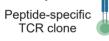


Peptide mutational scan for TCR activation



mutants

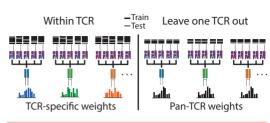




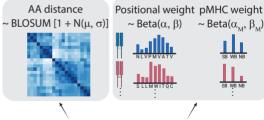
Normalized TCR activation

weak strong

Hierarchical Bayesian model of BATMAN



Predicted TCR activation ~ AA distance X Positional weight + pMHC weight



Hyperparameters μ , σ , α , β , α_M , β_M

TCR activation database —



