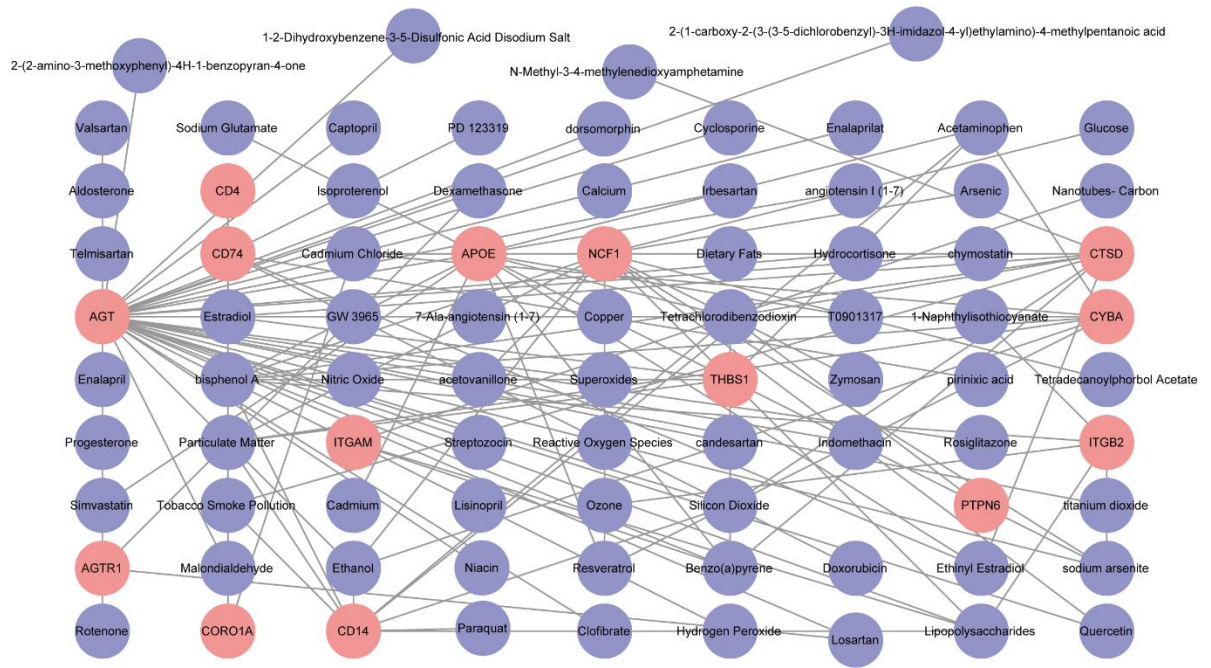
