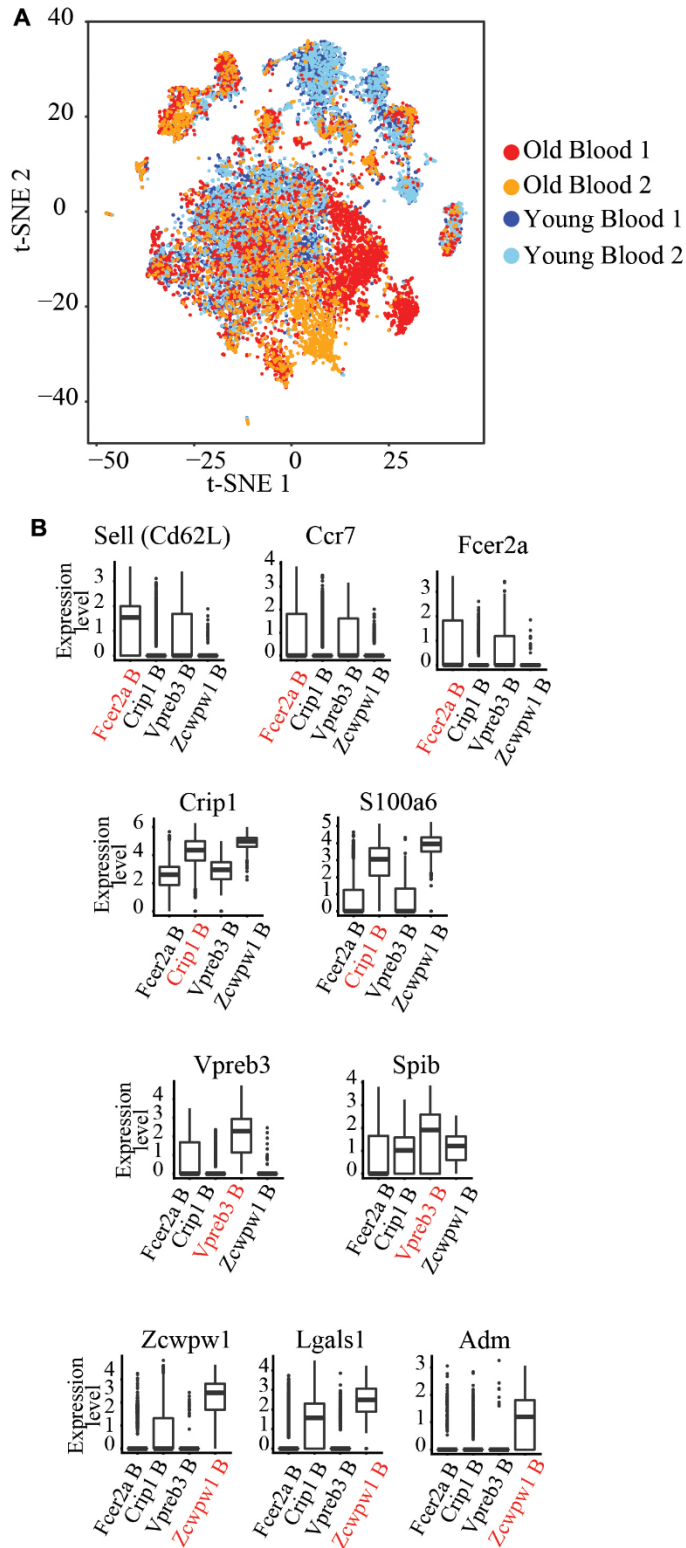
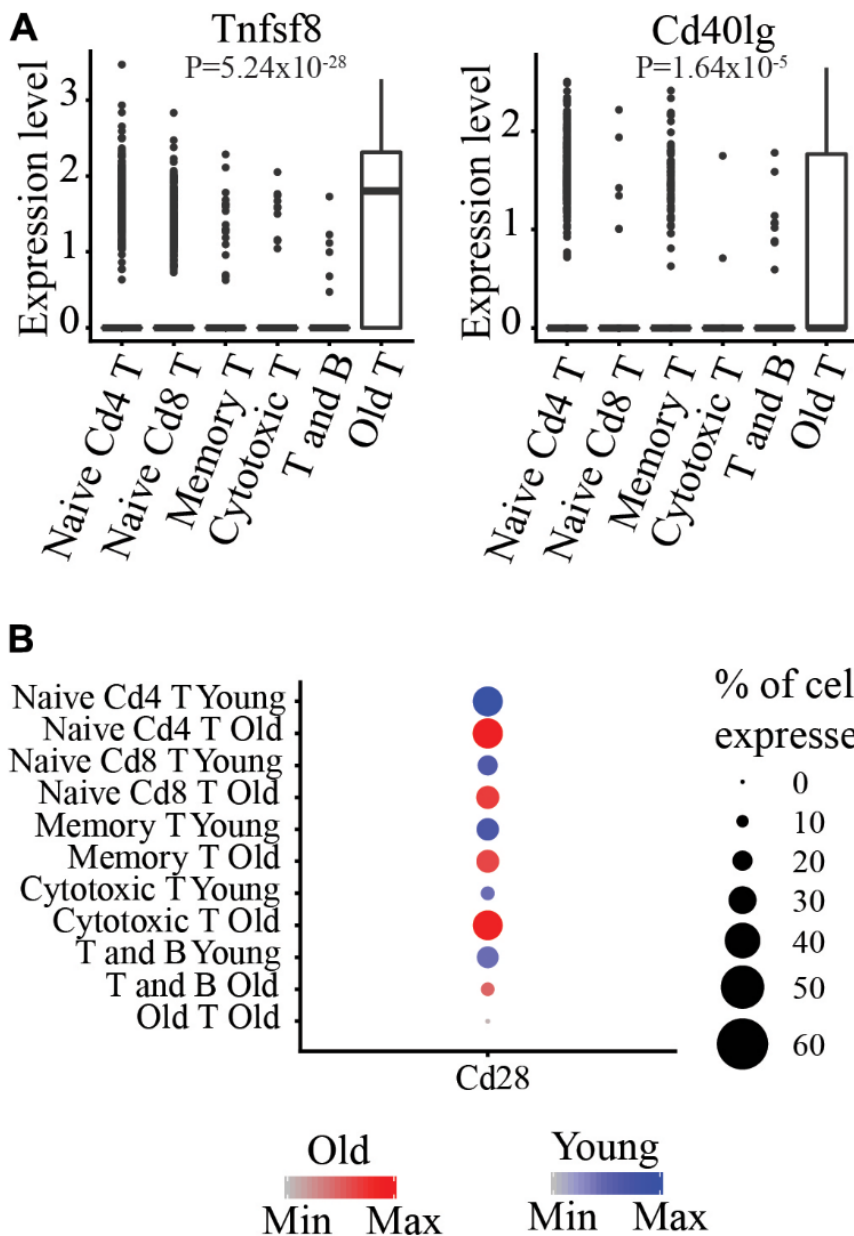


SUPPLEMENTARY FIGURES



Supplementary Figure 1. (A) t-SNE visualization of young and old blood replicates. (B) Boxplots showing the expression levels of the respective marker genes in each B cell cluster. The cluster that the B cells are identified in was indicated in red.



Supplementary Figure 2. (A) Expression level of Tnfsf8 and Cd40lg in T cells clusters. (B) Expression level of Cd28 in Old T cluster and other T cell clusters.