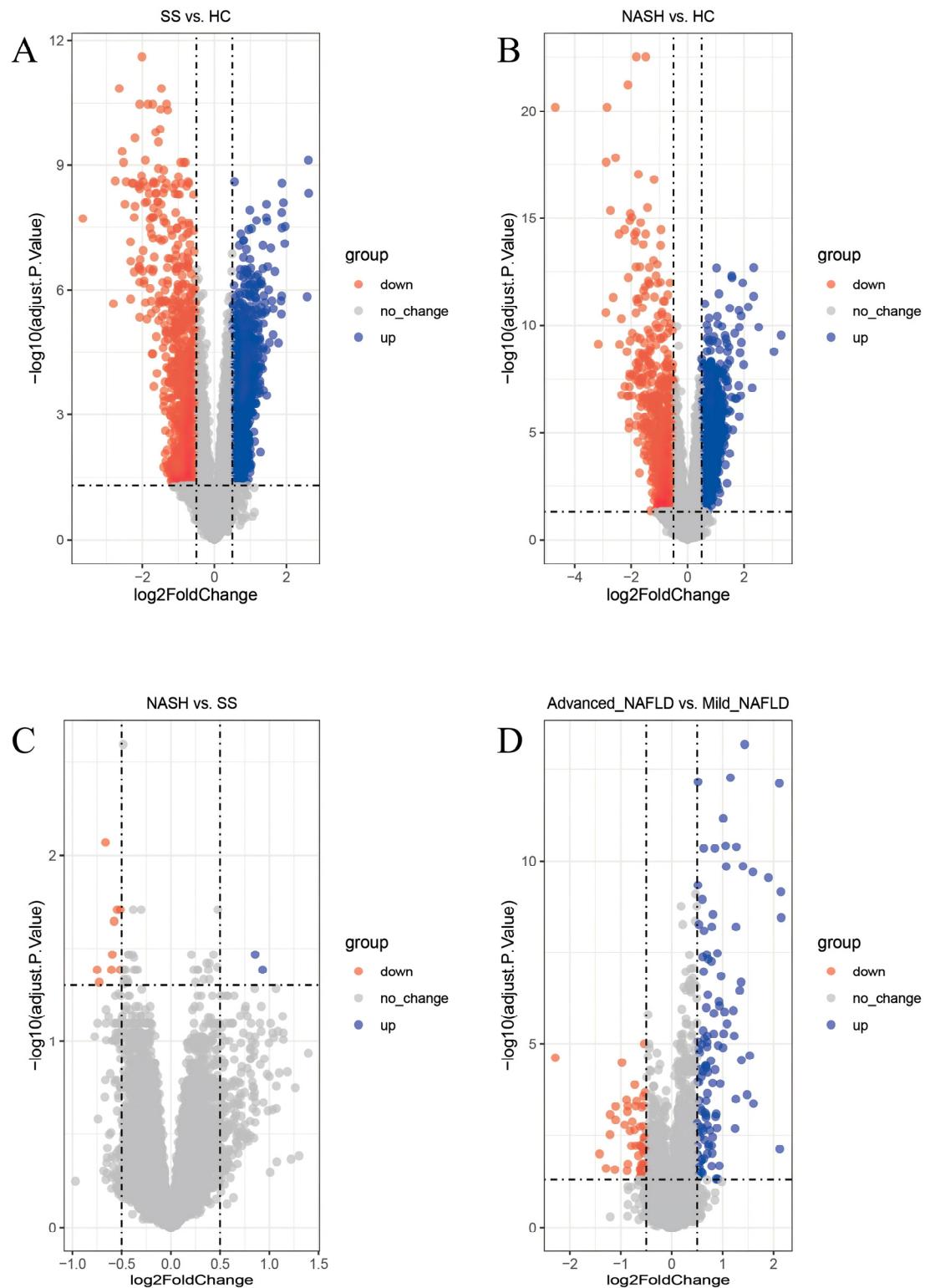
