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Title (English)

Peptide filtration – a computational method for identification of unique protein motifs in allergens

Title (Swedish)

Abstract

A bioinformatics method for the assessment of allergenicity when introducing new proteins with genetically modified organisms was developed. Prediction was based on similarity to allergen-specific protein motifs that were discovered with a developed algorithm called Peptide filtration. Classification performance was compared with current assessment methods recommended by the FAO/WHO and it was found to be notably more accurate. Attempts were made to identify some protein motifs with implications in allergenic responses, but the results were not conclusive.

Keywords

Allergy, Atopy, Allergen, GMO, Bioinformatics, Protein motifs

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