

DESCRIPTION OF ADDITIONAL SUPPLEMENTARY FILES

Supplementary Data 1. Clinical data and epidemiology information of all patients.

Supplementary Data 2. Cell count per cell type of the single-cell data from the COVID cohort.

Supplementary Data 3. Differentially expressed genes per each cell compartment (B cells, T cells, NK cells, and Myeloid cells).

Supplementary Data 4. Gene ontology analysis of different immune cell compartments (B cells, T cells, NK cells, and Myeloid cells).

Supplementary Data 5. Transcription factor enrichment analysis of Naïve B cells and unswitched memory B cells (US-memory).

Supplementary Data 6. Cell-cell communication probabilities calculation.

Supplementary Data 7. List of antibodies used for spectral flow cytometry.

Supplementary Data 8. Percentages of different cell compartments (B cells, T cells, NK cells, and Myeloid cells) in spectral flow cytometry.

Supplementary Data 9. Marker MFI for each cell type by each patient.