

## Special Issue

# Molecular and Cellular Mechanisms of Aortic Diseases: From Biomarkers to Therapeutic Strategies

### Message from the Guest Editor

Aortic diseases encompass a broad spectrum of acute and chronic conditions, ranging from life-threatening emergencies to pathologies requiring long-term conservative management. This Special Issue focuses on the biological complexity of conditions such as thoracic and abdominal aortic aneurysms, acute aortic syndromes (including dissection, intramural hematoma and penetrating atherosclerotic ulcers), traumatic injuries and inflammatory or genetic disorders like Marfan syndrome and congenital abnormalities. We are specifically seeking papers that explore the molecular and cellular shifts driving the pathogenesis and progression of these diseases. Our goal is to bridge the gap between basic science and clinical application by identifying:

- Novel diagnostic and prognostic biomarkers for earlier detection and risk stratification.
- Innovative targeted therapies designed to modulate disease progression.
- Advanced insights into pathogenetic mechanisms that support a more personalized therapeutic approach.

By consolidating the latest findings in the field, we aim to provide a comprehensive overview of how molecular insights can be translated into better patient outcomes.

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### Guest Editor

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### Deadline for manuscript submissions

31 October 2026



## Biomolecules

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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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### Editors-in-Chief

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