



Allergenomics Services Section Front Page

A rapid and comprehensive analysis of putative proteinous allergens that is allergenome by applying such a proteomic strategy has been termed to allergenomics. In this detection and assign the putative allergens proteins specifically interacting with IgE antibodies in a patient's blood in a short time, but also analyze the quantitative and qualitative change of the antigens, depending on the surroundings and environmental conditions of an allergenic causative. With current allergenomic methods, comprehensive identification of putative allergens by a standard database search is difficult if the protein or DNA sequences from the corresponding allergenic causative are not fully registered in the databases. Designing of oligonucleotide probes with a help of the revealed partial sequences in order to determine the total sequence of the IgE-interactive protein in question through the cloning of its cDNA. It is also important to mention that the actual allergenicity of an identified allergen candidate should be confirmed by other techniques such as a skin prick test or a histamine release test, as the IgE-binding activity of a protein is not necessarily equal to its symptom-eliciting ability.