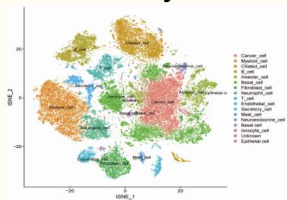


Identification of T-cell marker genes

Single-Cell RNA-seq

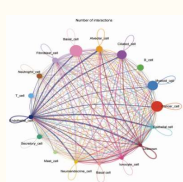
t-SNE

dimensionality reduction



CellChat

cellular crosstalk

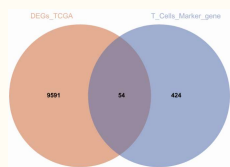


RNA seq

DESeq2

DEGs

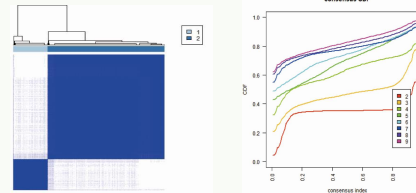
578 T cell marker genes



differential T cell marker genes

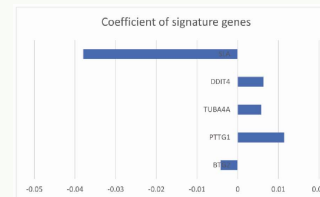
Construction and validation of an T cell markers signature

seven prognosis-associated genes

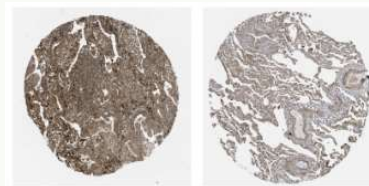


univariate
Cox analysis

T cell markers signature



Verification of the mRNA and protein expression



The prognostic value and landscape of T cell markers signature

Immune signature $\Rightarrow$ tumor immunocellular infiltration
immunological checkpoint inhibitors

Biological features $\Rightarrow$ Angiogenic Activity
EMT
Tumorigenic Cytokines
Stemness Scores
TSIs

Genetic landscape $\Rightarrow$ Differential mutated genes
mutual exclusivity and co-occurrence of gene mutations
TMB

Chemotherapy sensitivity analysis