

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: The correlation between PEER factors, other covariates and cell type composition inferred from CIBERSORT

File Name: Supplementary Data 2

Description: The list of eQTLs co-localizing with possible hematopoietic trait-causal variants (Co-localization Posterior Probability = CLPP > 0.1)

File Name: Supplementary Data 3

Description: The list of possibly causal eQTLs (PIP > 0.5) for genes suggested as relevant with COVID-19 severity in a GWAS

File Name: Supplementary Data 4

Description: The list of genes with significantly increased expression in samples with severe COVID-19 status (orange: passing the effect size threshold)

File Name: Supplementary Data 5

Description: The list of genes with significantly decreased expression in samples with severe COVID-19 status (orange: passing the effect size threshold)

File Name: Supplementary Data 6

Description: The list of genes with significantly increased expression in samples with severe COVID-19 status, when including inferred cell type composition as covariates (orange: passing the effect size threshold)

File Name: Supplementary Data 7

Description: The list of genes with significantly decreased expression in samples with severe COVID-19 status, when including inferred cell type composition as covariates (orange: passing the effect size threshold)

File Name: Supplementary Data 8

Description: . The list of regions in intron clusters with significantly increased usage in samples with severe COVID-19 status (orange: passing the effect size threshold)

File Name: Supplementary Data 9

Description: The list of regions in intron clusters with significantly decreased usage in samples with severe COVID-19 status (None of them passed the effect size threshold)

File Name: Supplementary Data 10

Description: The list of interaction eQTLs (interaction variable = COVID=19 severity status) passing FDR threshold