

Integrative single-cell and bulk transcriptomic profiling identifies peripheral T-cell-associated candidate biomarkers in community-acquired pneumonia

Supplementary Materials

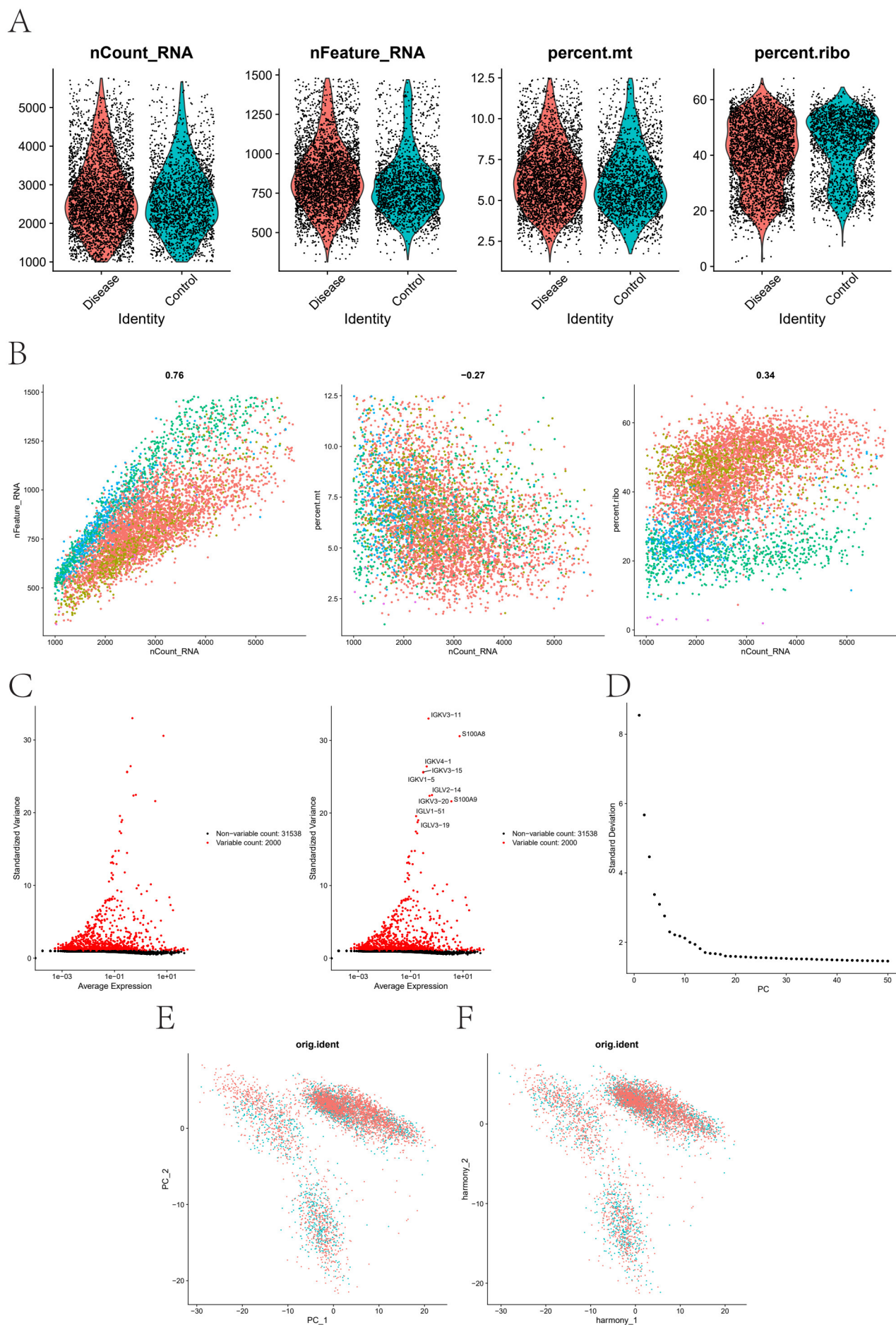
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Supplementary Table S1. Primer sequences used for qRT-PCR.

