

Supplementary Material

1 Supplementary Tables

Table S1. Accession of Gene ontology sets retrieved from AmiGO 2 for the analysis of immune cell-specific gene enrichment

Accession	Term	
GO:0042119	Neutrophil activation	
GO:0030593	Neutrophil chemotaxis	
GO:0043307	Eosinophil activation	
GO:0048245	Eosinophil chemotaxis	
GO:0042117	Monocyte activation	
GO:0002548	Monocyte chemotaxis	
GO:0042116	Macrophage activation	
GO:0048246	Macrophage chemotaxis	
GO:0045576	Mast cell activation	
GO:0002551	Mast cell chemotaxis	
GO:0001773	Myeloid dendritic cell activation	
GO:0002407	Dendritic cell chemotaxis	
GO:0030101	NK cell activation	
GO:0035747	NK cell chemotaxis	
GO:0051132	NK T cell activation	
GO:0042110	T cell activation	
GO:0010818	T cell Chemotaxis	
GO:0042113	B cell activation	
GO:0035754	B cell chemotaxis	

Table S2. Details of primers used for qRT-PCR validation of gene expression

Gene symbol	Forward primer 5' to 3' sequence	Reverse primer 5' to 3' sequence	Amplicon Size (bp)
SOCS3	CATCTCTGTCGGAAGACCGTCA	GCATCGTACTGGTCCAGGAACT	98
TRIM56	ACCTACTGCCAAGACTGC	TGGTCTTGAAGGAGGCCAC	112
18S	TGACTCAACACGGGAAACC	TCGCTCCACCAACTAAGAAC	114

2 Supplementary Figures

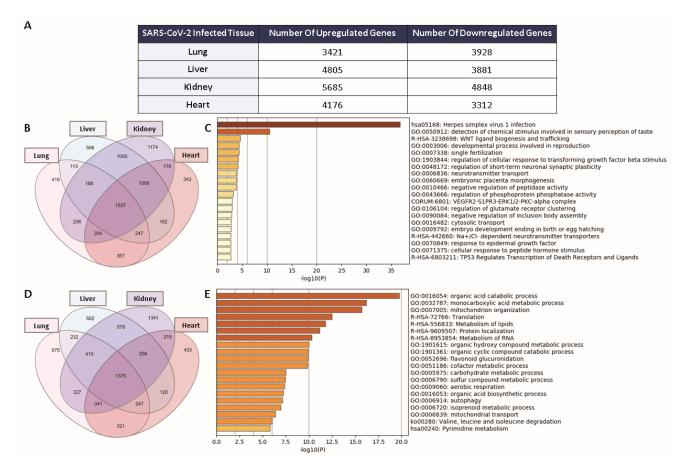


Figure S1. (A) Count of differentially expressed genes from severe COVID-19 autopsy lung, liver, kidney, and heart tissue samples. Venn diagram representation of the overlap of significantly (B) upregulated and (D) downregulated genes amongst the four types of infected tissues. Functional clustering and pathway analysis of the commonly (C) upregulated and (E) downregulated genes across lung, liver, kidney, and heart tissues in response to SARS-CoV-2 infection.