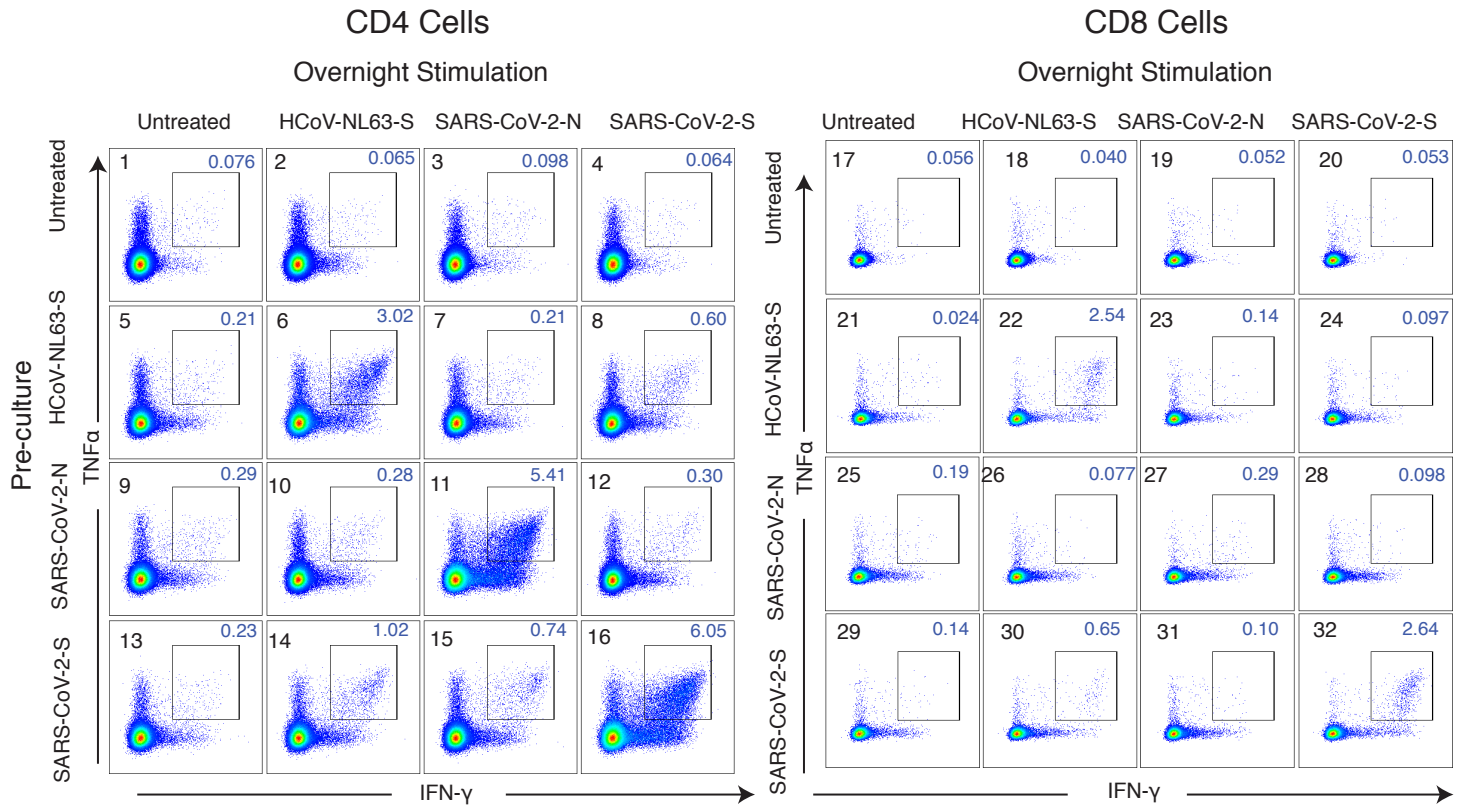
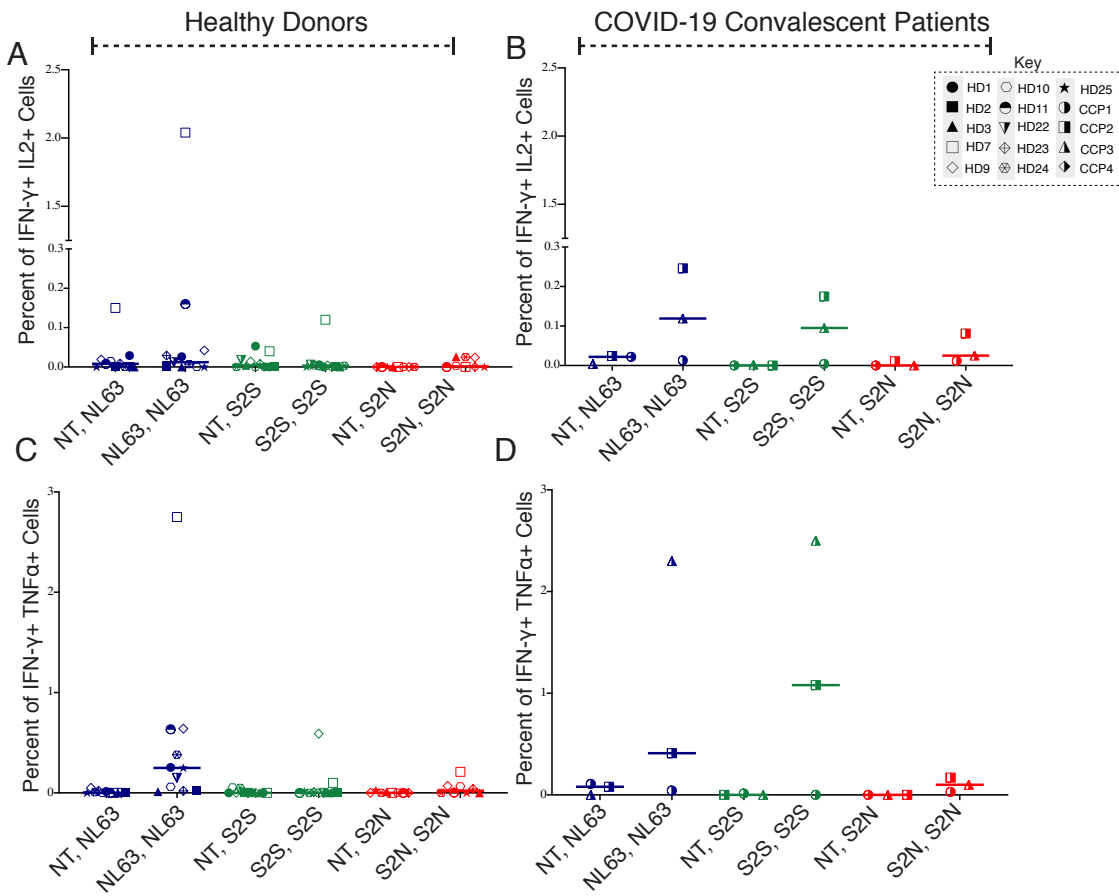