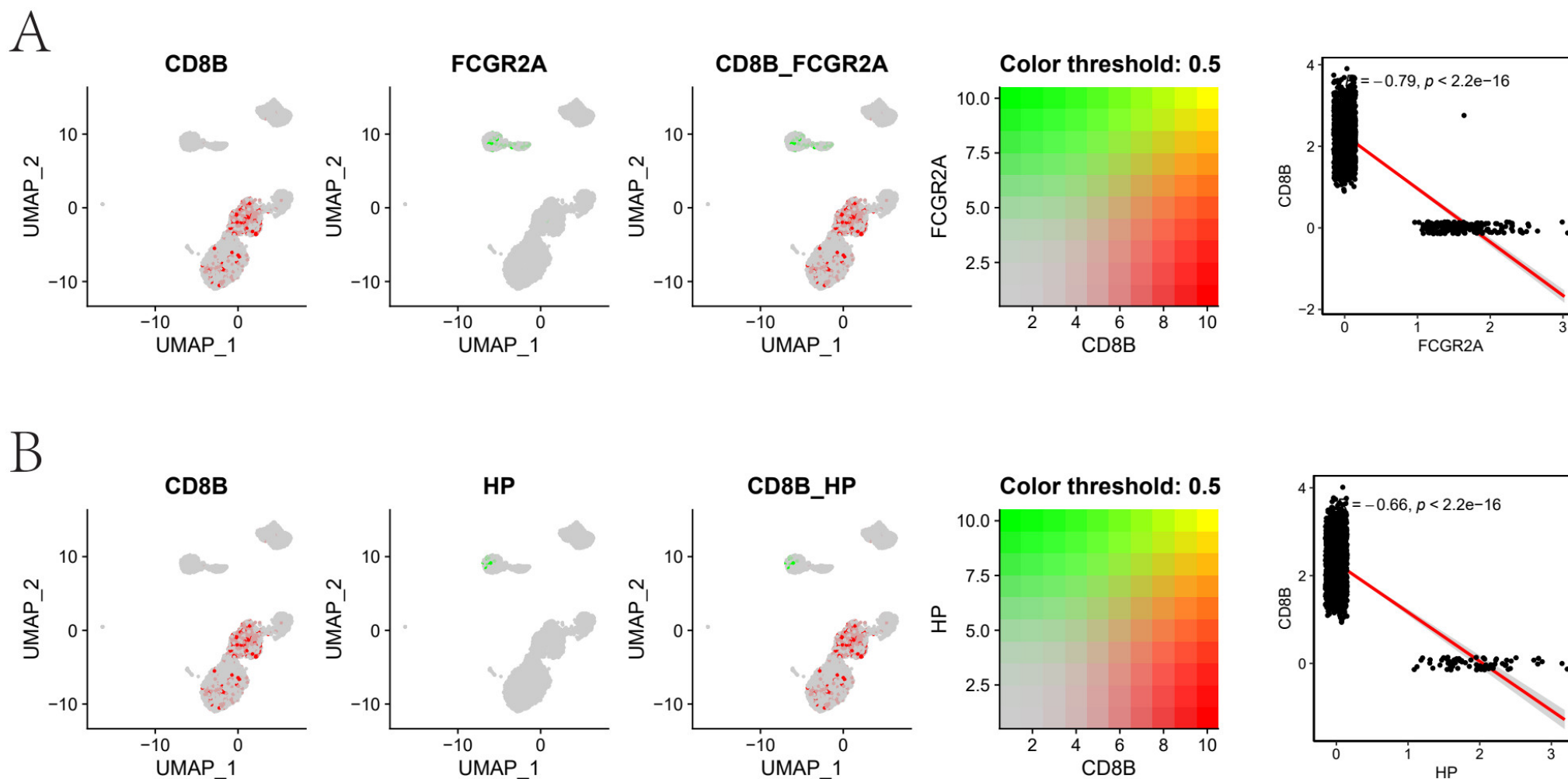
Supplementary Figures 1-5.

Supplementary Table S1. Primer sequences used for qRT-PCR.

