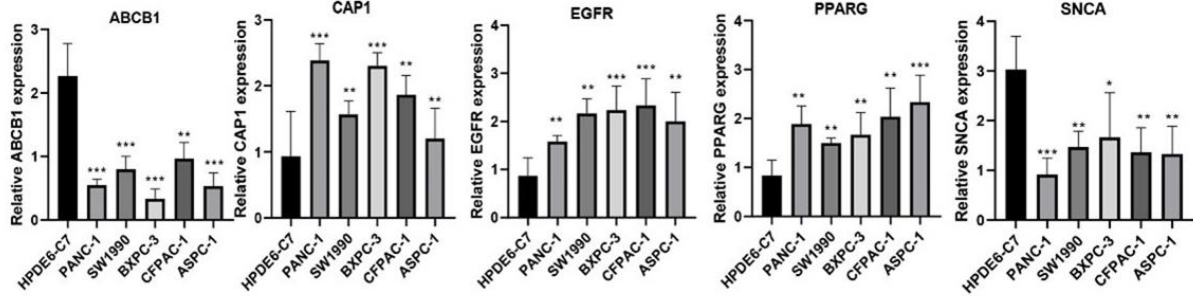
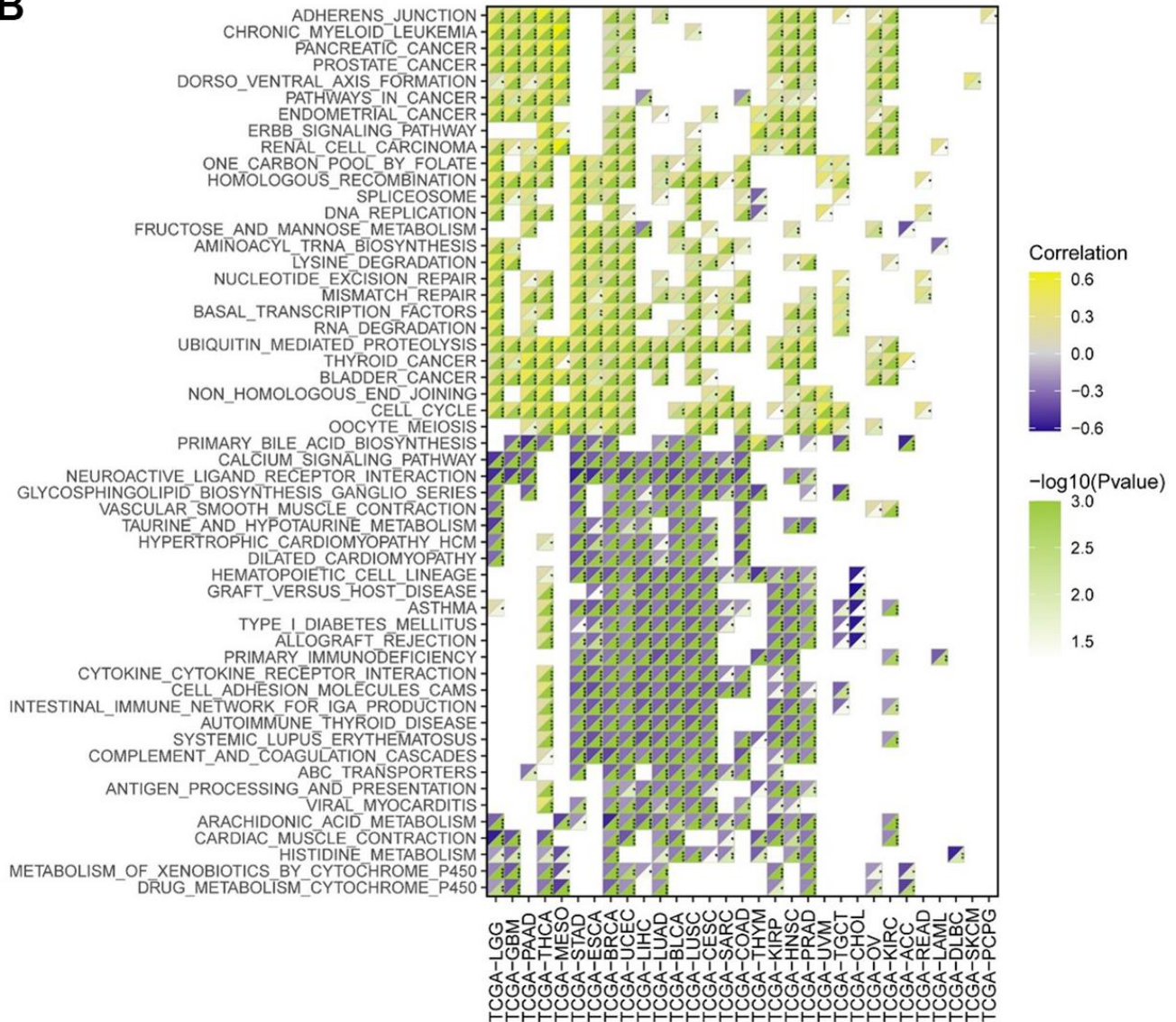


SUPPLEMENTARY FIGURES

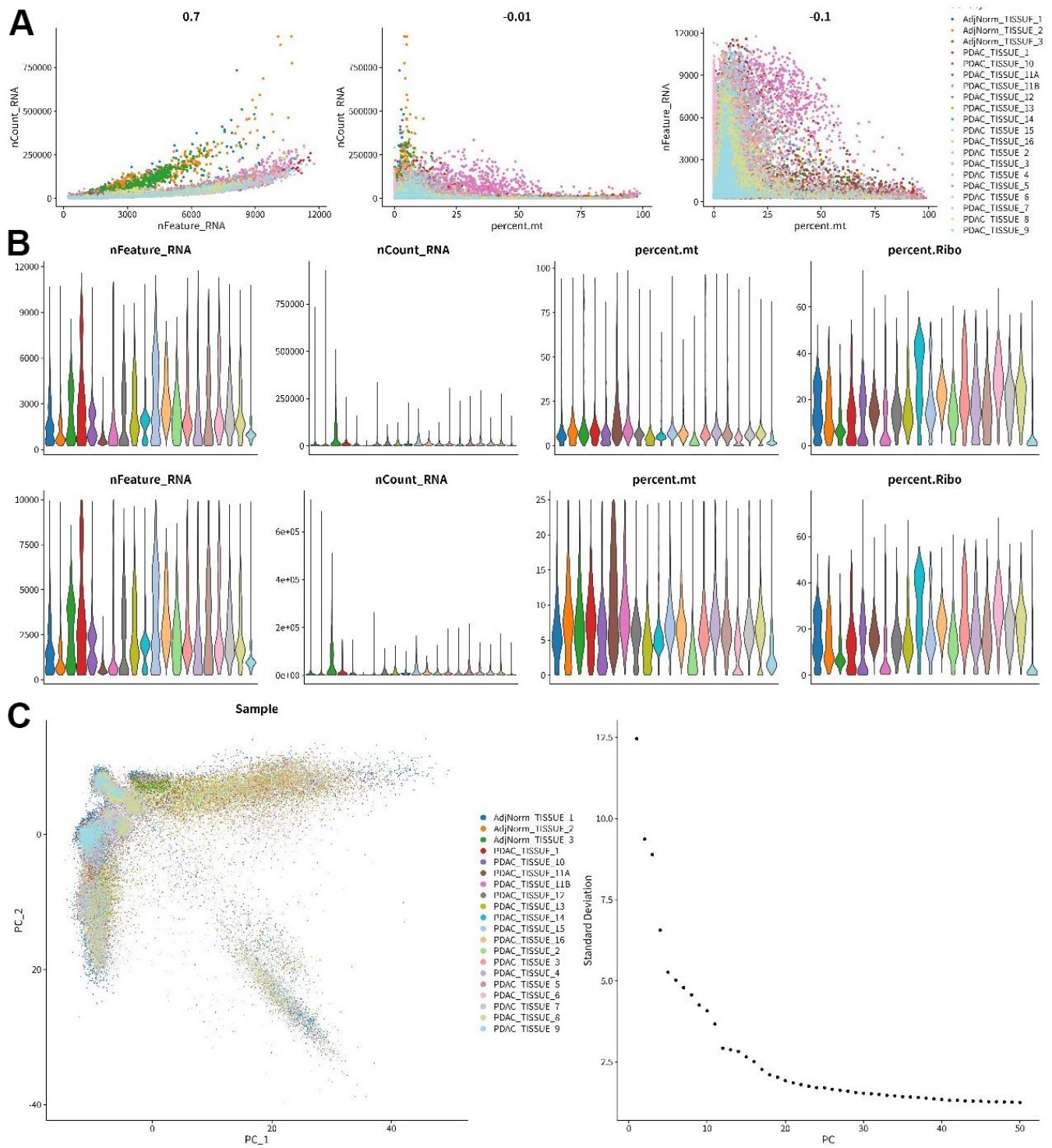
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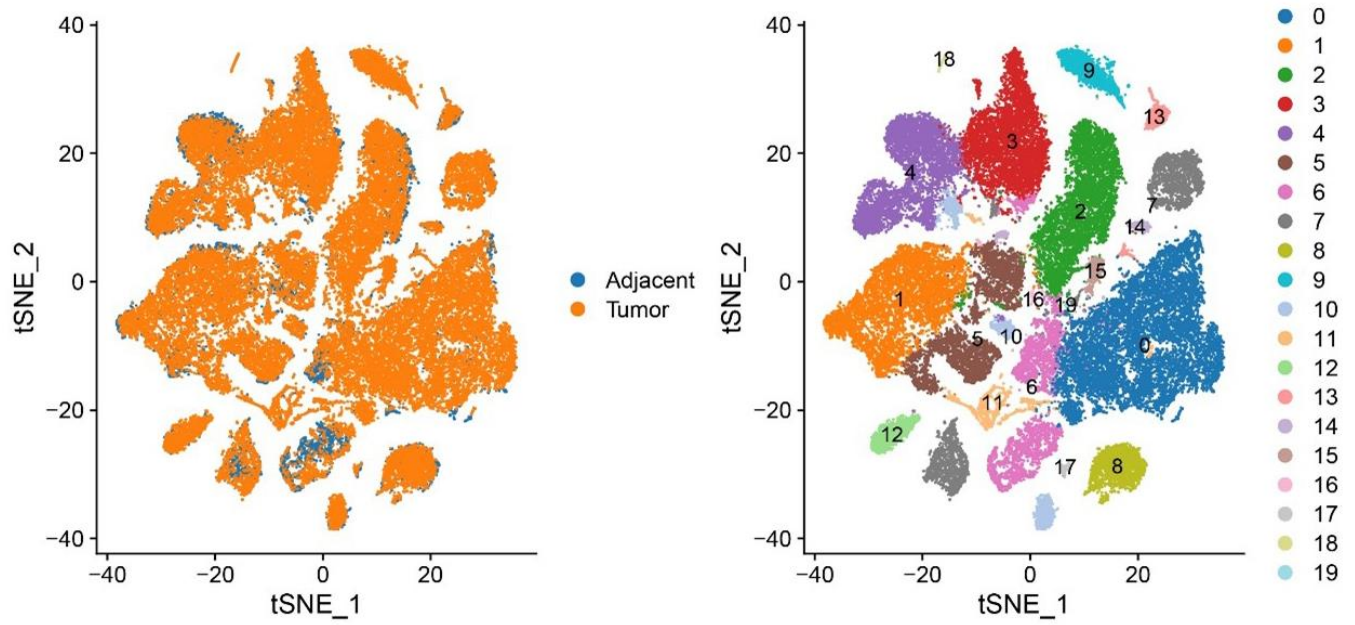
