



Allergy Bioinformatics [

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Springer

Medicine

Molecular biology

Bioinformatics

Biomedicine

Molecular

Medicine

Bioinformatics

Monografía

The book introduces the bioinformatics resources and tools available for the study of allergenicity. Allergy symptoms affect more than 25% of the population in industrialized countries. At the same time, biotechnology is a rapidly developing field, which often involves the introduction of potentially allergenic novel proteins into drugs or foods. It is essential to avoid transferring a gene that encodes a major allergenic protein (from any source) into a drug/food crop that did not previously contain that protein. Accurately distinguishing candidate genes from allergens before transferring them into a drug or food would aid preventive efforts to curb the rising incidence of allergies. Several public databases have been created in response to increasing allergen data. The resources provided by these databases have paved the way for the creation of specialized bioinformatics tools that allow allergenicity to be predicted. The book is a useful resource for biologists and biomedical informatics scientists, as well as clinicians. Dr. Ailin Tao is the chief of Guangdong Province Key Laboratory of Allergy & Clinical Immunology, Principal Investigator of the State Key Laboratory of Respiratory Disease, the Second Affiliated Hospital of Guangzhou Medical University; Dr. Prof. Eyal Raz is a Professor of Medicine at University of California, San Diego, La Jolla, California, USA. They collaborate very well on allergy research and this book editing

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Contenido: Allergic Disease Epidemiology -- The Pathogenesis of Allergy: A Brief Introduction -- Genetics and Epigenetic Regulation in Allergic Diseases -- Cross-Reactivity -- From Allergen Extracts to Allergen Genes and Allergen Molecules -- Allergen Gene Cloning -- High Throughput Screening of Allergy -- Surrogate Markers for Allergen-Specific Immunotherapy -- Immune Responses to Allergens in Atopic Disease: Considerations for

Bioinformatics -- Antigenicity, Immunogenicity and Allergenicity -- Bioinformatic Classifiers for Allergen Sequence Discrimination -- Strategies for the Modification and Evaluation of Allergenicity -- Bioinformatics Methods to Predict Allergen Epitopes -- Allergen Database

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