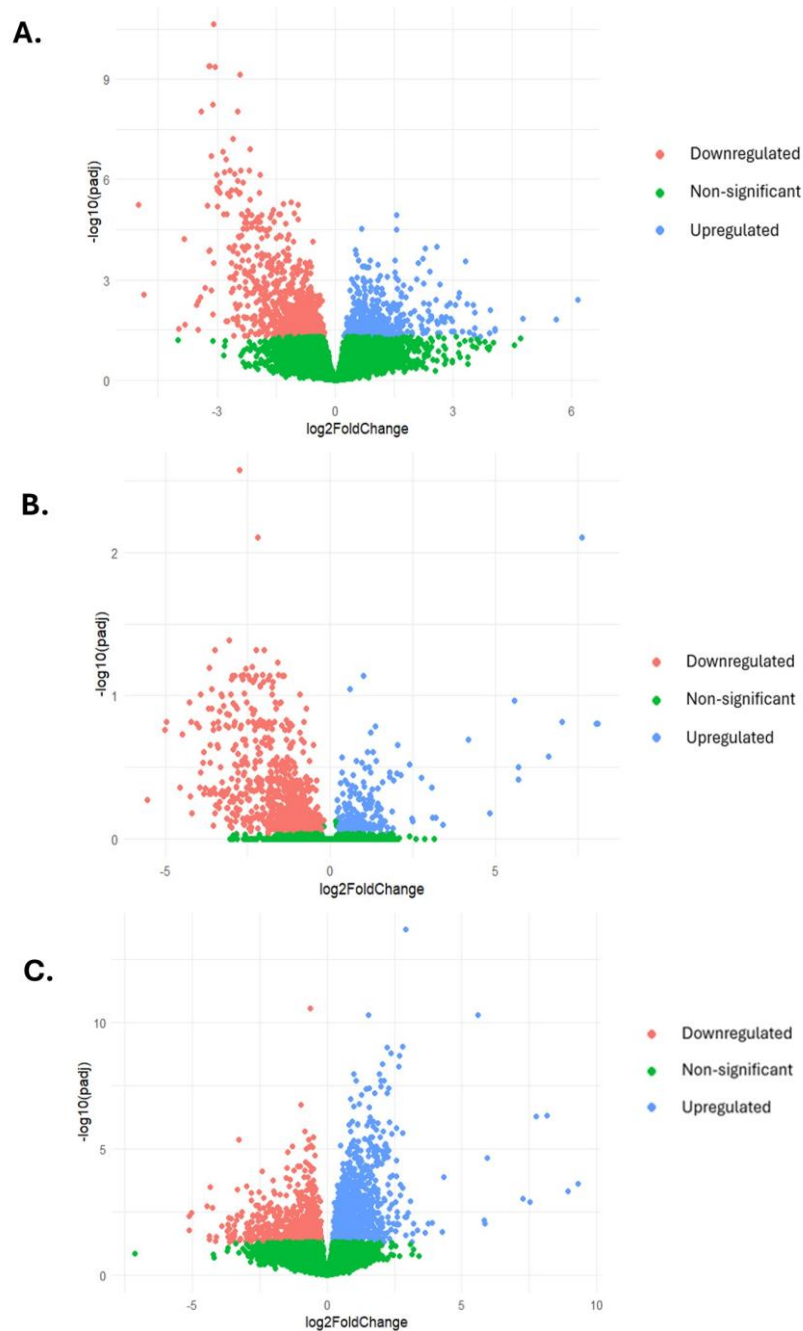
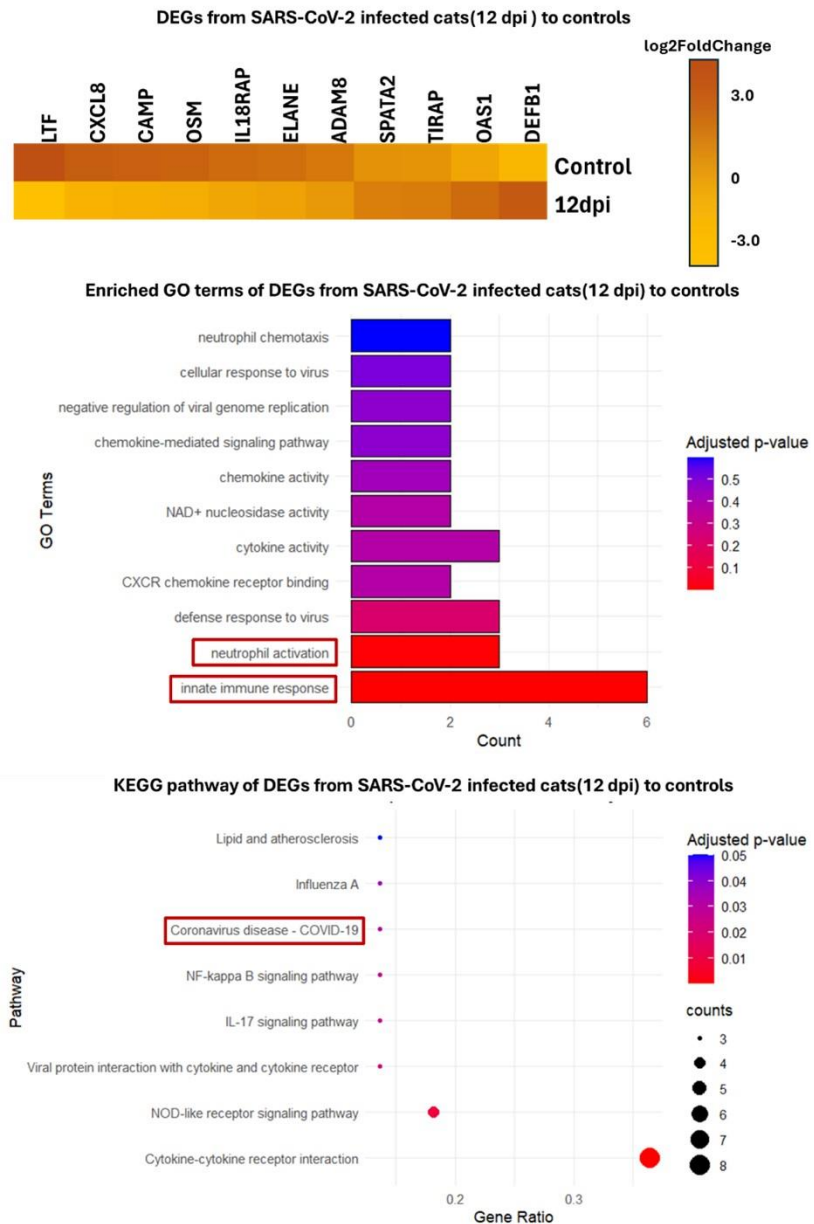


