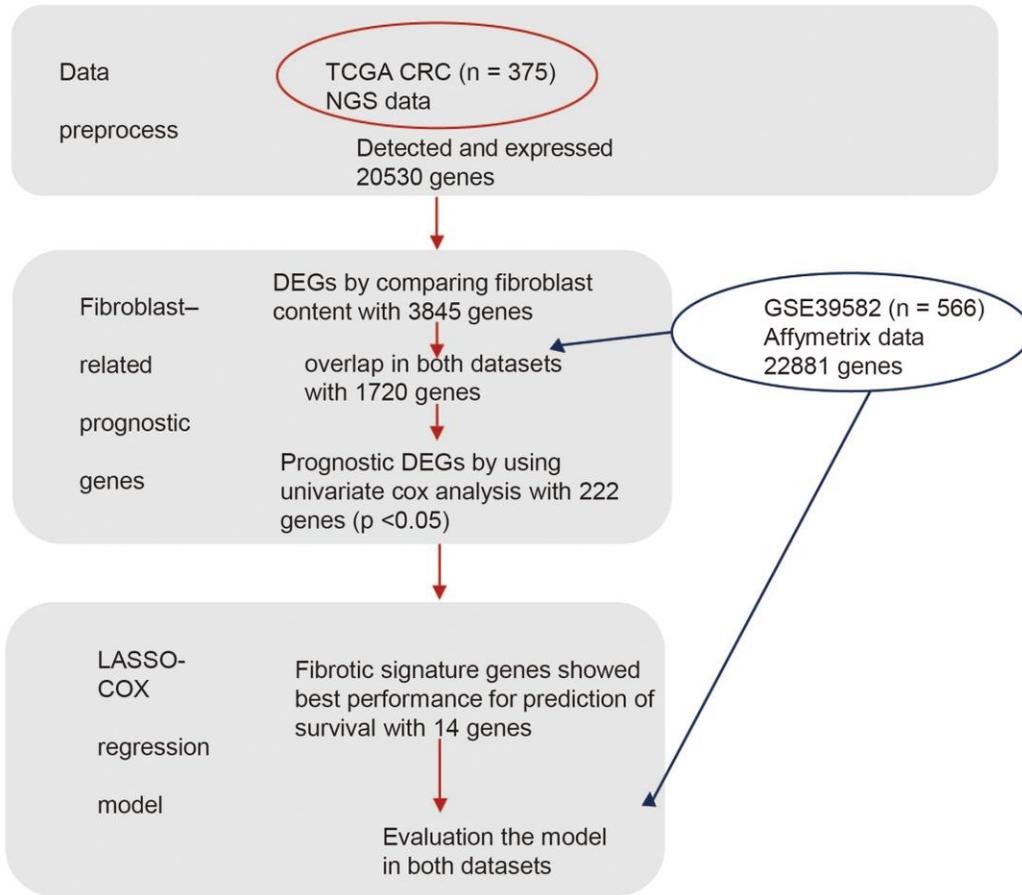
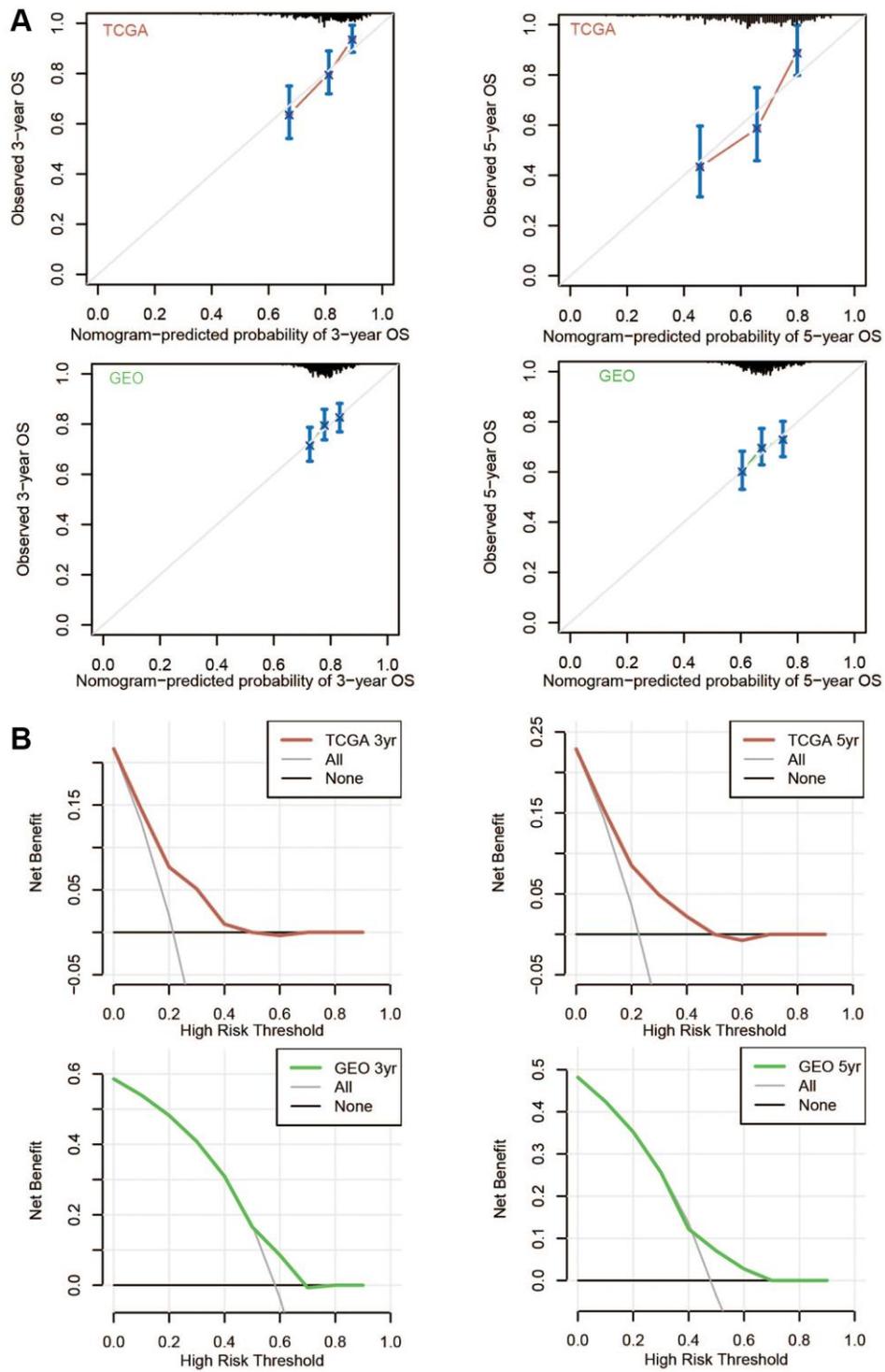


