

(A)

Sub-Motif Clustering

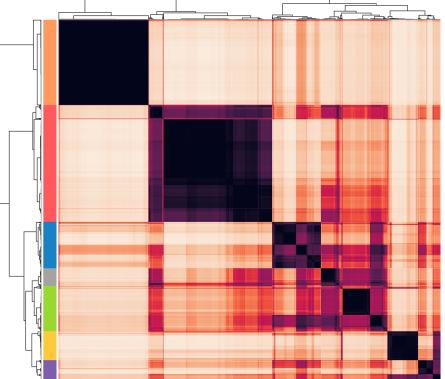
Hyper-Motifs

Allele Signatures

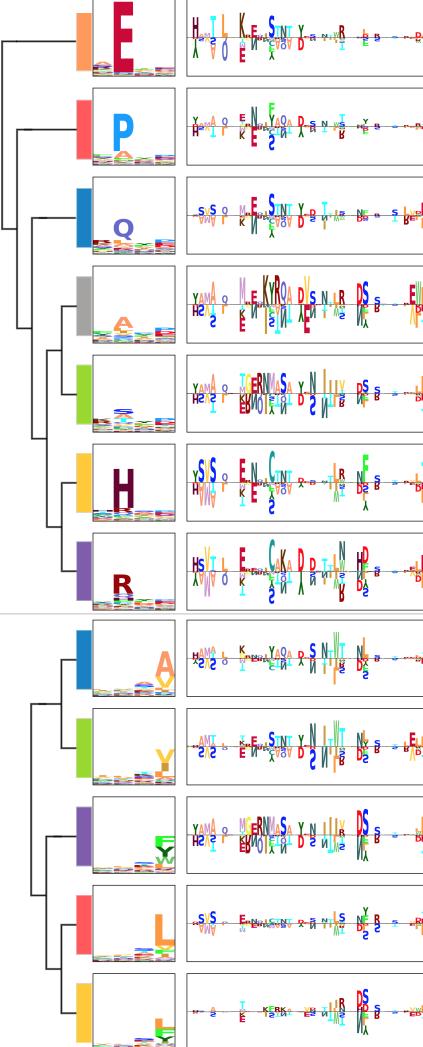
of Alleles

Major HLA Groups

N-side



Hyper-Motifs



C-side

