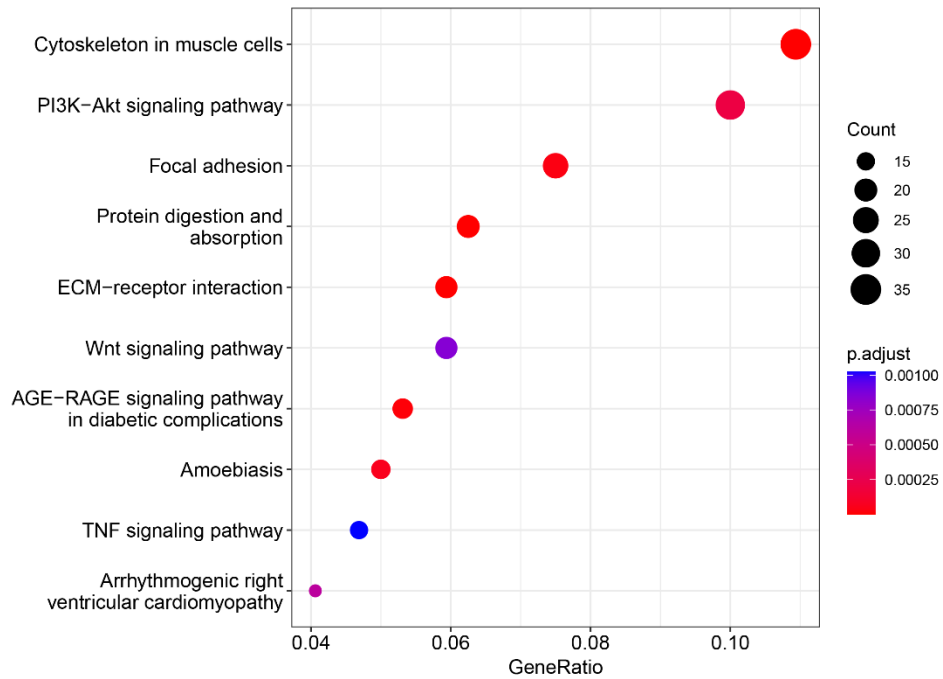
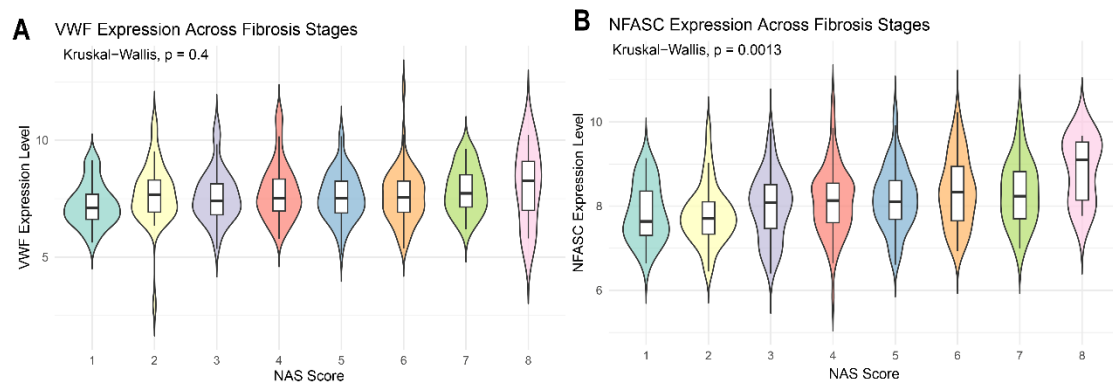


Supplementary Figure

Supplementary Figure 1. Bubble plot of KEGG enrichment analysis for differentially expressed genes between advanced and mild fibrosis groups.

