

Special Issue

Molecular Mechanisms and Innovative Therapeutic Approaches in Inflammatory Diseases, Pioneering Precision Medicine Solutions

Message from the Guest Editors

Inflammatory diseases, ranging from autoimmune disorders to chronic inflammatory conditions, pose significant challenges to global health. The complexity of inflammation involves intricate molecular pathways, including immune system dysregulation, cytokine signaling, and oxidative stress, which vary among individuals and disease states. Advances in molecular biology and precision medicine are unlocking new insights into these mechanisms, offering the potential for highly targeted and effective therapies. This Special Issue aims to delve into the molecular mechanisms that drive inflammatory diseases, with a focus on identifying novel therapeutic targets and pathways. By exploring innovative therapeutic approaches—such as biologics, small molecules, gene therapies, and personalized treatment regimens—this Special Issue will shed light on the future of inflammation treatment through precision medicine. We invite submissions that provide groundbreaking research, clinical studies, and reviews on molecular drivers of inflammation, disease biomarkers, and personalized therapeutic strategies that hold the potential to transform patient outcomes in inflammatory diseases.

Guest Editors

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Deadline for manuscript submissions

closed (31 October 2025)



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Message from the Editor-in-Chief

Editor-in-Chief

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

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).

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