B



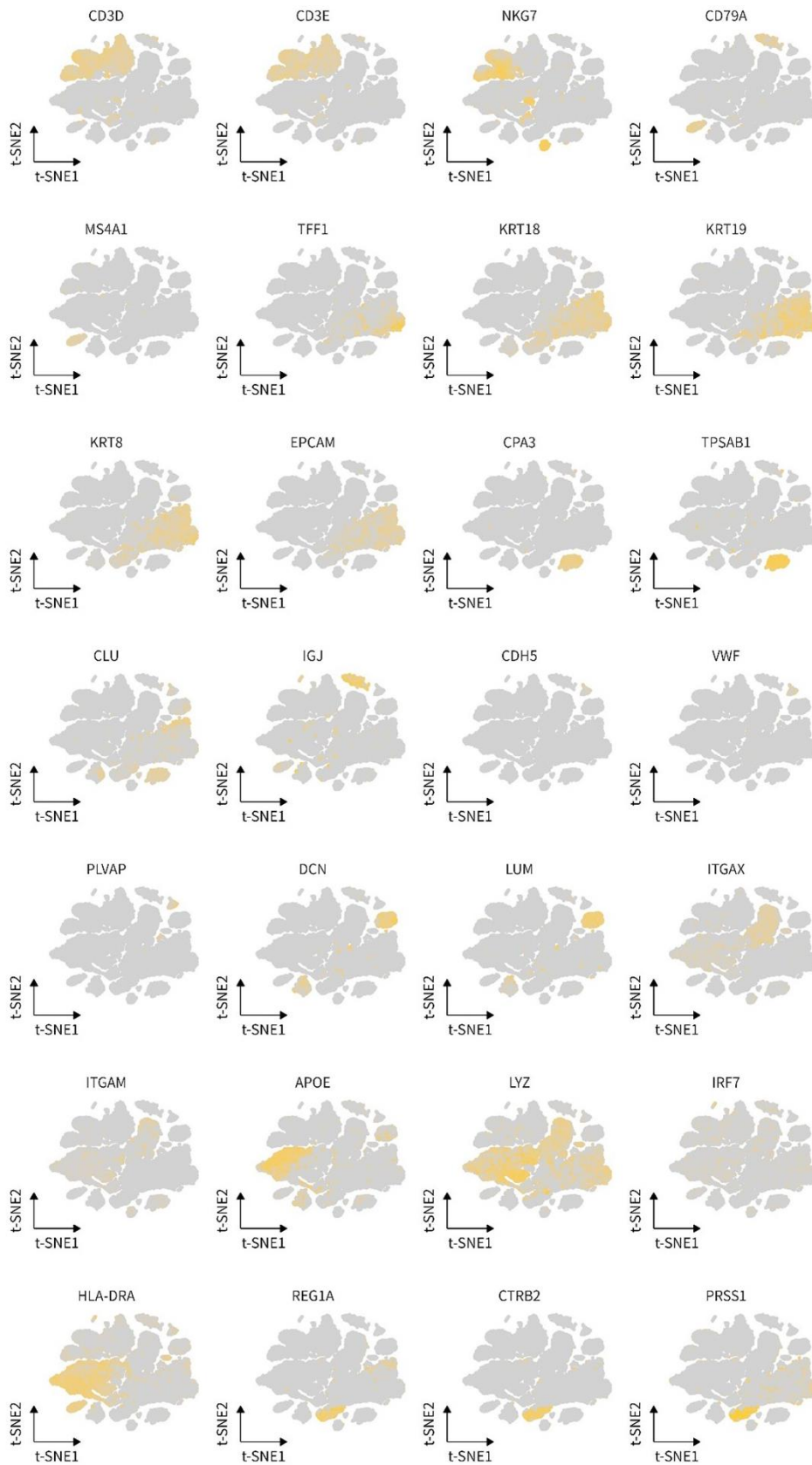
Supplementary Figure 1. (A) The expression of the 5 hub genes in pancreatic cancer cell lines comparing to pancreatic normal cell lines. ** means P-value <0.01, *** means P-value <0.001. (B) Correlation analysis of GSVA enrichment score and identified risk score in pan-cancer.



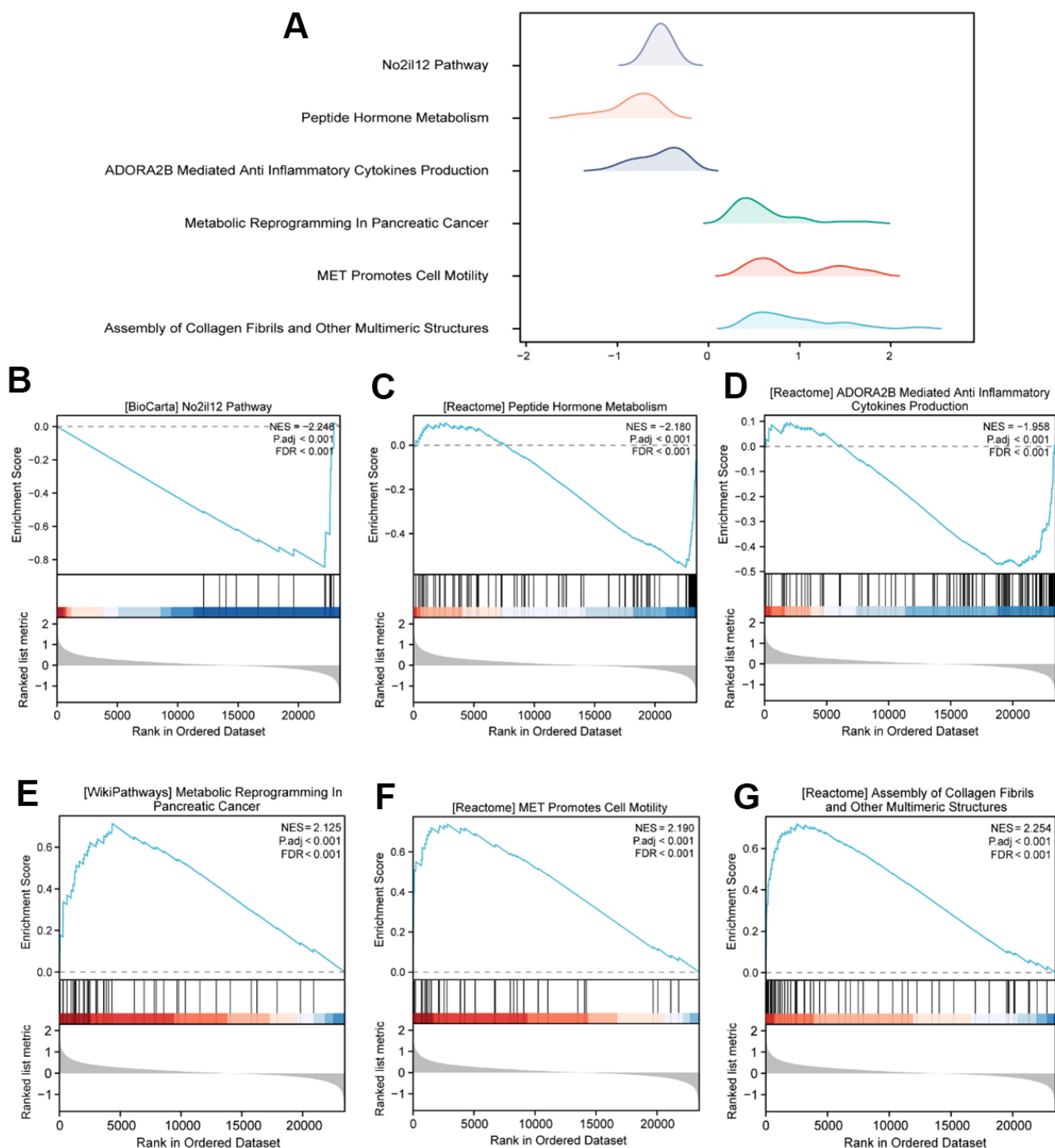
Supplementary Figure 2. (A–C) The quality of the