METHOD AND SYSTEM FOR PREDICTION OF ALLERGENICITY OF PROTEINS USING MOTIF TABLE

ABSTRACT

The present invention provides a method of prediction of the allergenicity of a query protein. The method comprises the steps of providing a set of amino acid sequences of known allergens, identifying a pre-set number of motifs from the amino acid sequences of known allergens, constructing a motif table of the identified motifs, searching for any identified motifs within the query protein, and predicting that the query protein is an allergen if the query protein contains at least one positive match with the motif table. The present invention also provides a motif table for being used to predict allergenicity of a query protein. The present invention further provides an article of manufacture comprising: at least one computer usable medium having computer readable program code means embodied therein for predicting allergenicity of a query protein.

FIG 1