S2 Table.

Similarity evaluation
INPUT: a dataset, D, with A features (autoantigens) and N instances (n_{AIH}=*15* and n_{HD}=*78* measurements). R is the number of reduced subsets
For each run *i*, *i=1,2,.....R* (1) randomly partition data into reduced subsets D_i including all positive instances (n_{AIH}=*15*) and a set of negative instances ($\tilde{n}_{HD}$=*24*) (2) perform feature selection *(i)* train y classifiers (*y=2*) with a *10 fold cross-validation* on the reduced subset *(ii)* obtain a ranked list L_{iy} End Finally, calculate all pairwise similarity comparison (R(R-1))/2 possible comparisons) and averaged them to obtain an overall evaluation of the degree of similarity, *S*, between the autoantigen lists
OUTPUT: similarity index S_{tot} for each considered classifier