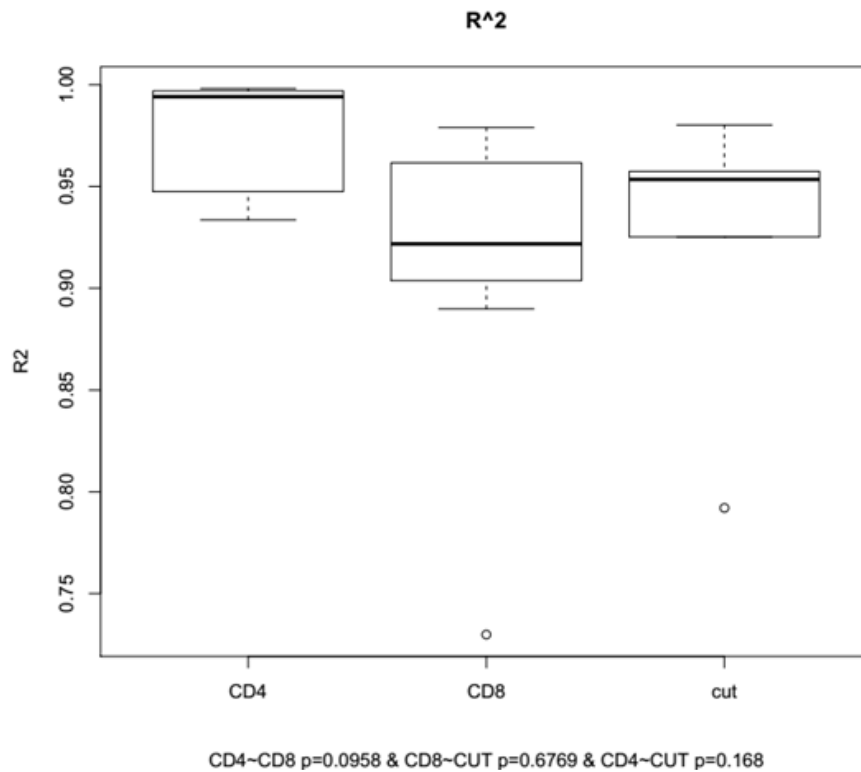
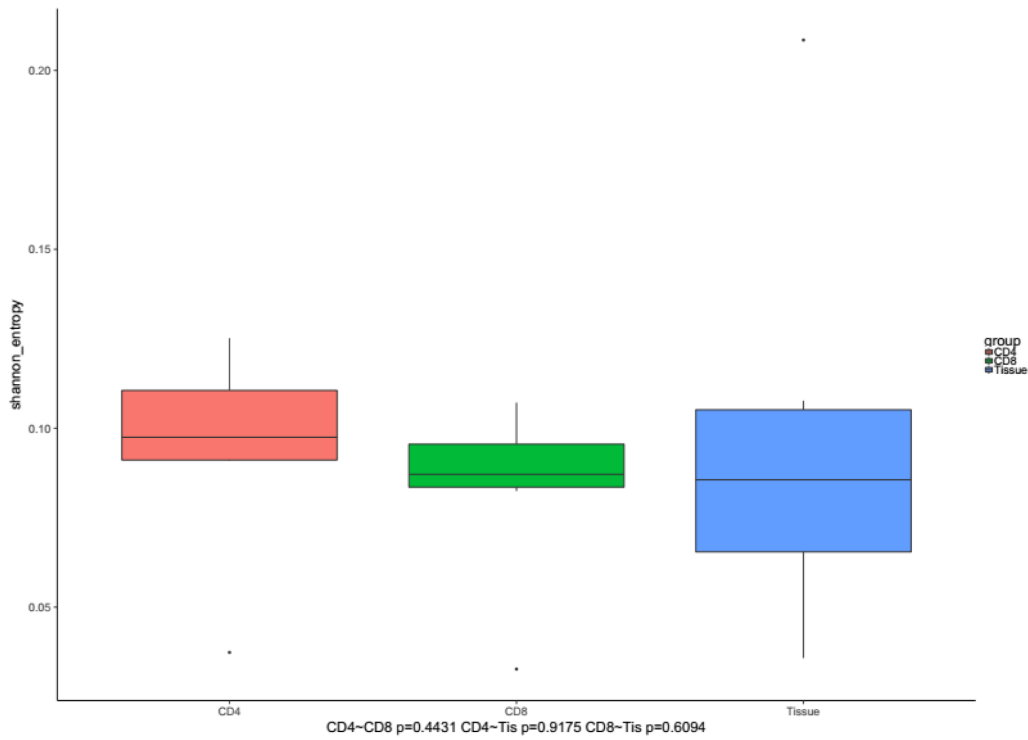