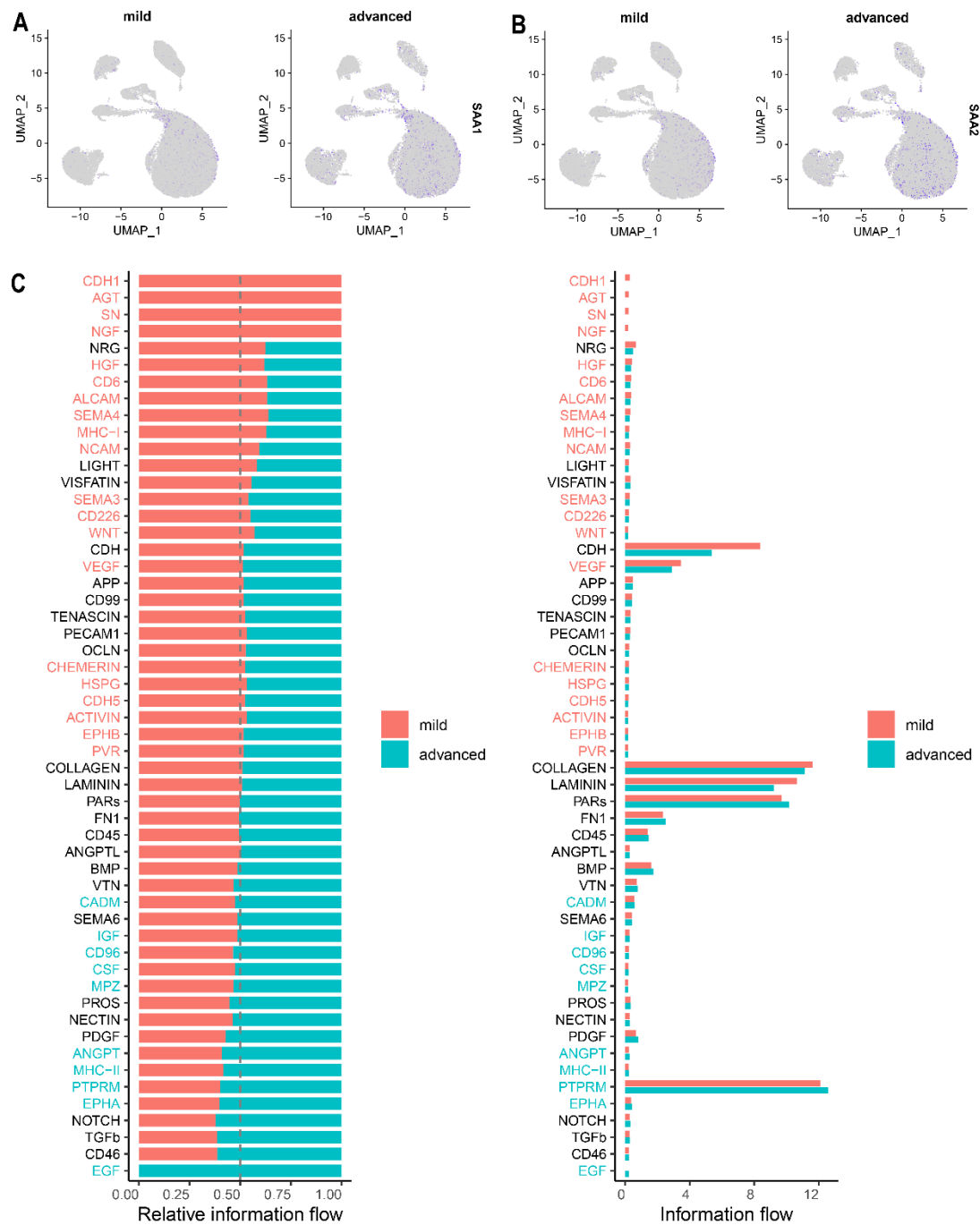


Supplementary Figure 2. Validation of the expression and diagnostic performance of VWF, NFASC in training and validation datasets



(A-B) Expression differences of VWF and NFASC across NAFLD Activity Score (NAS) grades in the training cohort.

Supplementary Figure 3. Single-Cell Sequencing Analysis of NAFLD Patients with advanced fibrosis.



(A-B) The SAA1 and SAA2 expressions in advanced fibrosis group and mild fibrosis group. (C) The differentiated pathways between advanced fibrosis and mild fibrosis in intercellular communication analysis.

Supplementary Table 1: The detailed information of datasets in our study.

Dataset	Species	Tissue Source	mild fibrosis	advanced fibrosis
Single-cell sequencing data				
GSE202379	Homo sapiens	Liver	24	16
Transcriptome sequencing data in test group				
GSE130970	Homo sapiens	Liver	62	16
GSE135251	Homo sapiens	Liver	138	68
GSE162694	Homo sapiens	Liver	92	20
Transcriptome sequencing data in validation group				
GSE193066	Homo sapiens	Liver	80	26
Proteomics data				
PMID: 37037945	Homo sapiens	Blood	112	79