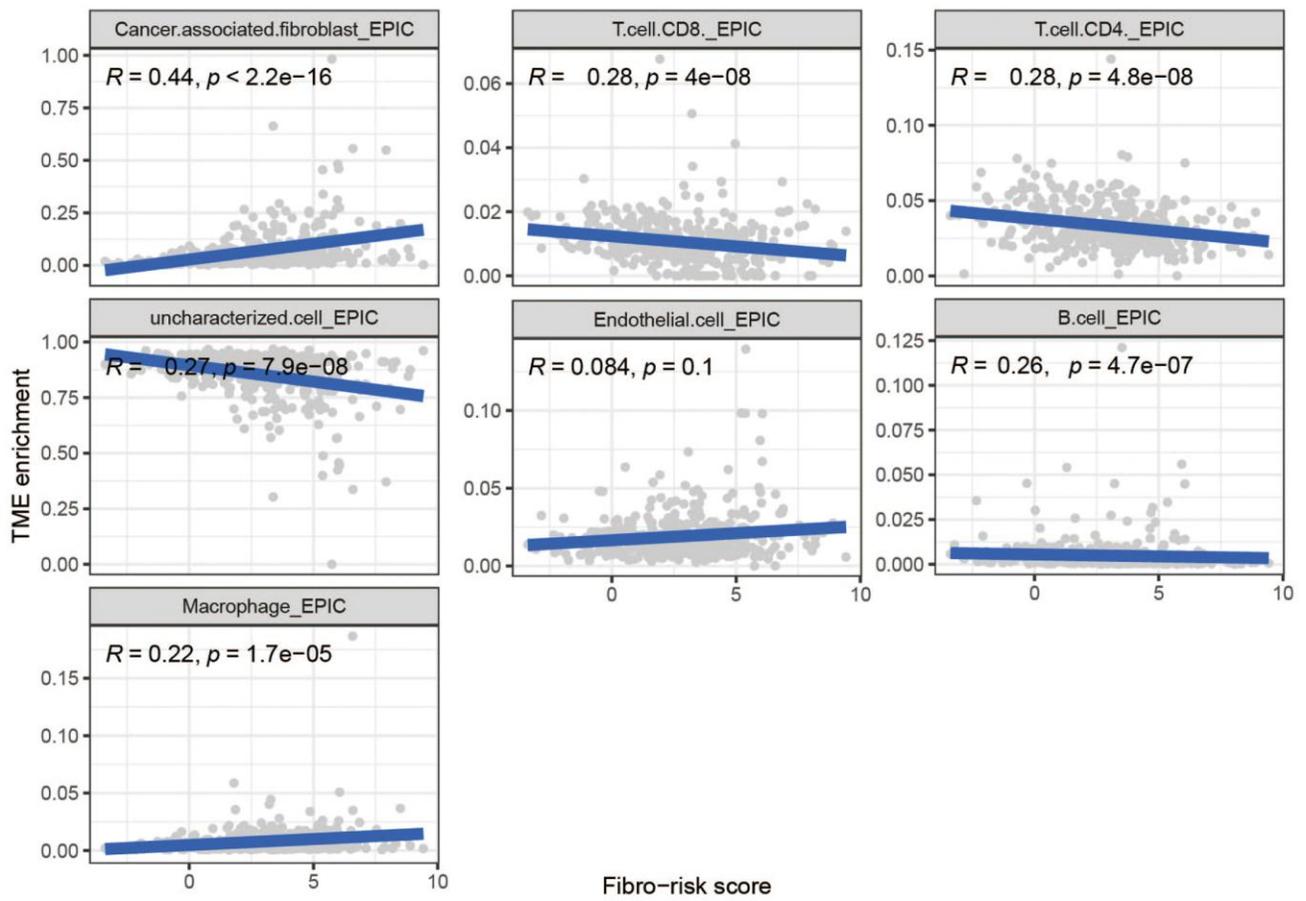
**SUPPLEMENTARY FIGURES**



**Supplementary Figure 1. The flow chart of the signature building process.**



**Supplementary Figure 2. The predictive performance of the prediction models. (A)** Calibration curve for the prediction of 3-and 5-year overall survival. **(B)** DCA curve for the prediction of 3-and 5-year overall survival.



**Supplementary Figure 3. Correlation between TME and risk score.** The cells in TME have a higher correlation with the risk score.