Immunology repertoire study of pulmonary sarcoidosis T cells in CD4+, CD8+ PBMC and tissue

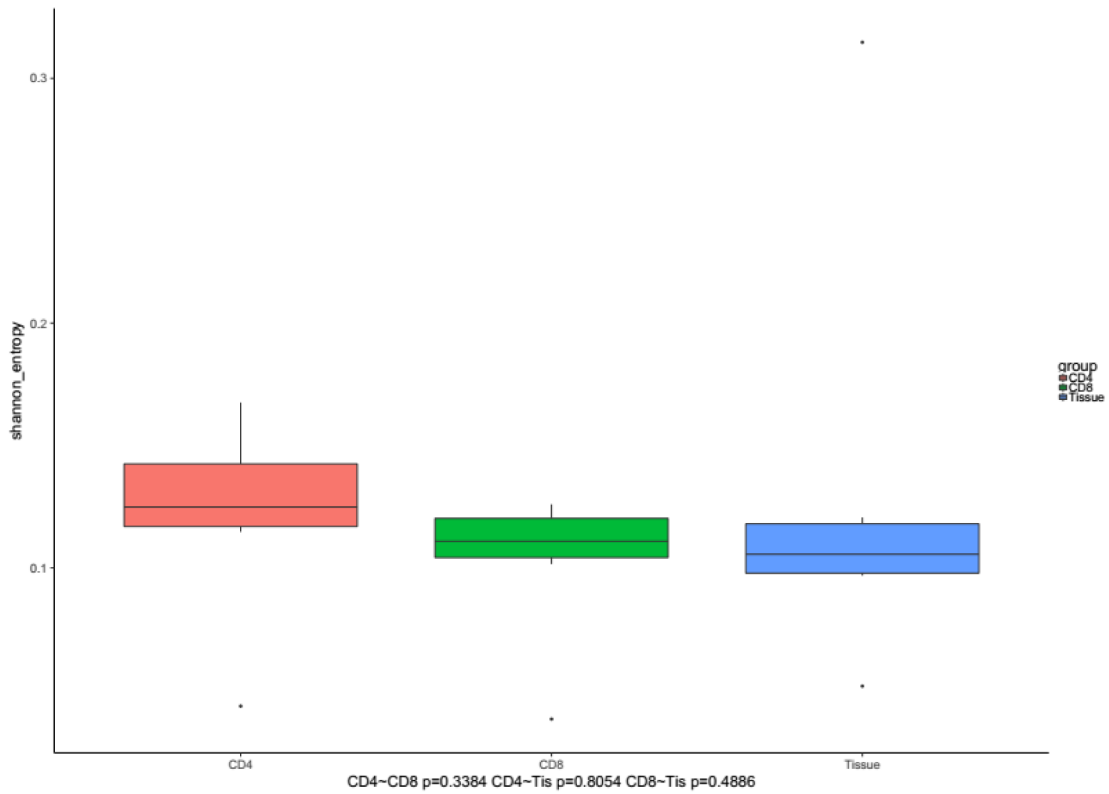
SUPPLEMENTARY MATERIALS



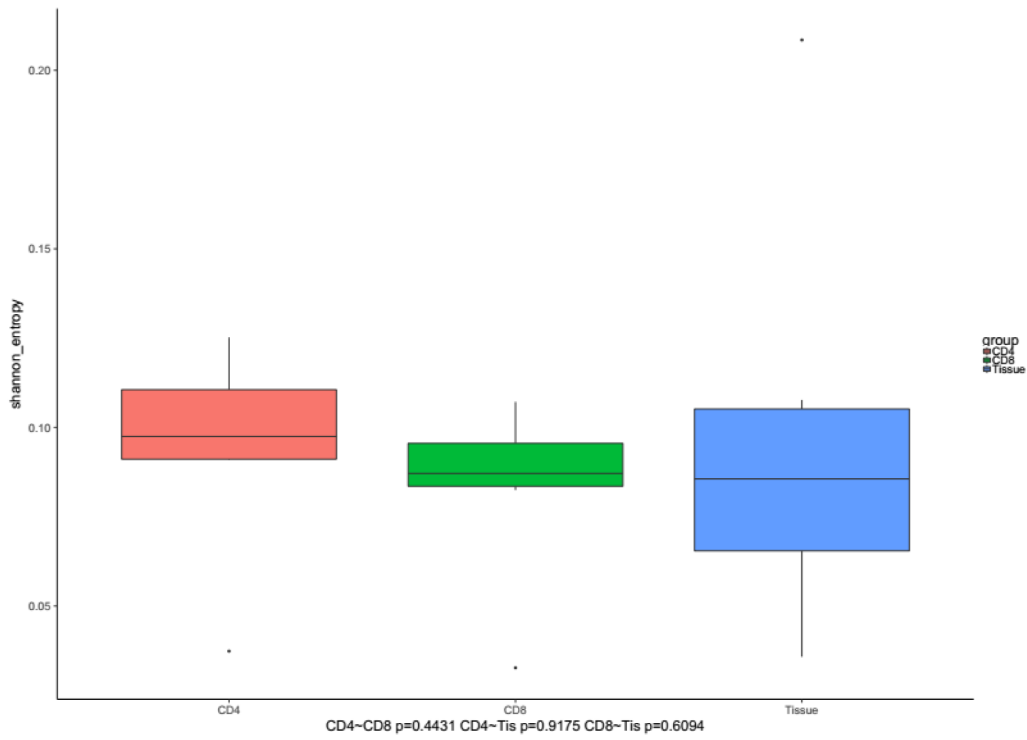
