

Special Issue

The Molecular Mechanisms of Chronic Inflammation Occurrence and Development

Message from the Guest Editor

Our Special Issue focuses on unraveling the molecular and cellular interplay between chronic inflammation and cardiovascular pathogenesis. We aim to address pivotal questions: how do persistent inflammatory stimuli reprogram immune and stromal cells in the vasculature? What mechanisms sustain unresolved inflammation in conditions like atherosclerosis or post-infarction remodeling? How do epigenetic modifications, non-coding RNA modulate inflammatory cascades in the heart and blood vessels? Answering these questions is essential for developing targeted strategies to halt or reverse inflammation-driven CVDs. Potential topics include the following:

- Inflammatory pathways in cardiovascular pathogenesis.
- Explore translational and therapeutic innovations related to inflammation (e.g., novel biomarkers of vascular inflammation, nanomedicine for targeted delivery agents).
- Interactions between macrophages, T cells, neutrophils, and vascular cells.
- Epigenetic regulation (e.g., DNA methylation, histone acetylation) and non-coding RNAs (e.g., miRNAs, lncRNAs) in sustaining vascular inflammation.

Guest Editor

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Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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