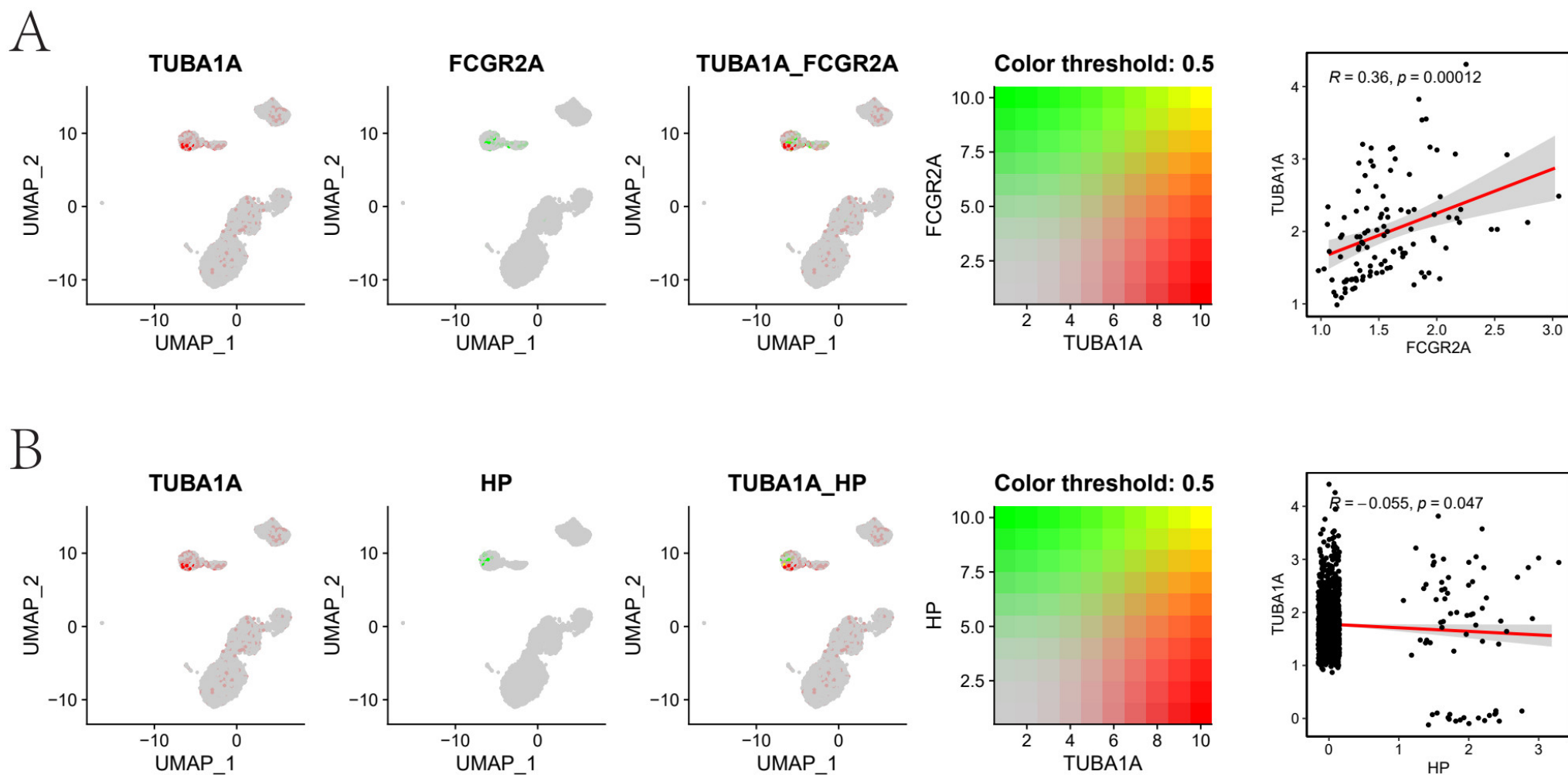
Gene Symbol	Forward Primer (5' -> 3')	Reverse Primer (5' -> 3')
CD8B	CAAGCCGGTTCATTCTCAAT CTC	GAAGGAAATCAACCACACTC AGC
GZMM	GGTCTCACCTTCCACATCAA GG	ACTTTCCCGTCCAGCTGAAG
MYL12 B	CTGAAGATGTCATCAGAAAC GCC	CCACTTCCTCATCTGTAAACC GA
TUBA1 A	TGGAGGAAGGTGAGTTTTCA GAG	CCTCTCCTTCAACAGAATCC ACA
FCGR2 A	GGTCAAGGTCACATTCTTCC AGA	GTTTCCTGTGCAGTGGTAATC AC
HP	CACCCTAACTACTCCCAGGT AGA	ATCCTTTGAAGGTAGGCAGA TGG
GAPDH	AAGCTCATTTCTGGTATGA CAA	CTTACTCCTTGGAGGCCATGT