Supplimentary Figure 1: Gaussian distribution and the tissue group is worse fitted (no Sig.)



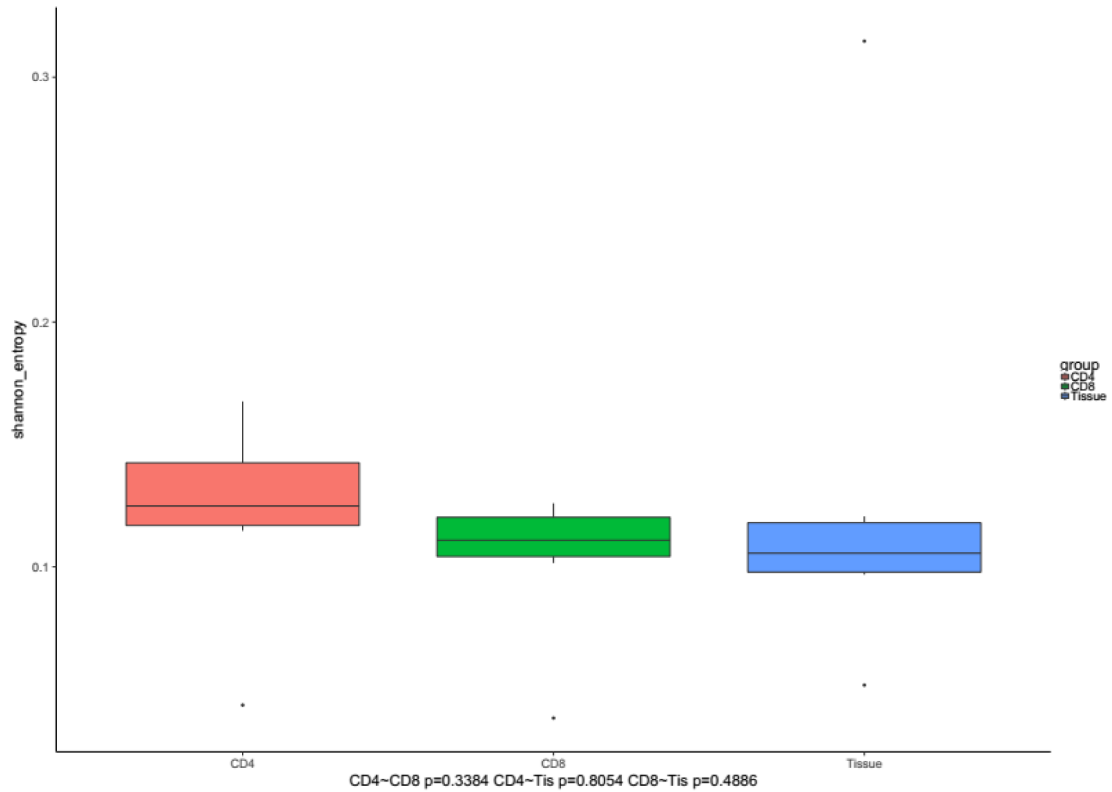
Supplementary Figure 2A: Shannon entropy of TRBV gene CDR3 length diversity



