Antigen PDB file

Find surface residues and create a residue surface graph

Mimotopes

Search each mimotope to the graph by using the ACO algorithm

P-value calculation for each of the matched paths

Select the result paths from the matched path set

Create a weighted graph of the result paths

Cluster the result paths by using the DFS algorithm

Epitope candidates

Motif

Map the motif on to the graph by using the ACO algorithm

Select the top scoring paths

Epitope candidates