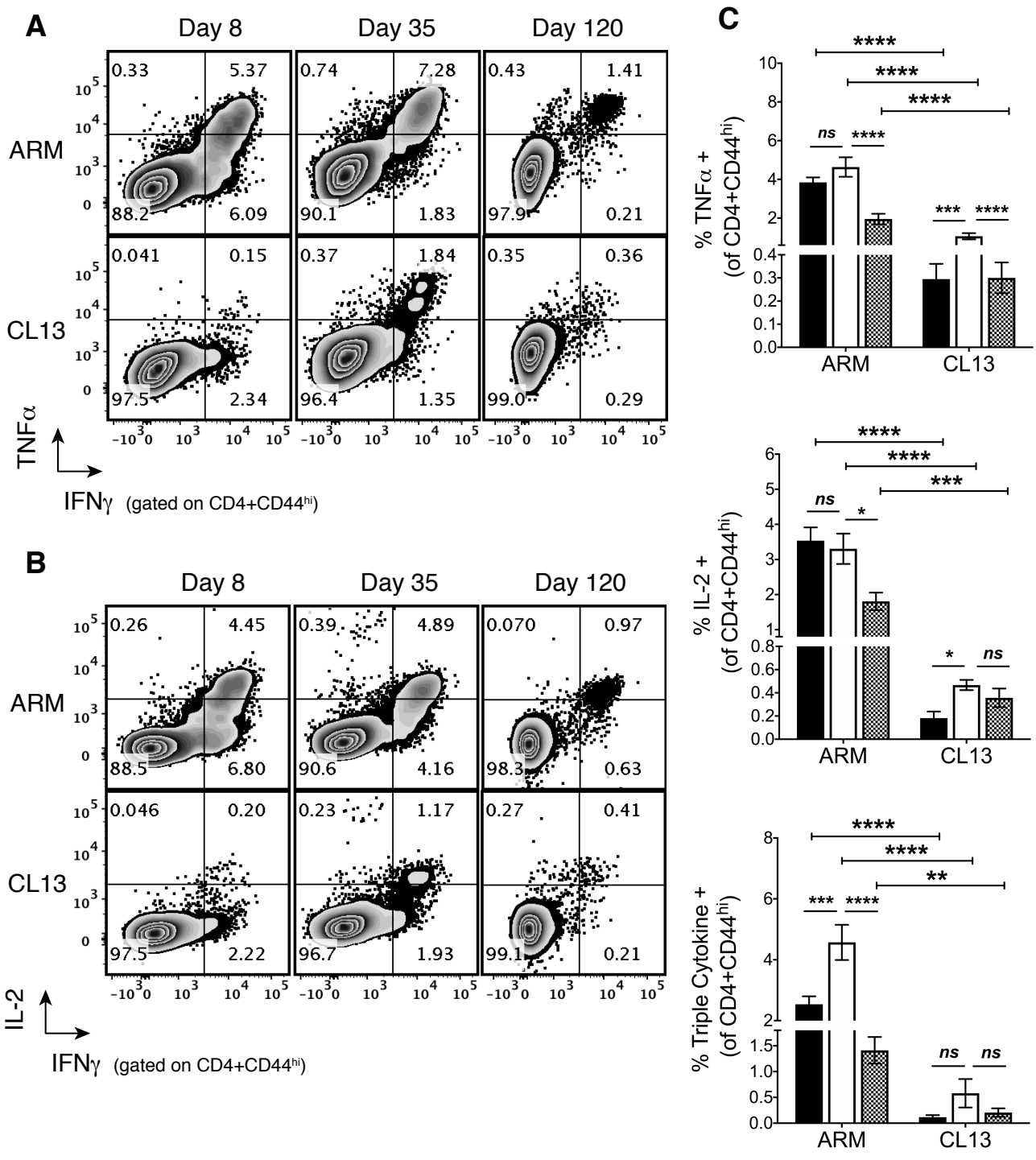
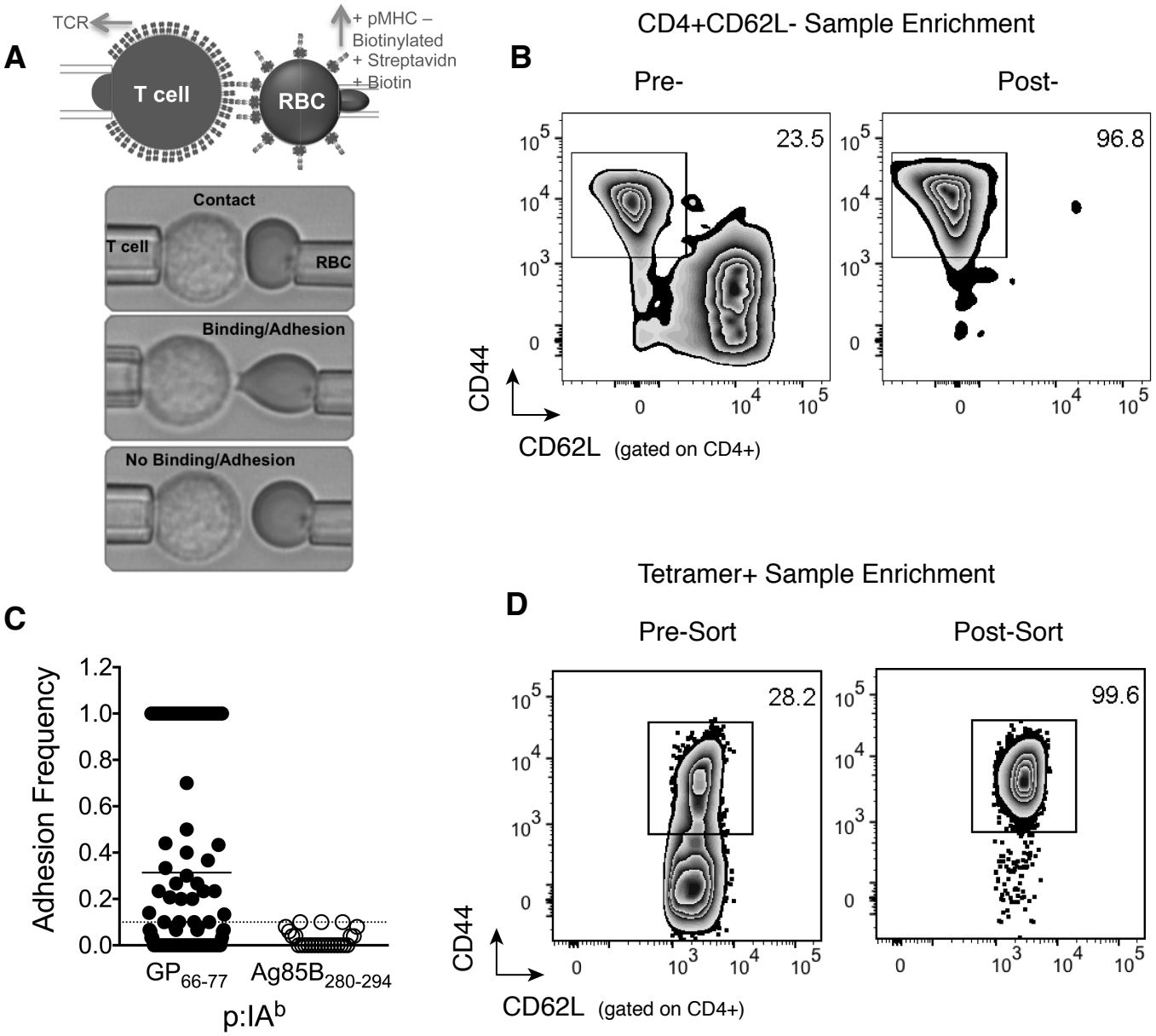
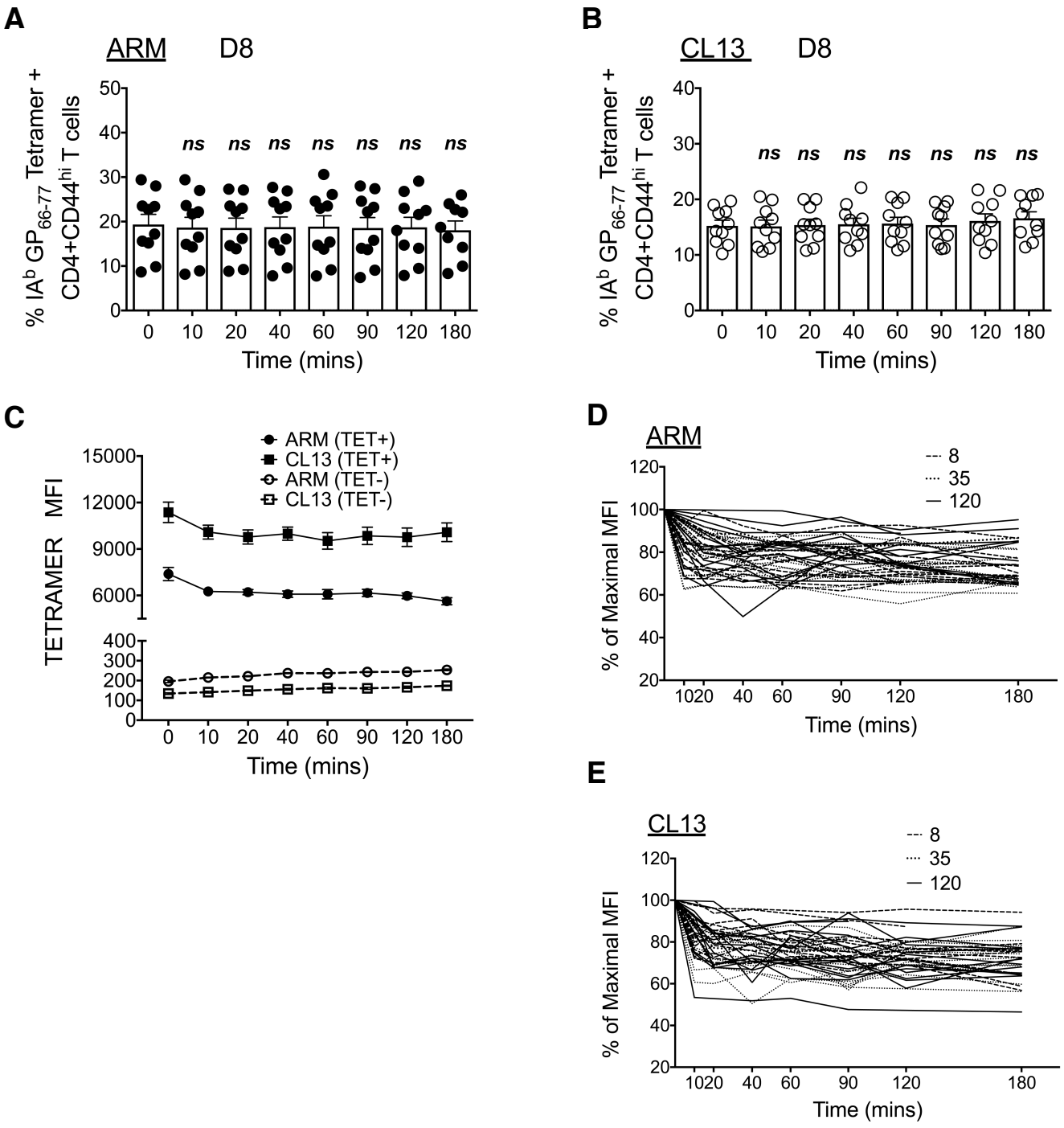


Supplemental Figure 1. Decreased polyfunctionality in chronic infection. Representative flow plots with the frequency of **(A)** IFNγ and TNFα **(B)** IFNγ and IL-2 co-expressing cells in ARM and CL13 at the indicated dpi gated on CD4+CD44hi splenocytes. **(C)** Frequency of TNFα (top), IL-2 (middle)and triple cytokine (bottom) producing cells at the time points and infections represented in the flow plots. Cumulative data with 3-5 independent experiments and a total n=6-17 mice/group at n=2-5 mice/experiment/group. Bar graphs with Mean ± SEM. Statistical significance, ns = no significance, * P > 0.05, ** P > 0.01, *** P > 0.001, **** P > 0.0001, Student t-test (ARM vs CL13), Ordinary one-way ANOVA Tukey's multiple comparison test (between dpi - individual infections).



