Supplementary Figure 1 In silico simulated uncategorized immune cell infiltration in lung tissue between COVID-19 and IPF patients. *P<0.05, **P<0.01 and ***P<0.001, with comparisons indicated by brackets.

Supplementary Figure 2 PID pathway functional enrichment map summary of GSEA in the lung tissues of COVID-19 and IPF patients. Commonality of positive or negative enrichments in the PID pathway gene sets after GSEA assessment using enrichment map visualization in COVID-19 and IPF. Color represents the NES of the gene set in the database as assessed by GSEA. Gene sets that are associated with immune responses or that have a high degree of consistency and overlap in enrichment.
are listed here. Criteria for enrichment significance screening: \( P \)-value <0.05, FDR <0.25

**Supplementary Figure 3** Uncategorized PID pathway functional enrichment map summary of GSEA in the lung tissues of COVID-19 and IPF patients.