

## 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.

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### Guest Editor

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### Deadline for manuscript submissions

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## Biology

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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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