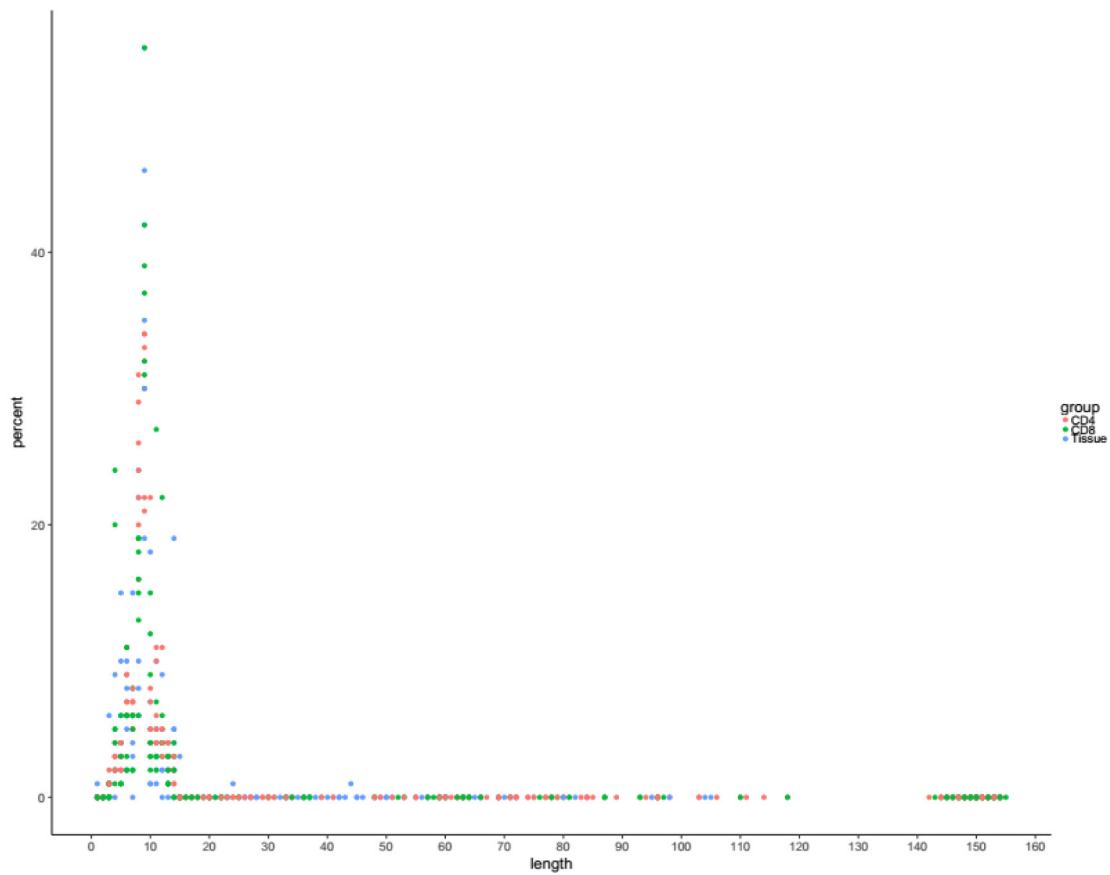
Supplementary Figure 2B: Shannon entropy of TRBV gene CDR3 sequence diversity



