

Description Of Additional Supplementary Files

File name: Supplementary Data 1

Description: Sample meta data. Description of cohort samples, including demographic information about donors and technical batch information.

File name: Supplementary Data 2

Description: Severity effects in patients. Severity effect modeled in COVID-19 patients for each gene in each cell type is reported, including effect size estimates, p-values, FDR (permutation-based), and t-statistics.

File name: Supplementary Data 3

Description: Global infection effects. SARS-CoV-2 infection differential expression effect for each gene in each cell type is reported, including effect size estimates, p-values, FDR (permutation-based), and t-statistics.

File name: Supplementary Data 4

Description: Severity effect enrichments. Hallmark enrichments for severity effects are reported for each cell type. Term-specific p-values, FDRs (Benjamini-Hochberg-adjusted), normalized enrichment scores, and leading edge gene sets are included.

File name: Supplementary Data 5

Description: eQTL effects. eQTL effect for the lead cis-SNP per gene is reported across cell types, including local false sign rate (lfsr), effect size estimate, and standard deviation of the effect size estimate.

File name: Supplementary Data 6

Description: Cell state eQTL effects. Cell state eQTL mapping results for the cells states tested for each cell type. Each tab represents a different cell state.

File name: Supplementary Data 7

Description: GWAS-eQTL colocalization results. Colocalization results for eQTL and HGI GWAS phenotypes across cell types and disease states. Only hits with PP4 > 0.80 are shown.