**Figure S1:** Analyzed cytokine concentrations in plasma and BALF from SARS-CoV-2 infected cats.



**Figure S2:** Differentially expressed genes (DEGs) in controls and SARS-CoV-2 infected cats. (A) Differentially expressed genes following comparisons between SARS-CoV-2 infected 4 dpi cats and sham-inoculated controls. The upregulated genes at 4dpi are shown in blue, while the downregulated genes at 4 dpi are highlighted in red. (B) Differentially expressed genes following comparisons between SARS-CoV-2 infected 12 dpi cats and sham-inoculated controls. The upregulated genes at 12 dpi are shown in blue and the downregulated genes are highlighted in red. (C) DEGs following comparisons between SARS-CoV-2 infected 4 dpi and 12 dpi cats. Upregulated genes at 4 dpi are shown in blue and downregulated genes at 4 dpi are highlighted in red.



**Figure S3:** Heatmap and enrichment analysis of differentially expressed genes at 12 dpi SARS-CoV-2 infected cats versus sham-inoculated controls.

**Table S1:** Primer sets for real-time PCR.

Target	Primers
<i>GAPDH</i>	FW : 5'- AATTCCACGGCACAGTCAAGG-3' RV : 5'- CATTGATGTTGGCGGGATC-3'
<i>NE</i>	FW : 5'- CCAGCGGGTCTTTGAAAACG-3' RV : 5'- ACCCGTACGTTGCTGTTGAT-3'
<i>MPO</i>	FW : 5'- CCC AGT TCA GGA AGC TCC G -3' RV : 5'- CTT GGT CAG AAC AGG GAC GG -3'
Histone 3 ( <i>H3</i> )	FW : 5'- TCGCTTTTGCTATGGCTCGT-3' RV : 5'- GCATGATAGTGACGCGCTTG-3'