

Special Issue

Immune Response to Allergens

Message from the Guest Editor

Allergy is one of the most common chronic conditions with dramatically increasing prevalence worldwide (varies between 10% and 40% of the population), caused by an imbalance of the immune response. The immune system is substantial for maintaining homeostasis and normally plays a specific role in defending organisms against diverse antigens. However, some biomolecules may act as allergens, overstimulate the immune system, and induce inflammatory reactions. The manifestation of these allergen-induced reactions may cause a variety of clinical symptoms, from allergic rhinitis, asthma, food allergy, etc., to a systemic, life-threatening allergic reaction—anaphylaxis. This is why discovering the exact protein that may lead to allergy and a detailed understanding of specific allergen-induced immune responses are crucial for the development of novel diagnostic and personalized treatment modalities. In this Special Issue of *Biomolecules*, original research and/or review articles that describe immune mechanisms caused by allergens, the newest diagnostic tools, and allergen-based approaches of immunomodulation are welcome.

Guest Editor

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Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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