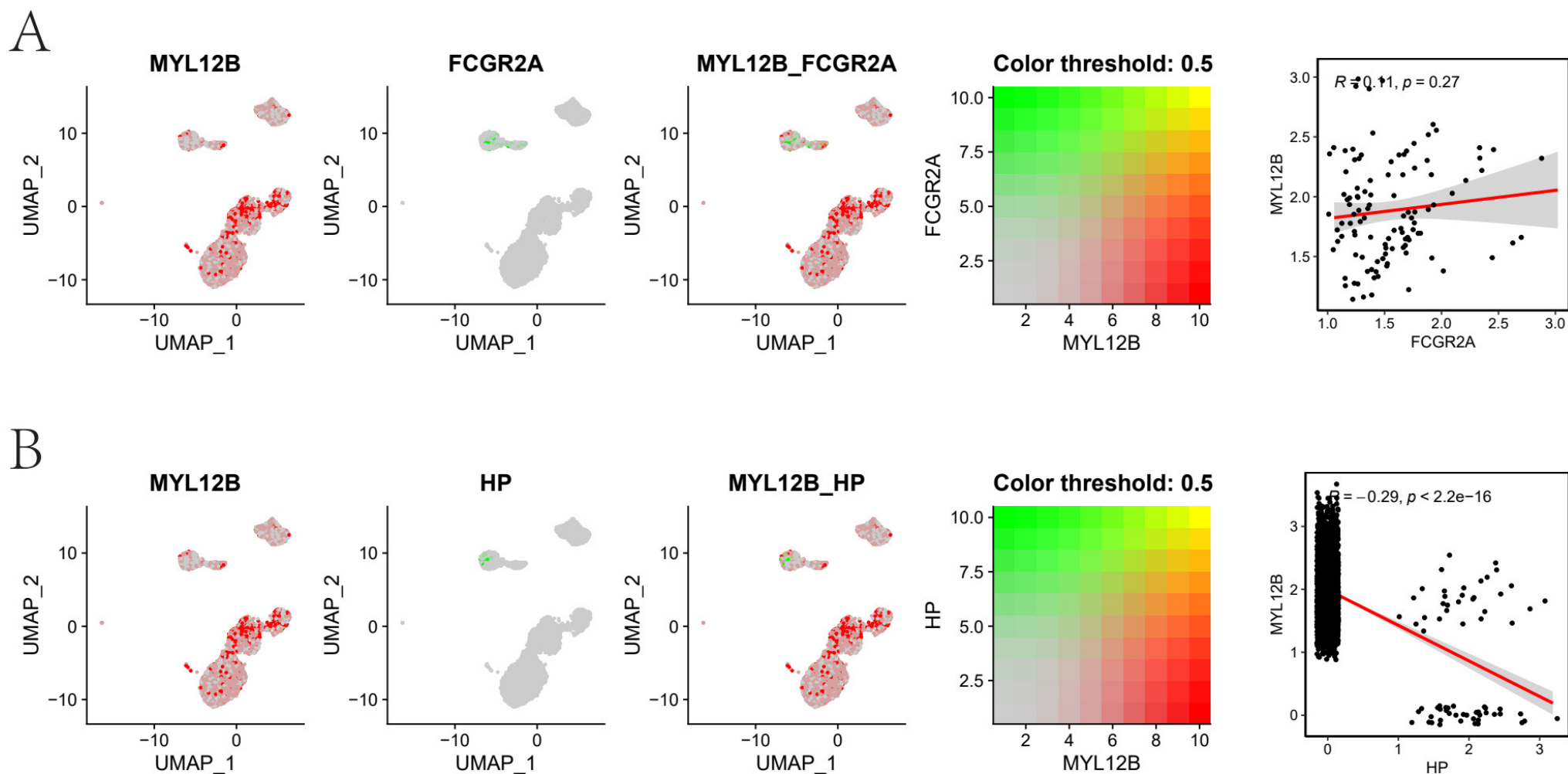
Supplementary Fig. 1 Single-cell preprocessing. (A) Distributions of nCount_RNA, nFeature_RNA, percent.mt, and percent.ribo across groups. (B) Pairwise relationships among sequencing depth, detected genes, mitochondrial percentage, and ribosomal percentage. (C) Highly variable genes. (D) Principal-component variance. (E-F) PCA before and after Harmony integration, colored by sample.



