S1 Table. Summary of the data sets used in this study.

Data set	Description	PubMed ID and/or GEO
Blanco-Melo D *et al.*, *Cell.* 2020	Alias: SARS2-DEG Purpose: Drug screen and comorbidity identification, GSEA Groups: Human bronchial epithelial cells infected with SARS-CoV-2 (3 replicates) vs. uninfected (3 replicates)	32416070 GSE147507
Bojkova D *et al.*, *Nature.* 2020	Alias: SARS2-DEP Purpose: Drug screen and comorbidity identification, GSEA Groups: Human Caco-2 cells infected with SARS-CoV-2 vs. uninfected	32408336
Zhou Y *et al.*, *Cell Discov.* 2020	Alias: HCoV-PPI Purpose: Drug screen and comorbidity identification 134 strong literature evidence-based pan-human coronavirus target host proteins including 15 newly added proteins	32194980
Gordon DE *et al.*, *Nature.* 2020.	Alias: SARS2-PPI Purpose: Drug screen and comorbidity identification 332 proteins involved in the protein-protein interactions with 26 SARS-CoV-2 viral proteins identified by affinity purification-mass spectrometry	32353859
Modena BD *et al.*, *Am J Respir Crit Care Med.* 2014	Purpose: To provide DEGs in asthma patients bronchial epithelial cells of 27 control samples, 72 mild asthma samples, and 56 severe asthma samples were obtained by bronchoscopy with endobronchial epithelial brushing	25338189 GSE63142
Weathington N *et al.*, *Am J Respir Crit Care Med.* 2019	Purpose: To provide DEGs in asthma patients bronchial epithelial cells of 38 control samples, 72 mild asthma samples, and 44 severe asthma samples were available by bronchoscopy with endobronchial epithelial brushing	31161938 GSE130499
Lukassen S *et al.*, *EMBO J.* 2020	Purpose: Single-cell study for understanding the association between COVID-19 and asthma This data set contains single-cell data of normal lung and primary human bronchial epithelial cells	32246845
Martin JC *et al.*, *Cell.* 2019	Purpose: Single-cell study for understanding the association between COVID-19 and IBD This data set contains both inflamed and uninflamed cells from the ileal samples of 8 patients with Crohn's disease	31474370 GSE134809
Yuan S *et al.*, *Nat Commun.* 2019	Alias: MERS Purpose: To provide DEGs for GSEA Groups: MERS-CoV infected Calu-3 cells (3 replicates) vs. uninfected (3 replicates)	30631056 GSE122876
Sims AC *et al.*, *J Virol.* 2013	Alias: SARSa Purpose: To provide DEGs for GSEA Groups: SARS-CoV-1 infected Calu-3 cells (3 replicates) vs. uninfected (3 replicates)	23365422 GSE33267
Reghunathan R *et al.*, *BMC Immunol.* 2005	Alias: SARSa Purpose: To provide DEGs for GSEA Groups: SARS-CoV-1 infected patients' peripheral blood (10 samples) vs. normal blood samples (4 samples)	15655079 GSE1739

GSEA, Gene set enrichment analysis. DEG, differentially expressed gene. DEP, differentially expressed protein. PPI, protein-protein interaction. IBD, inflammatory bowel disease.