**Description of Additional Supplementary Files** 

File name: Supplementary Data 1

**Description:** Read processing and mapping statistics, and download accessions for all RNA-

seq samples and clinical data from SARS-CoV-2 infected macaques.

File name: Supplementary Data 2

Description: Fragment counts, relative gene expression levels, gene annotations, and

differential expression data for every macaque gene.

File name: Supplementary Data 3

**Description:** Complete lists of significantly differentially expressed gene sets of interest

(including gene names, relative expression data, fold change and P values). Gene sets

include: (A) 1,026 genes significantly upregulated with COVID-19 vs Naive, (B) 65

"neutrophil degranulation" (R-HSA-6798695) genes significantly upregulated during

COVID-19, (C) 162 "neutrophil degranulation" (R-HSA-6798695) genes significantly

upregulated during COVID-19, (**D**) 1,109 genes significantly downregulated with COVID-19

vs Naive, (E) 14 "collagen degradation" (R-HSA-1442490) genes significantly

downregulated during COVID-19, (F) 14 "Signaling by TGF-beta Receptor Complex" (R-

HSA-170834) genes significantly downregulated during COVID-19, (G) 86 genes

significantly upregulated with COVID-19 vs Naive only in Juvenile macaques, (H) 96 genes

significantly downregulated with COVID-19 vs Naive only in Juvenile macaques, (I) 97

genes significantly upregulated with COVID-19 vs Naive only in Old macaques, (J) 160

genes significantly downregulated with COVID-19 vs Naive only in Old macaques, (K) 97

genes significantly upregulated by both COVID-19 and TB and (L) 76 genes significantly

upregulated by COVID-19 but downregulated by TB.

File name: Supplementary Data 4

Description: Significant functional enrichment for Reactome, KEGG and Gene Ontology

pathways, among differentially gene sets of interest. Gene sets include: (A) 1,026 genes

upregulated in COVID-19 vs Naive, (B) 1,109 genes downregulated in COVID-19 vs Naive,

(C) 86 genes signficantly upregulated by COVID-19 only in Juvenile macaques, (D) 160

genes signficantly downregulated by COVID-19 only in Old macaques, (E) 97 genes

significantly upregulated by both COVID-19 and TB, and (F) 76 genes significantly

upregulated by COVID-19 but downregulated by TB.

File name: Supplementary Data 5

**Description:** (A) Clinical characteristics and lab parameters of COVID-19 patients. Clinical

and demographic data were retrieved from the medical records of all participants. These data

included age, gender, anthropometrics, comorbidities, symptoms, triage vital signs, and initial

laboratory test results (**B**) Levels of IFNγ (**C**) Levels of VEGF (**D**) Neutrophil counts and (**E**)

NLR values from plasma and blood samples of COVID-19 patients.

File name: Supplementary Data 6

**Description:** Clinical data of TB-infected macaques.