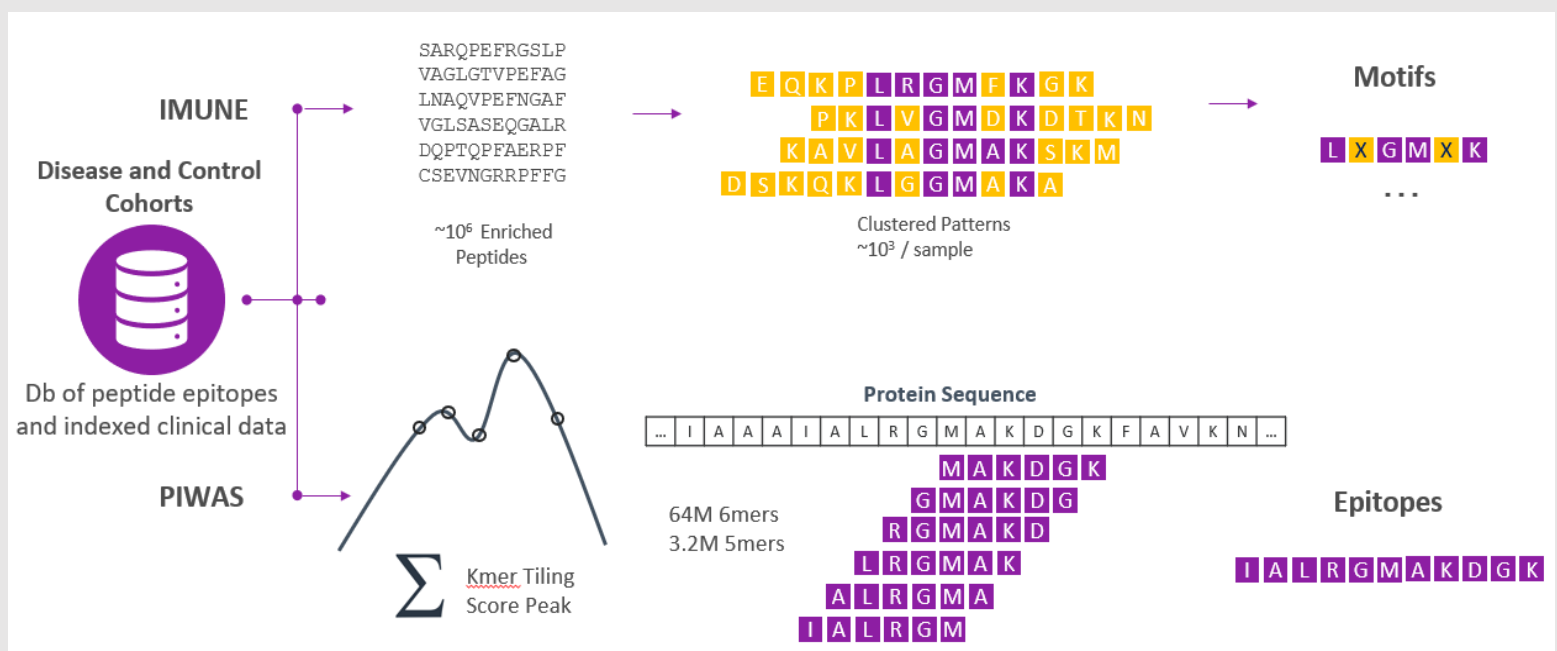


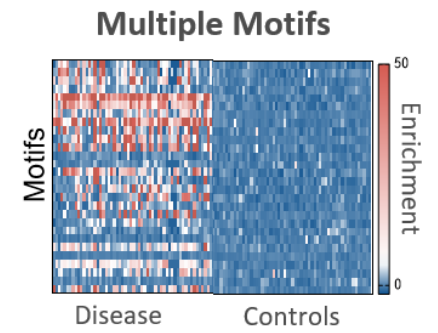
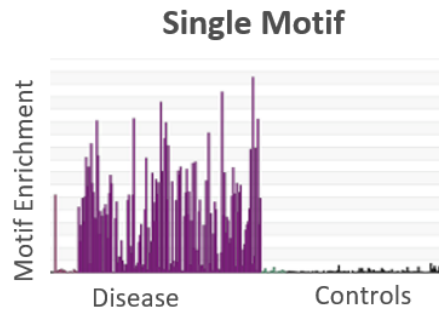
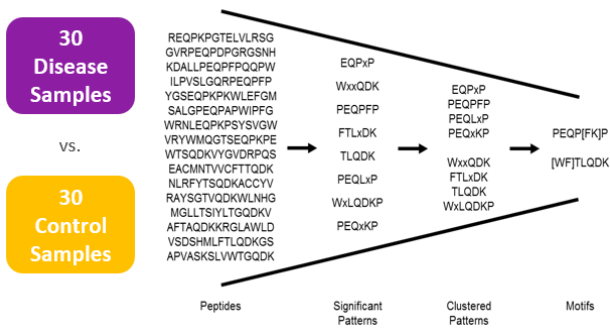
# IMMUNITY MAPPING AND PROFILING

Complementary bioinformatics methods identify motifs and epitopes associated with disease



# IMUNE

Discovers epitopes that are highly specific to a condition and identifies residues important for antibody binding.



428 pattern searches to identify hundreds of enriched motifs

Motif down-selection using the entire database to improve specificity

Motifs are compiled into panels and tested to determine the combination that yields maximal sensitivity and specificity

Individuals are positive for subsets of motifs

# PIWAS

Identifies antigens in an unbiased manner that have outlier signals that are stronger and more prevalent in disease cohorts relative to controls.

