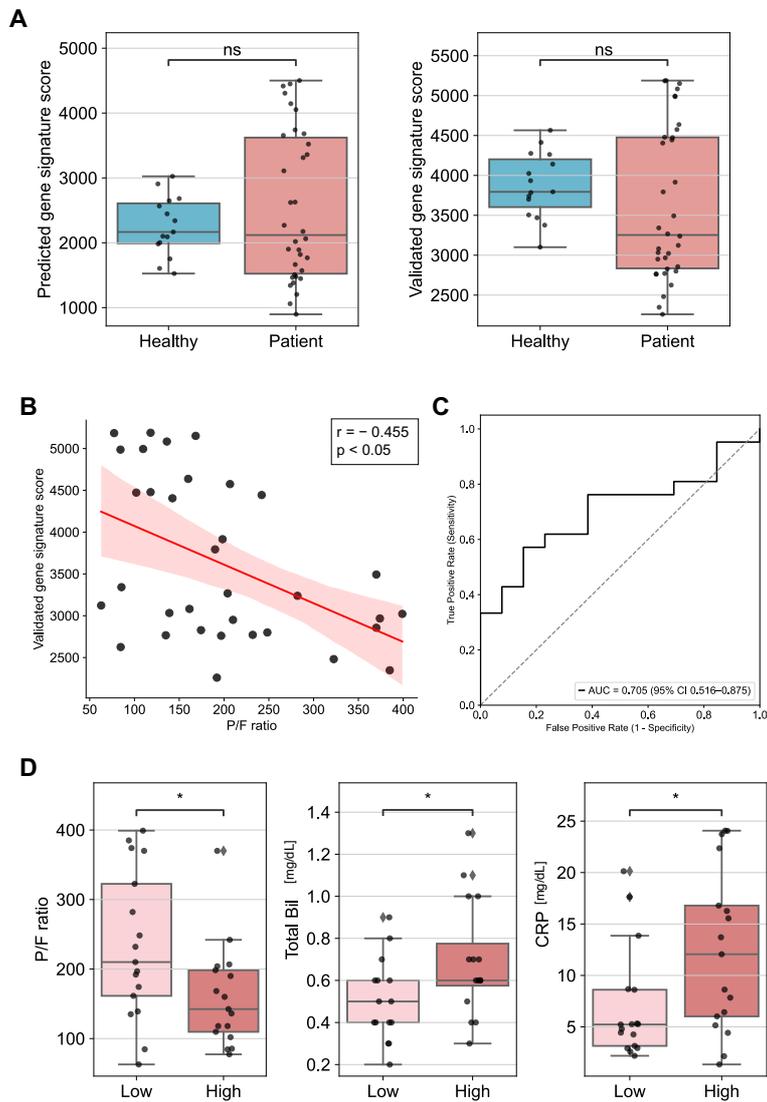


Supplementary Fig. 4



Reproducibility of the miRNA target gene signature in the pneumonia cohort

(A) Comparison of ssGSEA scores for the predicted and validated gene signatures between patients with ARDS and healthy controls in the ARDS cohort. Box plots indicate the median and interquartile range.

(B) Correlation analysis between the ssGSEA scores of the validated miRNA target gene signature and the P/F ratio. Spearman's correlation analysis revealed a significant negative association ($r =$

-0.455, $p < 0.05$). The red line represents the regression line, whereas the pink shaded area indicates the 95% confidence interval.

(C) ROC curve evaluating the predictive performance of the validated gene signature for identifying patients with a P/F ratio of < 200 . The AUC was 0.703.

(D) Comparison of the clinical parameters between the High and Low ssGSEA score groups for the validated gene signature.