

Special Issue

Role of Platelet in Inflammation, Infection, and Immune Response

Message from the Guest Editor

Platelets, historically known for their role in hemostasis and clot formation, additionally play a vital role in inflammation, infection, and immune responses. They actively contribute to the body's protection mechanisms by means of interacting with immune cells and pathogens. In inflammation, platelets release proinflammatory mediators such as cytokines, chemokines, and growth factors, which recruit immune cells like neutrophils and monocytes to the site of injury or infection. Thrombocytes recognize pathogens via Toll-like receptors during infections and might directly bind to bacteria, viruses, and fungi. They facilitate the engulfment of pathogens in platelet-leukocyte aggregates and consequently enhance their clearance. Furthermore, platelets interact with both innate and adaptive immune systems. They influence T-cell responses by supporting dendritic cell maturation and antigen presentation. However, excessive platelet activation can contribute to chronic inflammation and autoimmune disorders. Understanding platelet involvement in immunity provides insights into new therapeutic approaches for inflammatory and infectious diseases.

Guest Editor

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