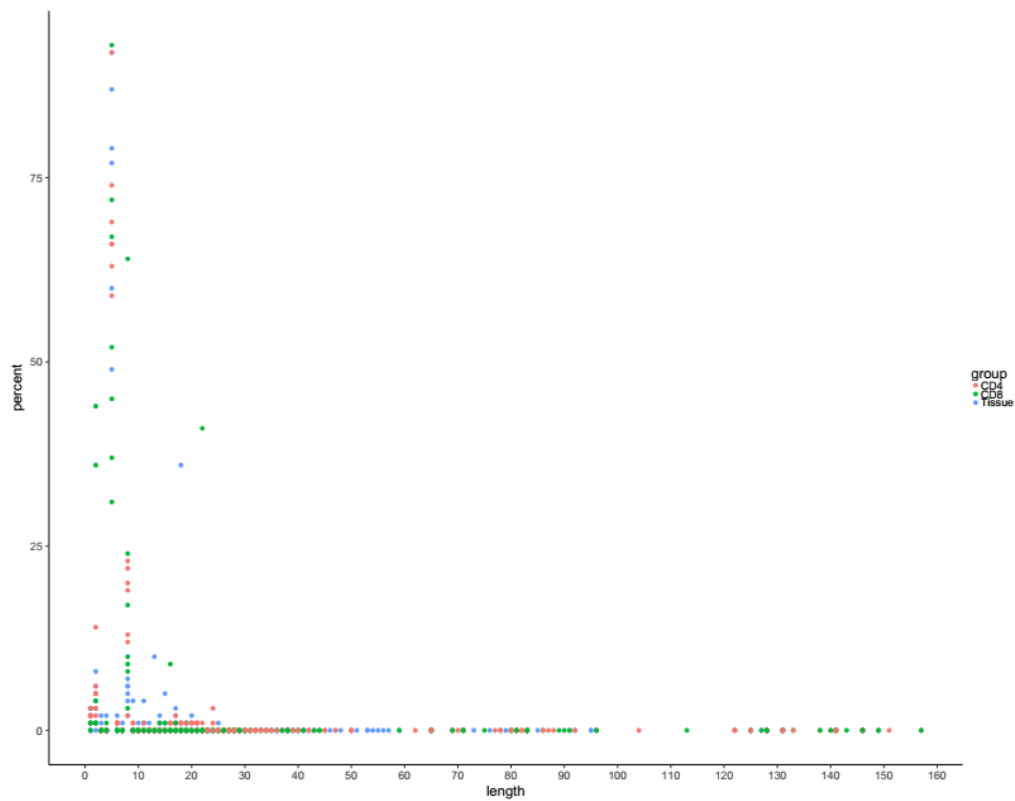
Supplementary Figure 2C: Shannon entropy of TRBV gene CDR3 length diversity



Supplementary Figure 2D: Shannon entropy of TRBV gene CDR3 sequence diversity

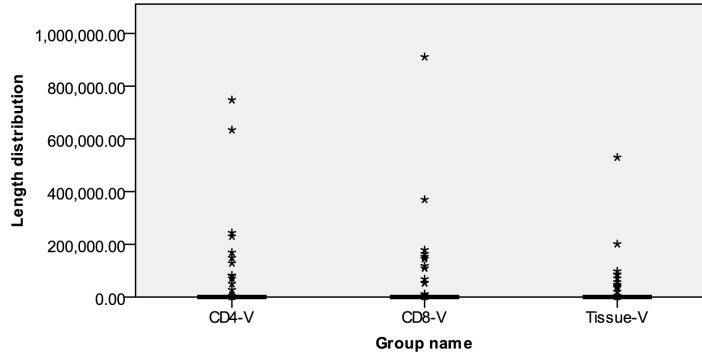


Supplementary Figure 3A: TRBV CDR3 length distribution of CD4+ group, CD8 group and tissue group.



