

Special Issue

The Immune System and Allergies

Message from the Guest Editor

This Special Issue explores the intricate relationship between the immune system and allergic reactions, shedding light on the underlying mechanisms, diagnostic tools, and therapeutic interventions. We invite submissions of original research articles and reviews that contribute to our understanding of immune responses and allergies, including, but not limited to, the following:

- Mechanisms of allergic responses;
- Novel advances in immune system pathophysiology;
- Allergen identification and characterization;
- Immune modulation in allergies or inflammatory disorders;
- Genetic and environmental influences;
- Novel therapeutic targets;
- Clinical management and prevention.

We aim to provide a comprehensive overview of recent advancements in the fields of allergies and immune system interactions, with the ultimate goal of advancing our ability to diagnose, treat, and prevent allergic and immune disorders. Researchers and clinicians from diverse backgrounds are encouraged to contribute their insights and findings to this timely and important Special Issue.

Guest Editor

Dr. Marco Casciaro

Department of Clinical and Experimental Medicine, Unit and School of Allergy and Clinical Immunology, University of Messina, 98125 Messina, Italy

Deadline for manuscript submissions

31 January 2026



Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/205430

Biomolecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomolecules@mdpi.com

[mdpi.com/journal/
biomolecules](https://mdpi.com/journal/biomolecules)





Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



[mdpi.com/journal/
biomolecules](https://mdpi.com/journal/biomolecules)



About the Journal

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.

Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

Author Benefits

Open Access

— free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Biochemistry)