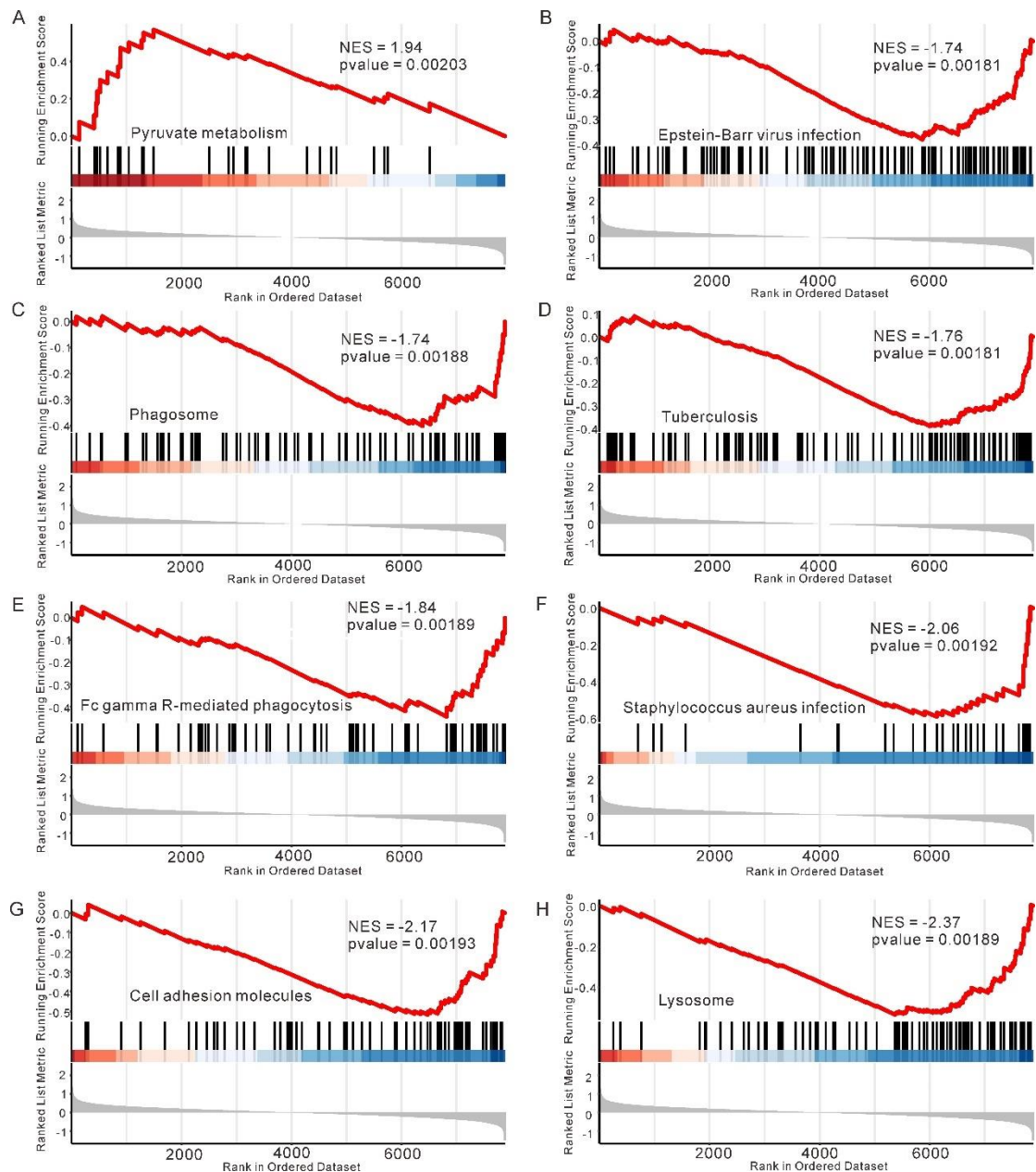