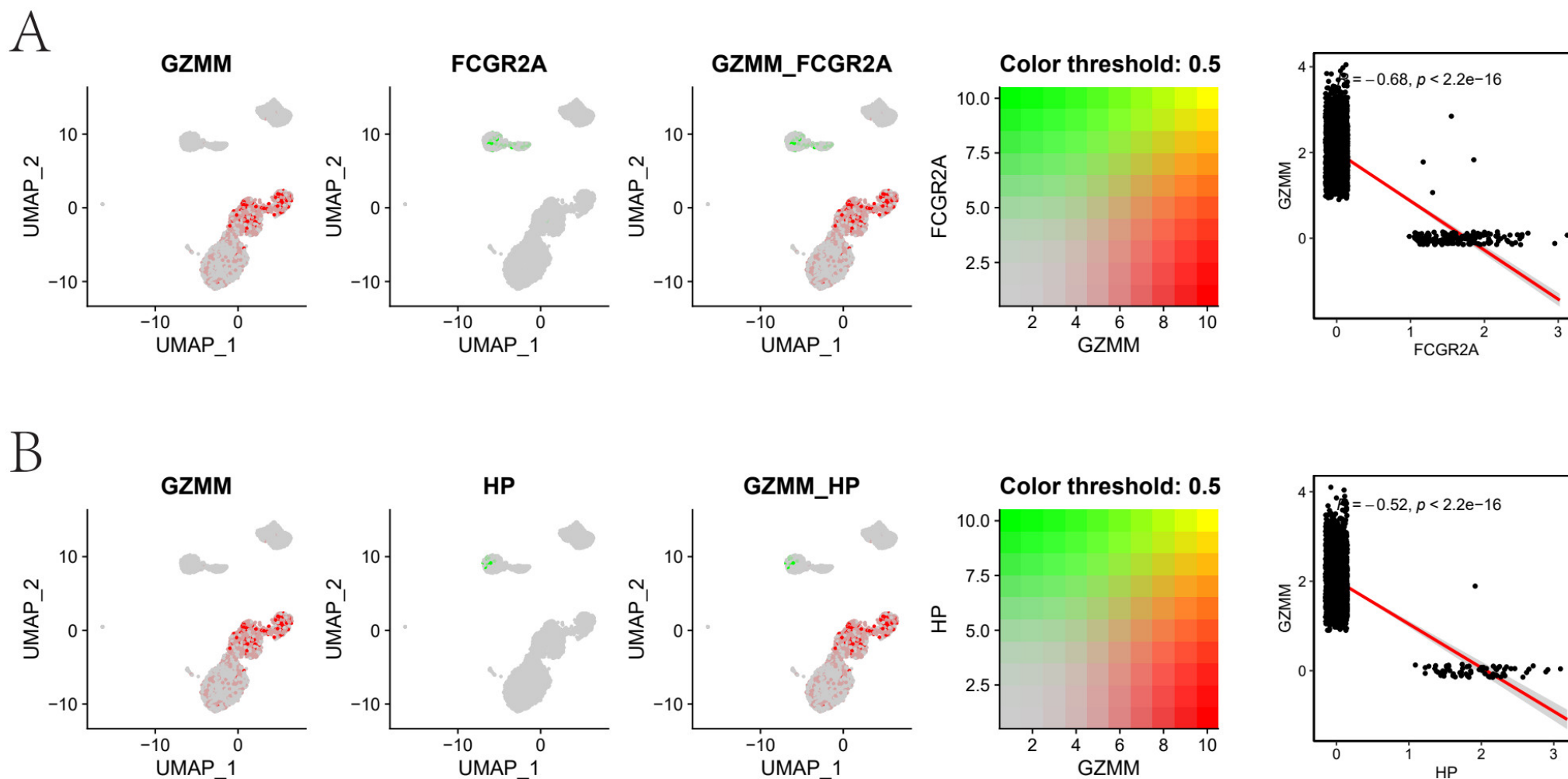
Supplementary Fig. 2 Single-cell co-expression analysis of CD8B with FCGR2A and HP. (A) Single-cell expression and co-expression patterns with FCGR2A. (B) Single-cell expression and co-expression patterns with HP; scatter plots show the corresponding expression correlations.



Supplementary Fig. 3 Single-cell co-expression analysis of TUBA1A with FCGR2A and HP. (A) Single-cell expression and co-expression patterns with FCGR2A. (B) Single-cell expression and co-expression patterns with HP; scatter plots show the corresponding expression correlations.



Supplementary Fig. 4 Single-cell co-expression analysis of MYL12B with FCGR2A and HP. (A) Single-cell expression and co-expression patterns with FCGR2A. (B) Single-cell expression and co-expression patterns with HP; scatter plots show the corresponding expression correlations.



Supplementary Fig. 5 Single-cell co-expression analysis of GZMM with FCGR2A and HP. (A) Single-cell expression and co-expression patterns with FCGR2A. (B) Single-cell expression and co-expression patterns with HP; scatter plots show the corresponding expression correlations.