enrolled single-cell sequencing data.



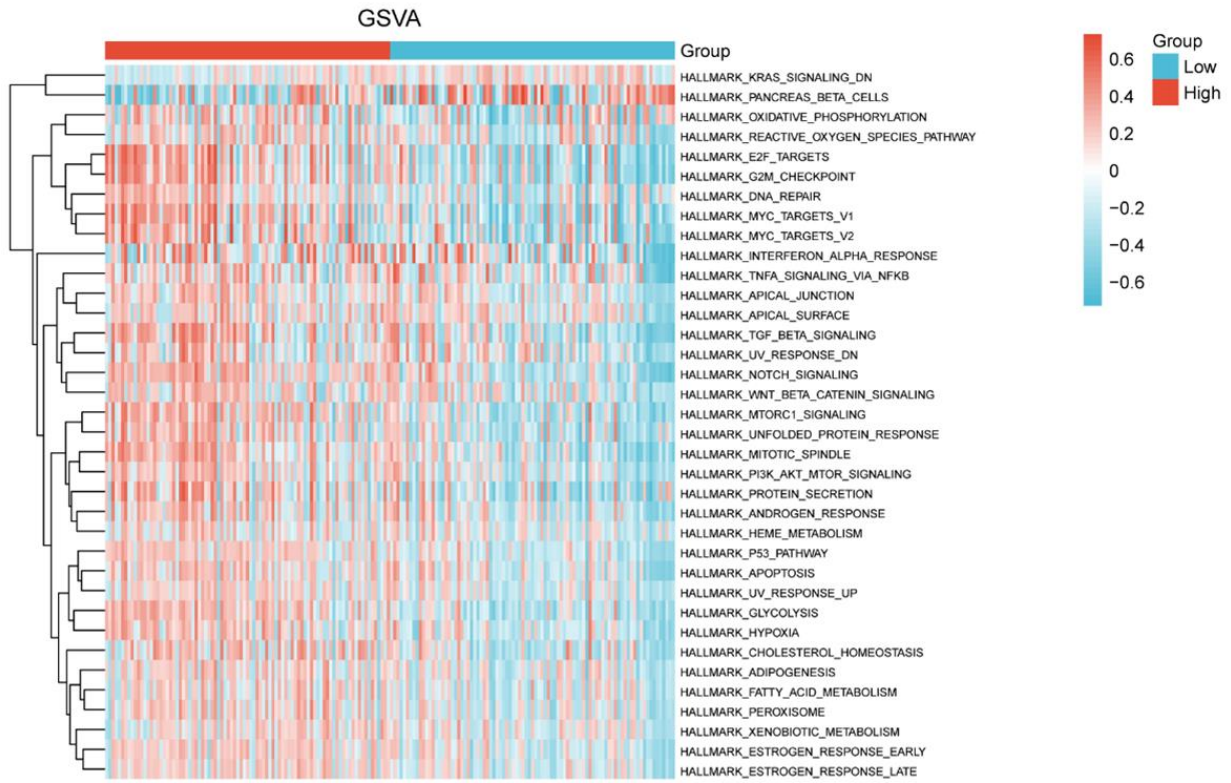
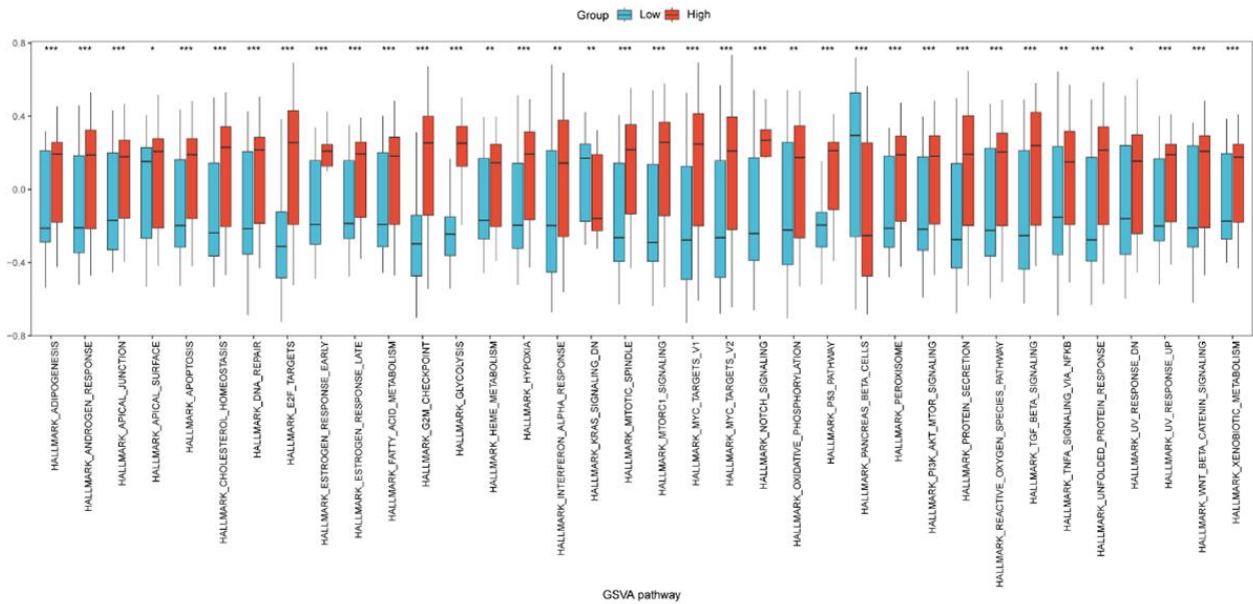
Supplementary Figure 3. Left: The tSNE plot between tumor and adjacent tumor. Right: The tSNE plot of 19 group after clustered.



Supplementary Figure 4. The t-SNE plot of multiple markers in single-cell sequencing data.



Supplementary Figure 5. (A) The identified GSEA pathways between the high and low-risk group. (B–G) The enrichment score of identified GSEA pathway.

A**B**

Supplementary Figure 6. (A) The identified GSEA pathways in the high and low-risk groups. **(B)** The identified GSEA pathways in the high and low-risk groups.