Supplementary Fig. S2. Construction of mRNA-TF interaction network. The mRNA-TF interaction network of hub genes, the red oval block is mRNA, the blue oval block is TF. (TF: Transcription factors)

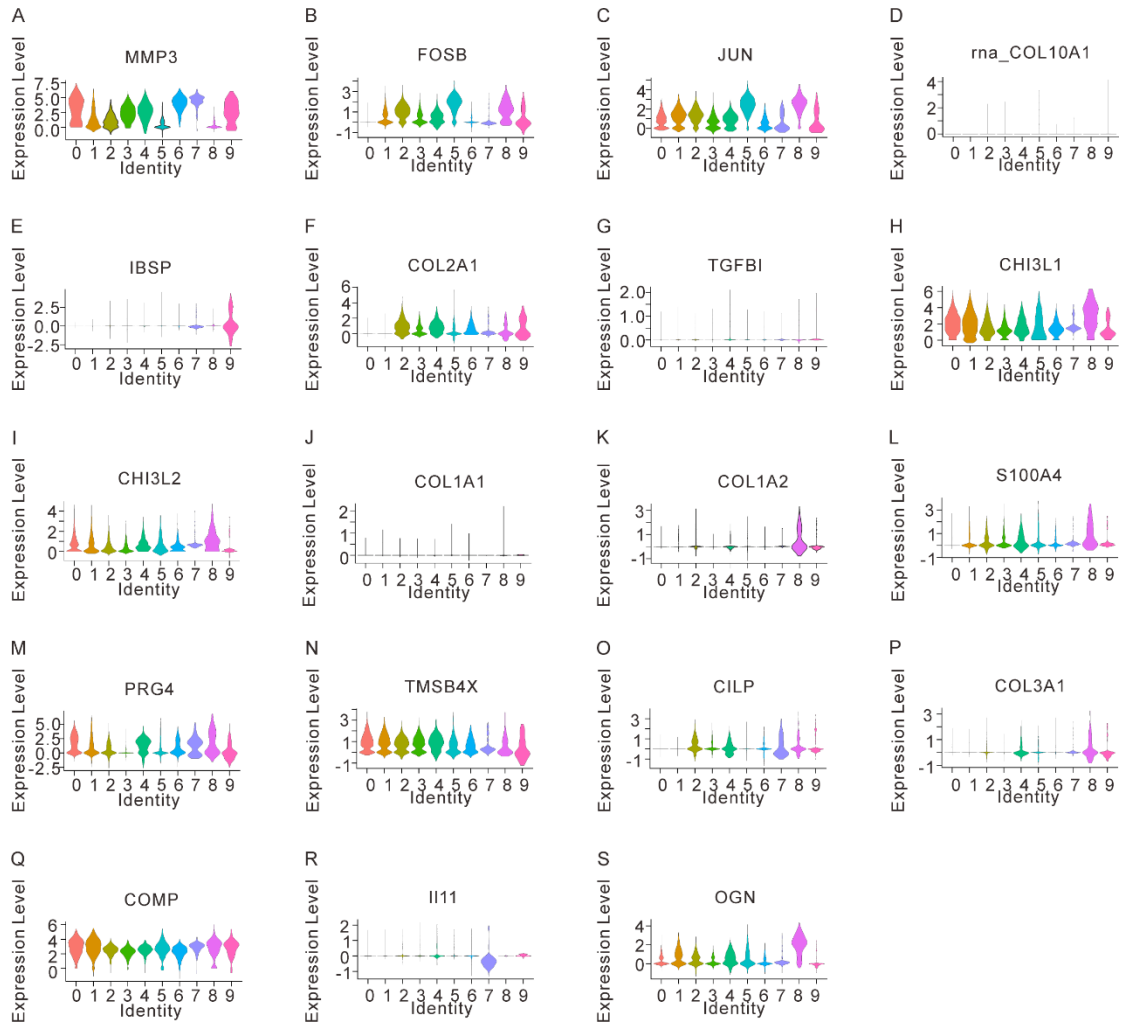


Supplementary Fig. S3. Construction of mRNA--drugs interaction network.