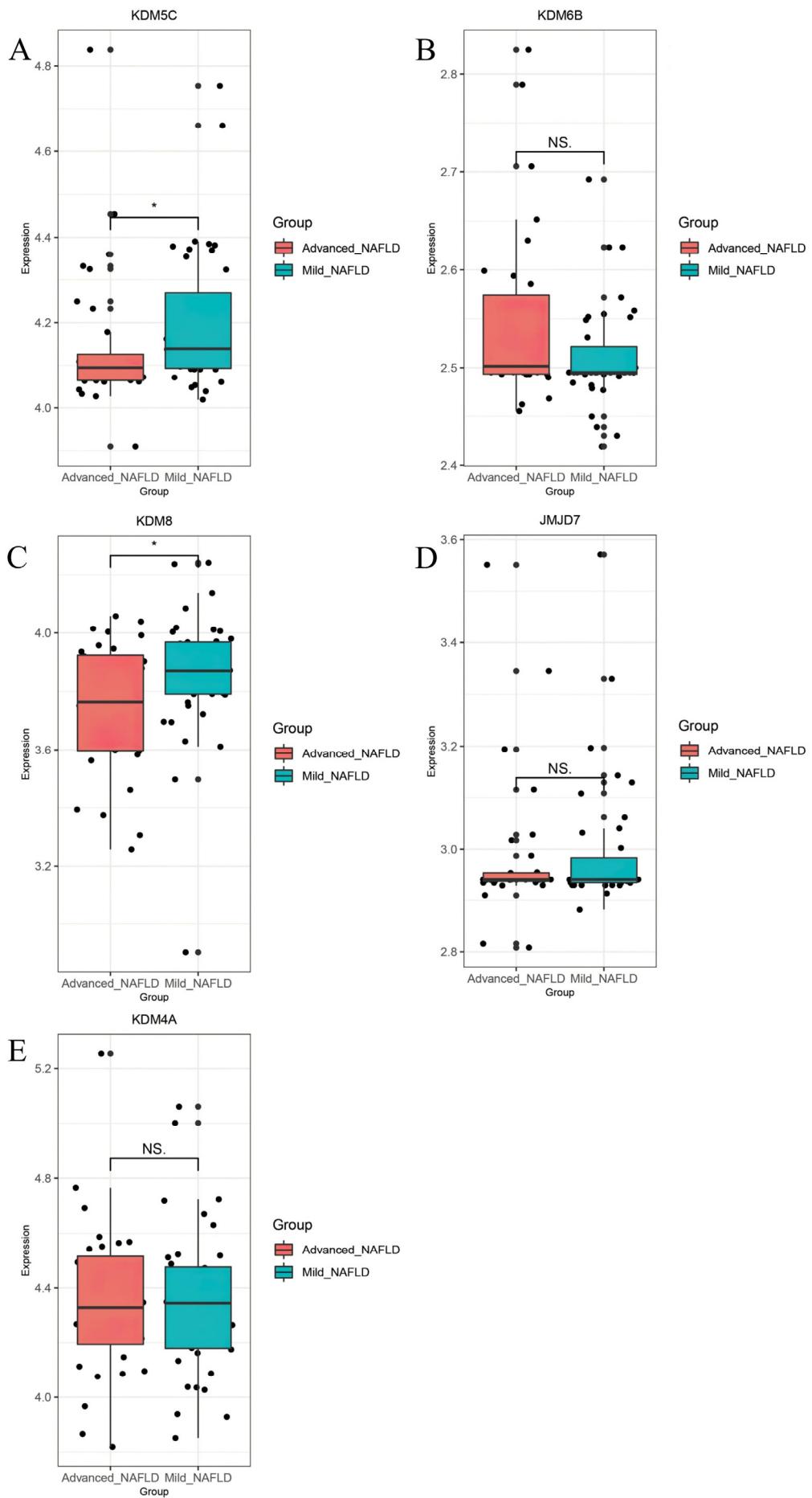


