



Deciphering Allergies—Structural and Immunological Characterization of Allergenic Proteins and Immunomodulatory Agents

Guest Editors:

Prof. Dr. Marija Gavrović-Jankulović

Department of Biochemistry,
Faculty of Chemistry, University
of Belgrade, 11158 Belgrade,
Serbia

Dr. Danijela Apostolović

Immunology and Allergy Division,
Department of Medicine Solna,
Karolinska Institutet, Stockholm,
Sweden

Message from the Guest Editors

Allergies are one of today's most common immune disorders; this is mostly because of an exaggerated immunoglobulin E-mediated immune response to harmless environmental allergens. The main translational goal to study allergies is to understand immune mechanisms, improve diagnosis, find a better and reliable immunotherapy, and manage the disease. Other factors, such as exposomes (parasites, ticks, drugs, heavy metals, plastic, and other contaminants) represent novel elements that act as important immunomodulatory agents in the allergic diseases and should be further investigated.

Potential topics include but are not limited to:

- Allergens: new and old epitopes enrolled in IgE binding and allergenicity;
- In silico discovery of allergens and prediction of allergenicity and allergic cross-reactivity;
- Allergenicity prediction of novel foods;
- Modulation of immune response by designed allergenic proteins;
- Allergen structure interplay with the innate immunity;
- Parasites and vectors as allergen transmitters;
- Effects of environmental pollutants on allergenicity;
- Effects of micro- and nano-plastics on protein allergenicity.

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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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