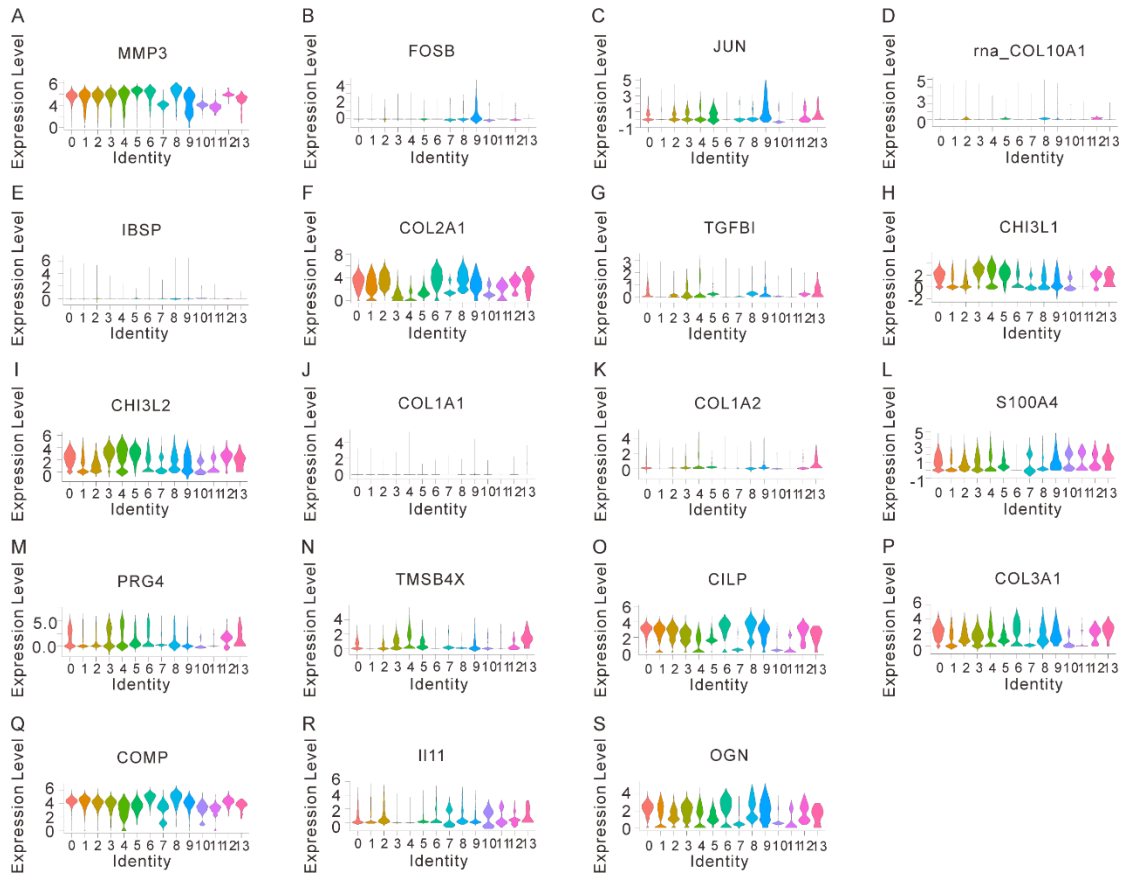
The mRNA--drugs interaction network of hub genes, the red oval block is mRNA, the blue oval block is drugs.



Supplementary Fig. S4. GSEA between High-Pyroptosis score group and Low-Pyroptosis score group. (A) Specific enrichment of the Pyruvate metabolism pathway. (B) Specific enrichment of Epstein-Barr virus infection pathway. (C) Specific enrichment of Phagosome pathway. (D) Tuberculosis pathway enrichment. (E) Enrichment of Fc gamma R-mediated phagocytosis pathway. (F) Specific enrichment of Staphylococcus aureus infection pathway. (G) Enrichment of Cell adhesion molecules pathway. (H) Specific enrichment of Lysosome pathway. (GSEA: Gene set enrichment analysis).



Supplementary Fig. S5. The expression of marker genes in 19 single-cell subgroups in different cell clusters of normal individuals.



Supplementary Fig. S6. The expression of marker genes in 19 single-cell subgroups in different cell clusters of normal individuals.

Supplementary Table S1. A total of 238 genes containing in the MEdred module contains

