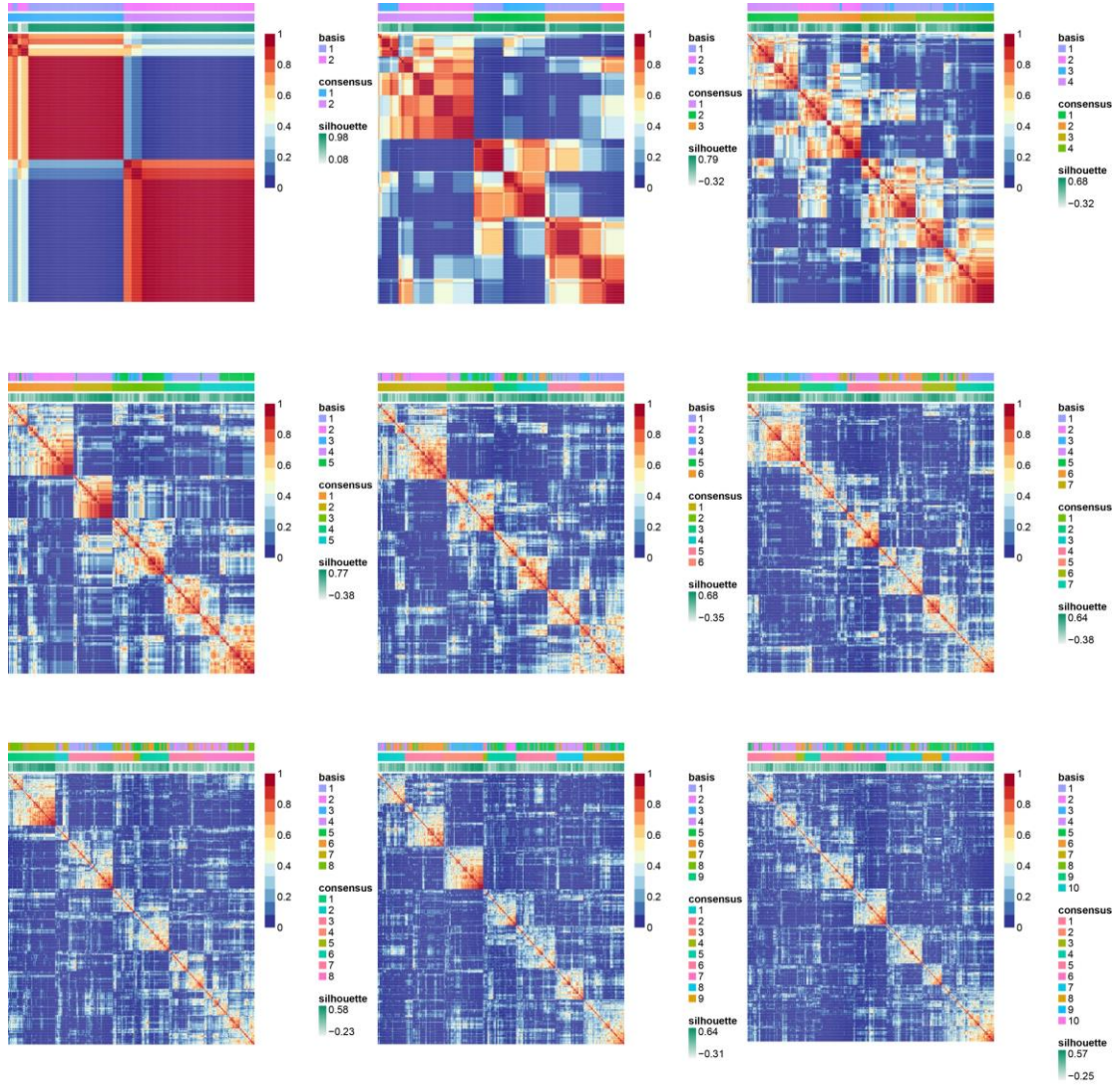
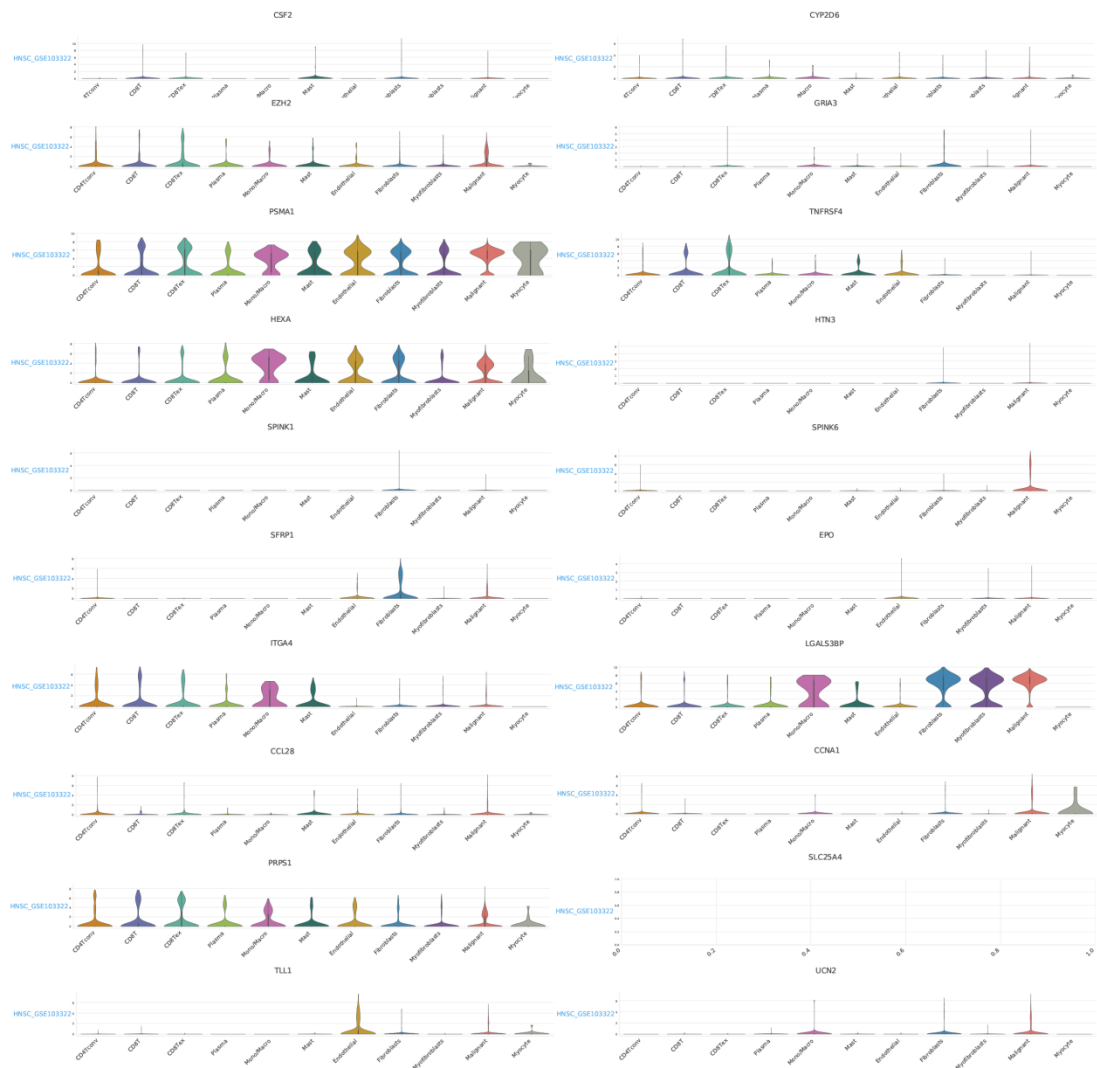


Supplementary Figure 1: NMF rank survey analysis results.



Supplementary Figure 2: NMF clustering analysis results.



Supplementary Figure 3 : Expression levels of SMRGs in the tumor microenvironment of HNSCC patients.

Supplementary Table 1: SMRGs univariate cox analysis results