

Results of Mendelian randomized analysis of COPD as an exposure factor and AA as an outcome

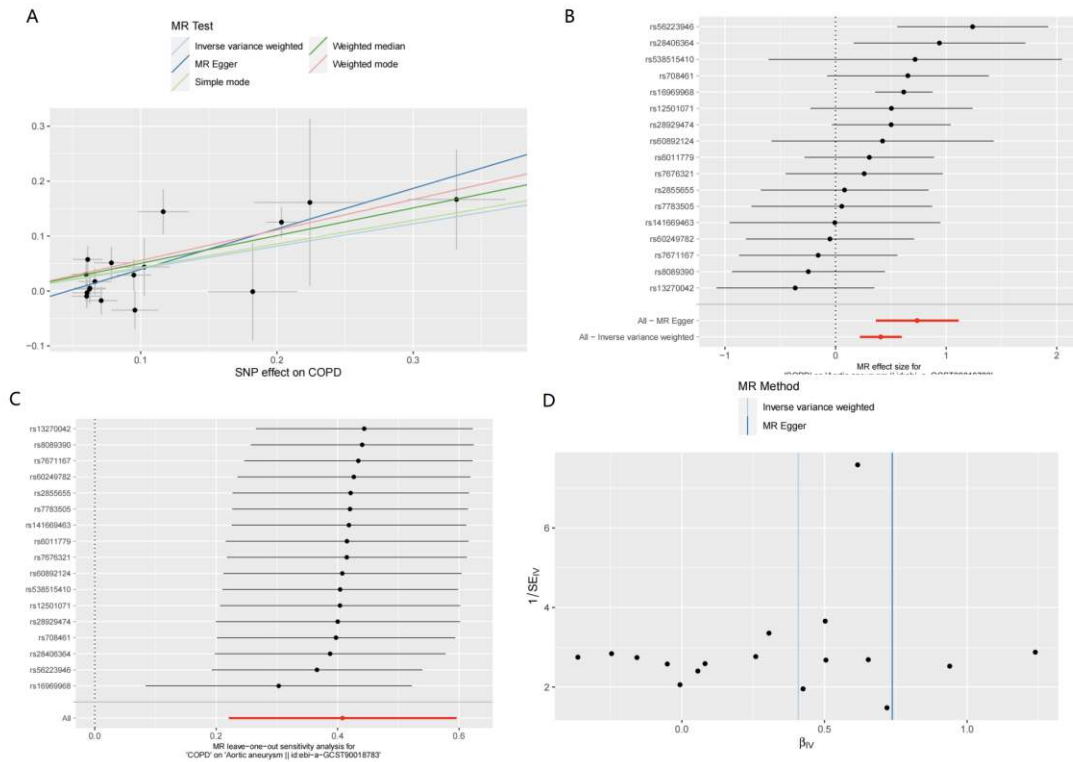


Figure.S1 Results of Mendelian randomization of COPD-AA.(A) scatter plots of causality; (B) forest plots of each SNPs; (C)leave-one-out plots; (D)funnel plots.

Results of Mendelian randomized analysis of COPD as an exposure factor and AAA as an outcome