Gene name

DOK3, ADAP2, TNFAIP2, COLGALT1, PSTPIP1, NCF1, ZSWIM8, IRF5, CYBA, PRR16, WAS, PYCARD, NFYB, SELPLG, LAMA2, MAN2B1, ARRB2, FZD6, AGTR1, PIK3CD, LGALS9, INPP4B, IGFLR1, PLCB4, DENND4B, TMEM47, ITGAM, RHOBTB3, VASP, ARHGAP22, ACOT11, STXBP2, COTL1, CDH19, LOX, ESPL1, STX10, NEDD9, CNN3, TBC1D2, TSPO, ADCY7, ABCC3, RGS19, TSPAN15, SLC15A3, ABCC5, GADD45A, CDC42EP3, CORO1A, PERP, UNC93B1, CD300C, ANPEP, SLC23A2, FGF18, MECOM, CALCRL, GALNT10, GIPC2, PLA2G15, GMIP, CSRP2, SEPT11, ITGB2, SMG9, MARK2, CYP7B1, SLC22A18, SLC2A6, C2, MYB, GRN, NAGA, SERPINA5, RUNDC3B, SNED1, TPCN1, RASSF4, DAPK1, SYT17, TACSTD2, TNFSF13, ADAP1, NAGK, CLN6, HOXB6, PTPN6, TXNRD2, SLC6A12, OGDH, ZDHHC24, ABCC9, SIRPA, TIAM1, KIAA0513, DSG2, GAA, PLK2, KL, CTSD, WASF3, TRPV2, SYNE2, DLX4, THEMIS2, ARHGAP29, S1PR1, RAPGEF5, ATP6V0E2, CD4, EMCN, PDGFRL, ABLIM1, ASPN, GAB1, SCRIN1, GPM6B, SPOCK1, PELI2, EHF, ERG, SLCO2A1, MCOLN1, CILP, SLC1A4, RNF144A, KLF9, DOCK9, EPHB2, DSP, DPP4, TRIM14, ANK2, S100A3, SGCE, PTPRB, CLU, PTGS1, RNASET2, PREX2, STRA6, PLTP, HSD17B14, CD14, SEMA5A, CD74, TMEM51, AJAP1, POSTN, GNG11, TUBB2B, RBMS3, SRPX, TSPAN13, TM4SF1, SVEP1, PTPRK, OSBPL10, KCNN3, SOCS2, C1orf21, SORL1, MAFF, SYNGR3, NR1H3, STEAP1B, FILIP1L, KCNE4, DIO2, STX1A, KLHL3, SPINT1, THBS1, MPDZ, RMDN3, PODXL, SIX3, AP1B1, CD200, ABCB1, FLT1, DOPEY2, RPGR, SIPA1L1, SMCO4, MTUS2, LRRN3, ARHGEF28, ADAMTS9, MYO5C, CLIC5, ANGPT2, RTN1, SMAGP, SFRP1, RPP25, FBN1, CNM4, ITM2A, CDK20, GRB10, CXCL14, TMOD2, APOE, TSPAN2, ID4, PAQR4, PTGER3, RPS6KA1, SIL1, ADAM12, MAPK13, KDR, LAMB1, YWHAH, MMP16, ZMYND10, EFNA1, FZD4, COL21A1, CA8, CHN1, CRISPLD2, PDE5A, SUS4, CARD14, DNASE2, BTC, NID1, TWIST1, BACE2, ALDH2, AGT, APOLD1, NFKBIE, DCLK1, MAP4K4

Supplementary Table S2. The 104 key genes

Gene name

ARRB2, NCF1, TNFSF13, CYBA, PLA2G15, SELPLG, ABCC3, DSG2, COTL1, AP1B1, CD14, PTPN6, NAGA, NR1H3, TRIM14, TRPV2, CD74, CD4, ID4, PYCARD, ITGAM, RNASET2, GRN, TBC1D2, IRF5, ANGPT2, ADAP2, C2, TMEM51, NID1, TMEM47, UNC93B1, ITGB2, MPDZ, SYNE2, CD300C, CDC42EP3, TSPAN15, CORO1A, ERG, LGALS9, TSPO, PRR16, RPS6KA1, GRB10, SYT17, DAPK1, CSRP2, STXBP2, SORL1, APOE, C1orf21, PSTPIP1, MCOLN1, ADCY7, SLC2A6, IGFLR1, FLT1, MAN2B1, LAMA2, GPM6B, SLC15A3, RNF144A, MMP16, APOLD1, COLGALT1, LRRN3, THEMIS2, CTSD, PTGS1, WASF3, FZD6, AGT, DNASE2, BTC, CNN3, PTGER3, SMC04, INPP4B, GAB1, SOCS2, RAPGEF5, KL, WAS, SCRN1, SLC6A12, DOK3, THBS1, MAPK13, ARHGAP29, ADAMTS9, MECOM, TNFAIP2, PLK2, AGTR1, MAP4K4, ABCC9, ZMYND10, HOXB6, SUSD4, PERP, PLCB4, EHF, SVEP1