Supplemental Figure 2. 2D micropipette adhesion frequency assay and T cell sample enrichment. (A) Top, drawing of micropipette held T cell with surface TCR in contact with pMHC coated on human RBC through streptavidin – biotin interaction, and below, (first) a microscope bright-field image at 100x magnification showing the two cells held in contact, (second) a binding event when TCR is specific for the coated pMHC evidenced in the stretching of the RBC membrane as the T cell is retracted away from the RBC, (last) the lack of RBC shape change in the absence of specific binding between TCR and pMHC. **(B)** Representative flow plot of splenocyte enrichment for CD4+CD62L- cells with staining for CD44 and CD62L shown before and after enrichment (shown for day 8 ARM infection). **(C)** ARM d8 sample tested against the LCMV monomer IA^b GP_{66-77} and the control non-LCMV monomer IA^b $Ag85B_{280-294}$ from MTB. Individual points represent a single CD4+CD62L- T cell with cells showing adhesion frequencies between 10-100% (0.1-1.0 y-axis) considered specific to the test antigen. **(D)** Representative flow plot showing IA^b GP_{66-77} tetramer staining of CD4+CD62L- enriched splenocytes from d7 ARM infection before and after sorting (FACS) on tetramer+ cells.



Supplemental Figure 3. Frequency of tetramer+ cells during tetramer decay assay remains unchanged. Frequency of tetramer+ cells at time 0 compared to other decay time points for **(A)** ARM and **(B)** CL13 d8 samples and **(C)** the associated decay in tetramer MFI for tetramer+/- cells in the samples. Data representative of one of three replicates. Tetramer MFI at designated time points was normalized to time 0 MFI and the % MFI plotted for individual mice at the different dpi with **(D)** ARM and **(E)** CL13 infection. Representative of n=13-14 mice, 3-5 independent experiments at n= 4-5 mice/experiment/group. Statistical significance, ns = no significance, Sidak's multiple comparison test (A,B).