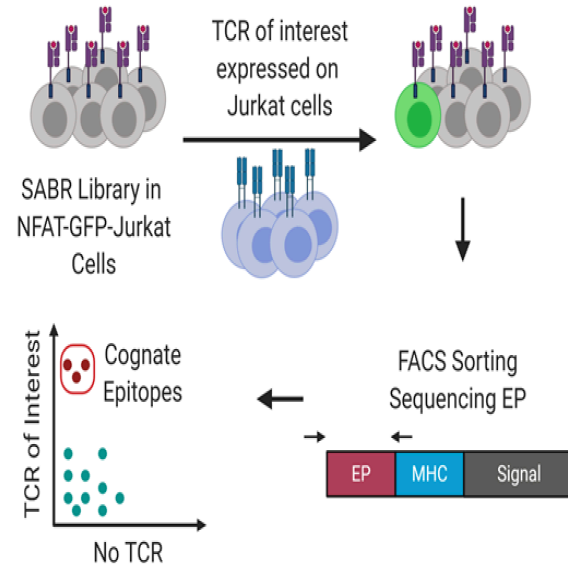


Computational Method of Antigen Discovery through SABR Screen Using R

By Louise Hicks

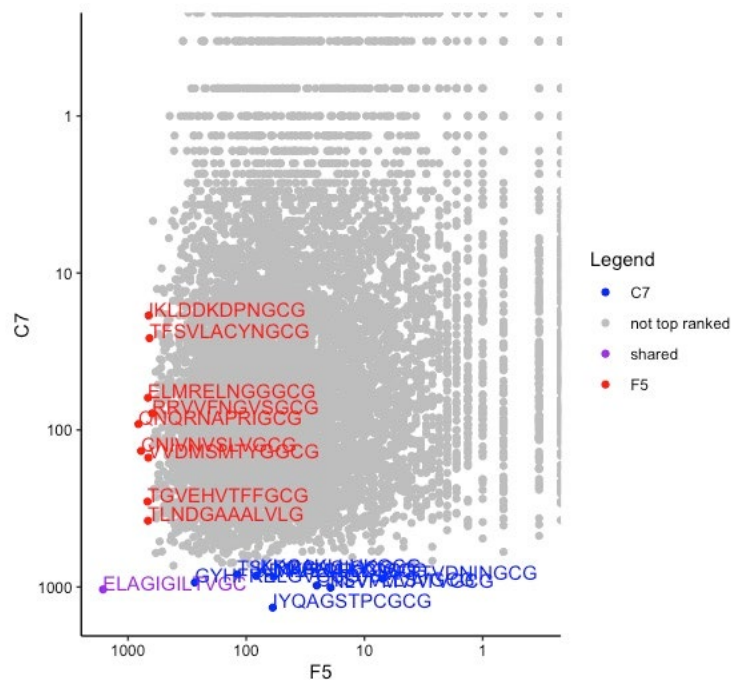
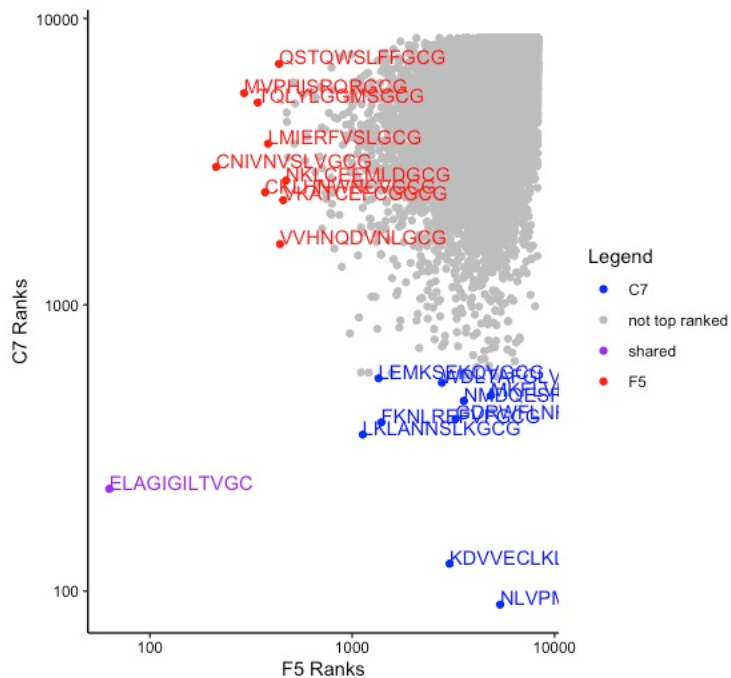
SABR Screen

- SABR libraries used to screen thousands of antigenic epitopes
- Data from ongoing antigen discovery experiment for SARS-CoV-2
- Screen consisted of ~10,000 epitopes for F5, C7, Clonotype 1, Clonotype 2, and No TCR

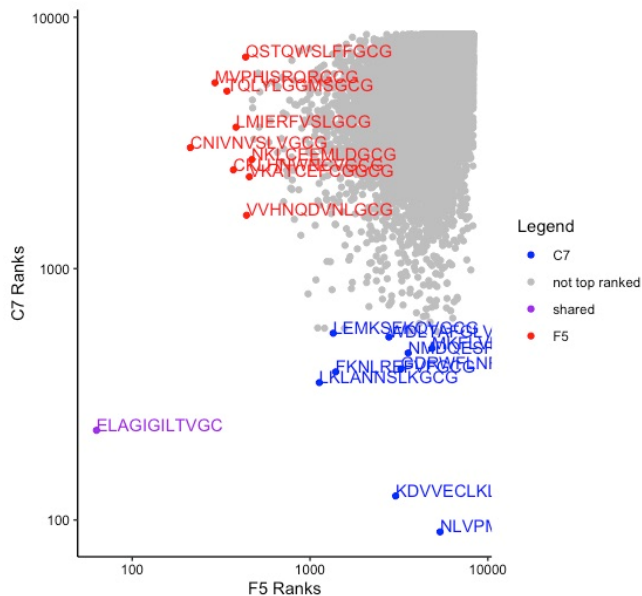


Using ranks increases resolution

Ex. Dataset 2: F5 v. C7 for average ranks and average reads



CV versus Mean plots account for both read values and variability between replicates



ELAGIGILTVGC
 NLVPMVATVGG
 GDRWFLNRFGG
 MKFLVFLIGGG
 NMDQESFGGGG
 LEMKSEKQVGG
 WDLTAFGLVGG
 KDVVECKLGG
 LKLANNSLKGG
 FKNLREFVGG