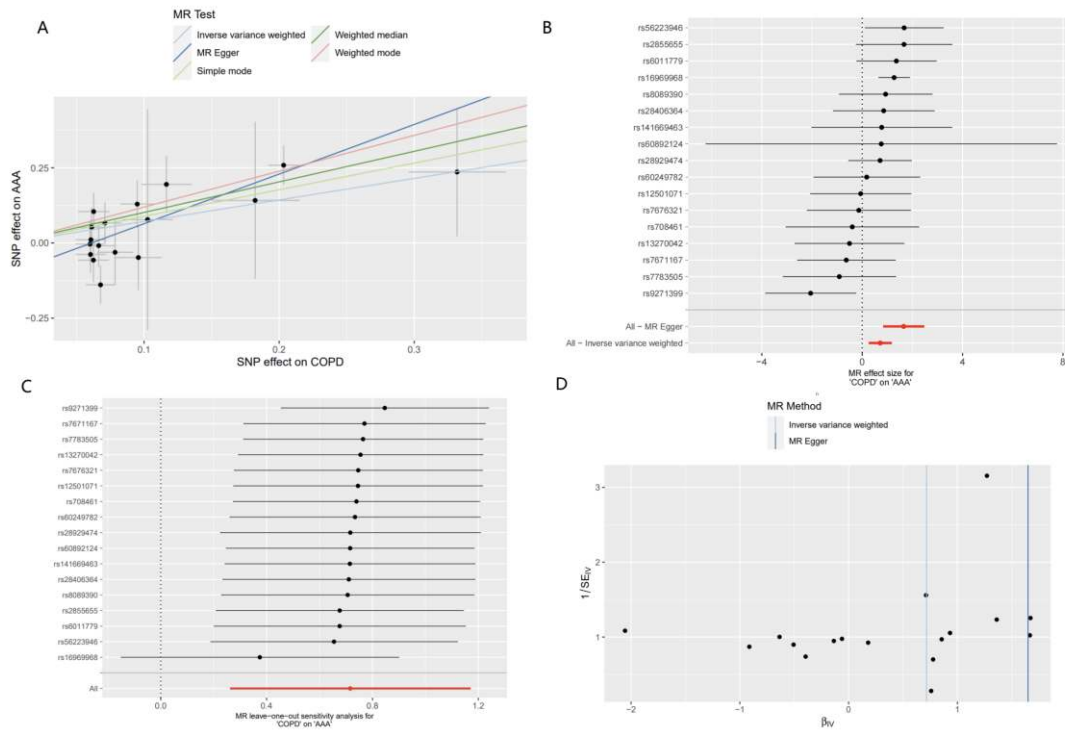


Figure.S2 Results of Mendelian randomization of COPD-AAA.(A) scatter plots of causality; (B) forest plots of each SNPs; (C)leave-one-out plots; (D)funnel plots.

Annotated information on single cell sequencing

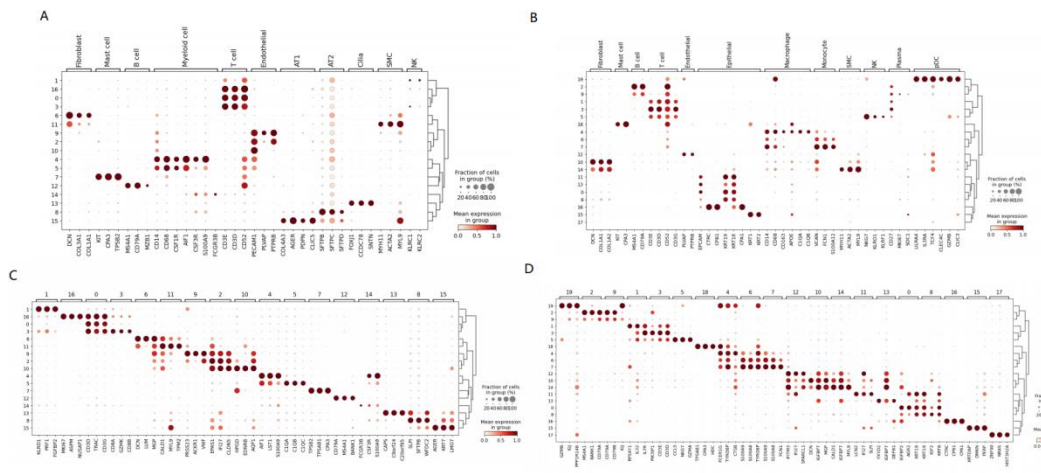


Figure.S3 Annotated information on single cell sequencing.(A) Marker gene expression dot plot of COPD single cell sequencing; (B) Marker gene expression dot plot of AAA single cell sequencing; (C)Annotated dot plot based on COPD cluster-specific marker genes; (D)Annotated dot plot based on AAA cluster-specific marker genes.