

Special Issue

Interplay Between Coagulation and Inflammation: Molecular Mechanisms, Clinical Implications, and Therapeutic Strategies

Message from the Guest Editor

The common factor underlying many illnesses affecting the cardiovascular system is the interaction between inflammation and coagulation. In a diseased state, the body's response to infection or injury leads to the activation of the coagulation and inflammation cascade, commonly referred to as immunothrombosis. However, excessive and unregulated immunothrombosis responses cause catastrophic damage that compromises organ functions, also known as thromboinflammation. Thromboinflammation is especially relevant to COVID-19 since the virus causes enhanced inflammation and coagulation responses. The natural anticoagulants such as thrombomodulin, anti-thrombin, and activated protein C facilitate the neutralization of some inflammatory mediators and increase the endothelial barrier function. Hence, the downregulation of anticoagulant pathways not only promotes thrombosis but also amplifies the inflammatory process. Understanding this interplay promises new insights for clinical diagnostics and therapies.

We welcome original research articles, reviews, or shorter perspective articles on all aspects related to the coagulation and inflammation processes.

Guest Editor

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Deadline for manuscript submissions

closed (20 June 2025)



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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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