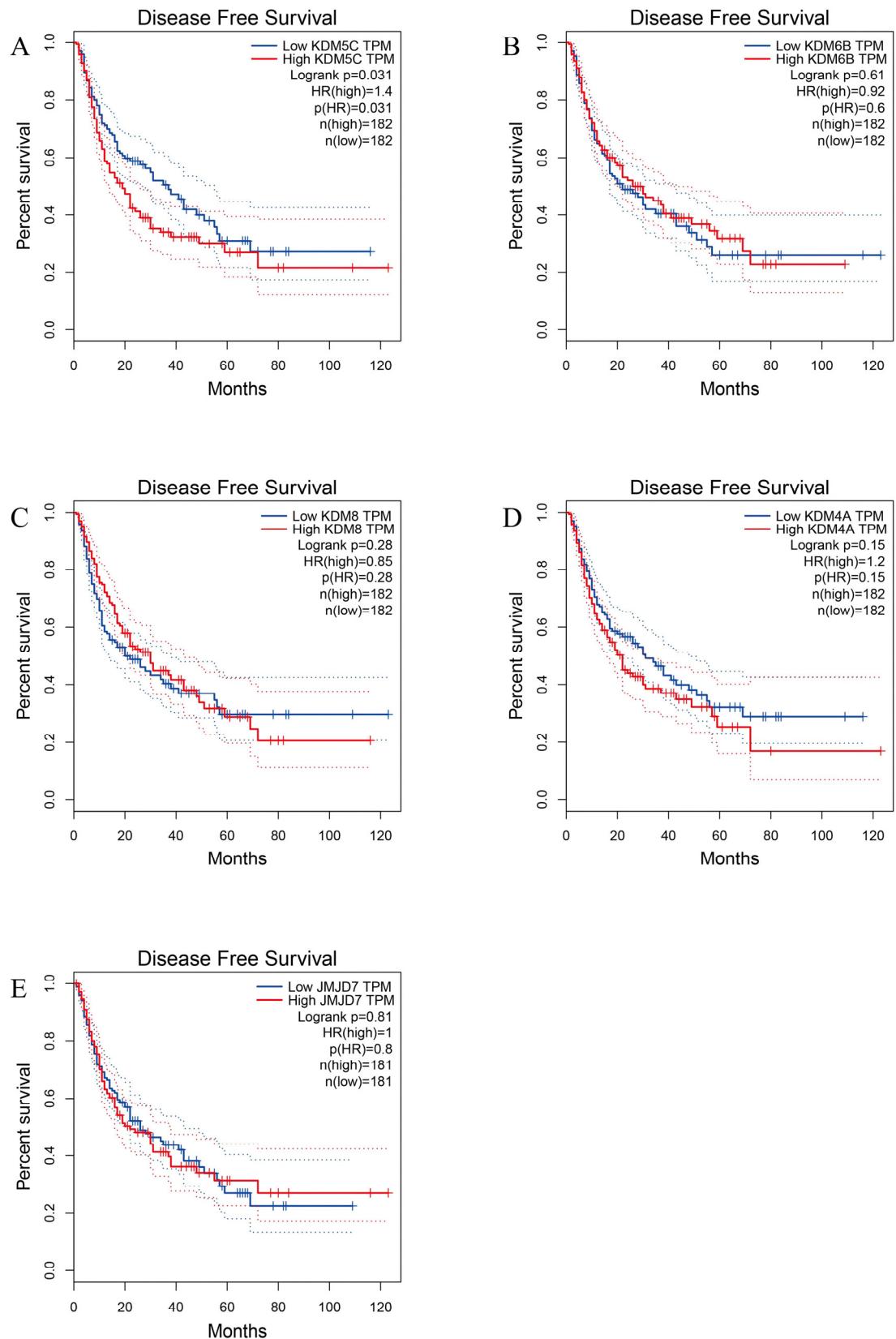
## Supplementary figures



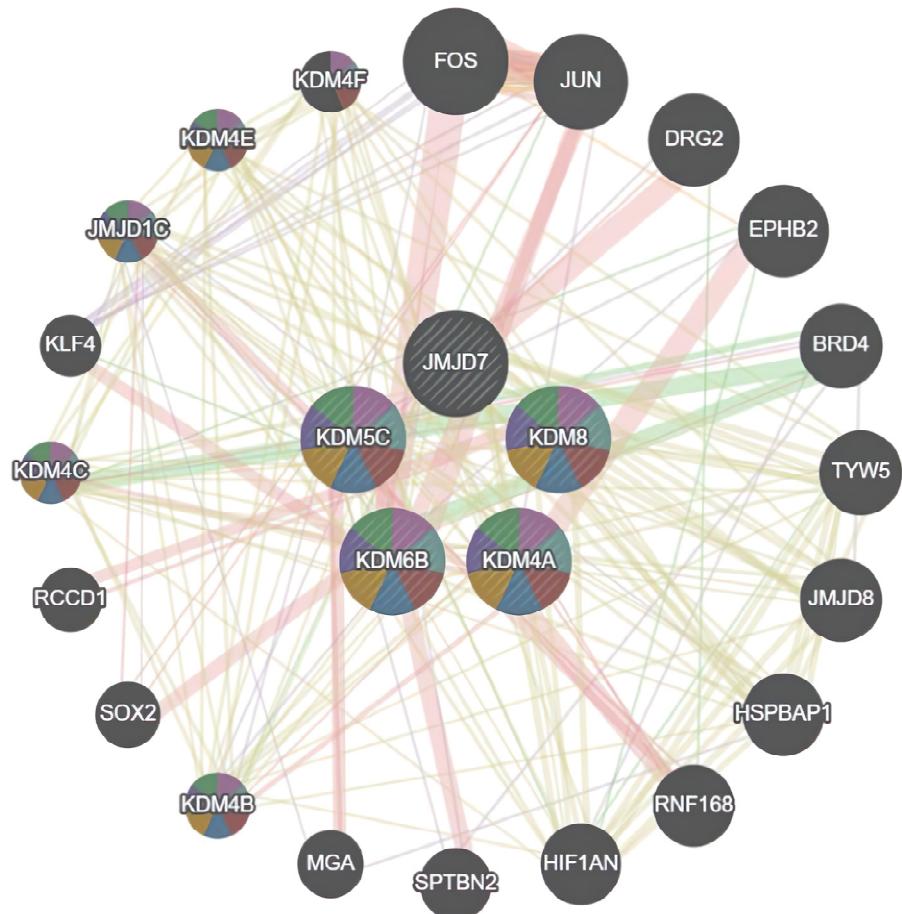
**Figure S1.** Volcano plots of DEGs from both databases. (A) SS vs. HC. (B) NASH vs. HC. (C) NASH vs. SS. (D) Advanced NAFLD vs. mild NAFLD. Abbreviations: DEGs, differentially expressed genes; SS, simple steatosis; HC, healthy control; NASH, non-alcoholic steatohepatitis; NAFLD, non-alcoholic fatty liver disease.



**Figure S2.** Selected HDM gene expression in the GSE49541 database. Abbreviations: HDM, histone demethylase; NAFLD, non-alcoholic fatty liver disease; NS, not significant. An asterisk indicates that the p-value of < 0.05.



**Figure S3.** Prognostic values of five HDM genes for disease-free survival in HCC.  
 (A) KDM5C. (B) KDM6B. (C) KDM8. (D) KDM4A. (E) JMJD7. Abbreviations:  
 HDM, histone demethylase; HCC, hepatocellular carcinoma; TPM, Transcripts Per  
 Million; HR, hazard ratio.



#### Networks

- Physical Interactions
- Co-expression
- Predicted
- Co-localization
- Genetic Interactions
- Pathway
- Shared protein domains

#### Functions

- protein demethylase activity
- histone demethylase activity
- demethylase activity
- histone lysine demethylation
- protein demethylation
- histone demethylation
- protein dealkylation

**Figure S4.** Networks and functional associations of selected HDM genes with the 20 strongest genes identified in the genemania database. Abbreviations: HDM, histone demethylase.