Supplementary Figure 3B: TRBJ CDR3 length distribution of CD4+ group, CD8 group and tissue group.

Independent-Samples Kruskal-Wallis Test

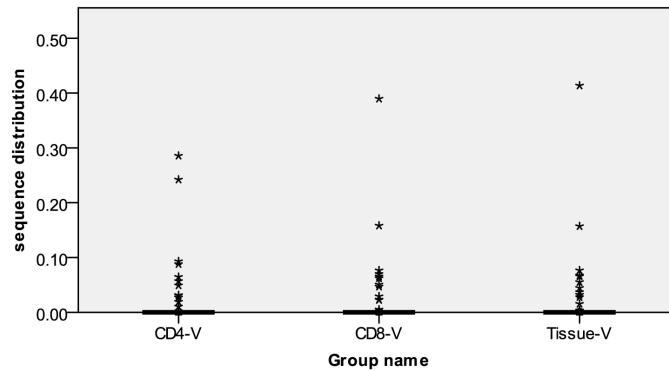


Total N	463
Test Statistic	7.416
Degrees of Freedom	2
Asymptotic Sig. (2-sided test)	.025

1. The test statistic is adjusted for ties.

Supplementary Figure 4A: TRBV CDR3 length distribution analysis;

Independent-Samples Kruskal-Wallis Test

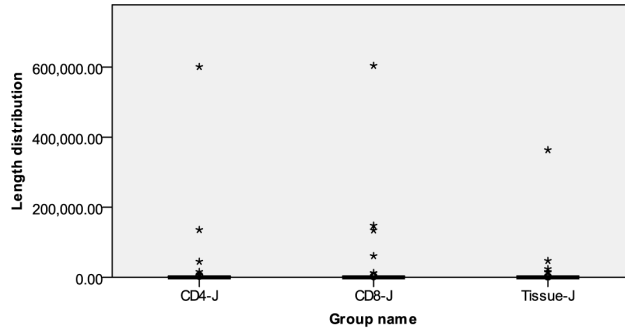


Total N	463
Test Statistic	8.505
Degrees of Freedom	2
Asymptotic Sig. (2-sided test)	.014

1. The test statistic is adjusted for ties.

Supplementary Figure 4B: TRBV CDR3 sequence distribution analysis.

Independent-Samples Kruskal-Wallis Test

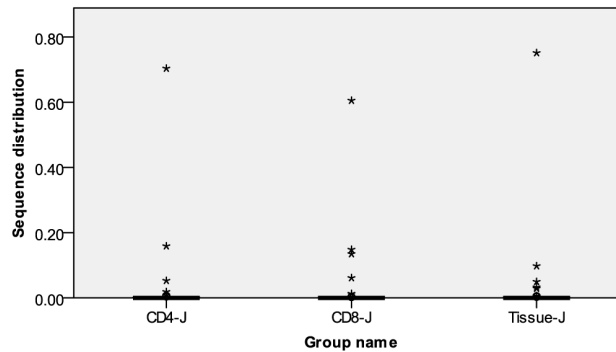


Total N	215
Test Statistic	.398
Degrees of Freedom	2
Asymptotic Sig. (2-sided test)	.820

1. The test statistic is adjusted for ties.
2. Multiple comparisons are not performed because the overall test does not show significant differences across samples.

Supplementary Figure 4C: TRBJ CDR3 Length distribution analysis.

Independent-Samples Kruskal-Wallis Test



Total N	215
Test Statistic	4.844
Degrees of Freedom	2
Asymptotic Sig. (2-sided test)	.089

1. The test statistic is adjusted for ties.
2. Multiple comparisons are not performed because the overall test does not show significant differences across samples.

Supplementary Figure 4D. TRBJ CDR3 sequence distribution analysis;