Supplemental Figure 1: IFN- $\gamma$  responses to CEF in unfractionated PBMCs and CD8 Depleted PBMCs. The number of spot forming units (SFU) from unfractionated PBMCs and CD8+ T cell depleted PBMCs (A), and corresponding stimulation indices (B) in response to CEF are shown (n=19). Each data point represents the mean of three replicate values. Horizontal bars represent the median. Statistical analysis was performed with a two-tailed, paired student's t-test.



Supplemental Figure 2: Expansion of antigen-specific memory CD4+ and CD8+ T cell responses from a COVID-19 convalescent patient (CCP3). PBMCs were pre-cultured with peptide pools for 12 days (shown in rows), and then stimulated for 12 hours with peptide pools shown in columns. The percentage of cells that co-express IFN- $\gamma$  (x-axis) or TNF $\alpha$  (y-axis) are shown above the gated box in the upper right corner of each plot.



Supplemental Figure 3: Expansion of antigen-specific memory CD8+ T cell responses. The percentage of cells that co-express either IL-2 and IFN- $\gamma$  (A, B) or TNF $\alpha$  and IFN- $\gamma$  (C, D) are shown in cells from healthy donors (A,C) or COVID-19 convalescent patient T Cells (B,D) following pre-culture for 10 - 12 days and stimulation for 12 hours with peptide pools (n=11 for healthy donors, and n=3 for COVID-19 convalescent patients). In each figure, the peptide pool used to pre-culture is shown first, followed by the peptide pool used in the 12 hour stimulation. Horizontal bars represent the median. NT = Untreated, NL63 = HCoV-NL63, S2N = SARS-CoV-2-N, S2S= SARS-CoV-2-S.