

## 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

Dr. Amir Houshang Shemirani

Division of Clinical Laboratory Science, Department of Laboratory Medicine, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

### Deadline for manuscript submissions

22 May 2026



## Journal of Clinical Medicine

an Open Access Journal  
by MDPI

Impact Factor 2.9  
CiteScore 5.2  
Indexed in PubMed



[mdpi.com/si/233375](https://mdpi.com/si/233375)

*Journal of Clinical Medicine*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[jcm@mdpi.com](mailto:jcm@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[jcm](https://jcm)





# Journal of Clinical Medicine

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.9  
CiteScore 5.2  
Indexed in PubMed



[mdpi.com/journal/](https://mdpi.com/journal/jcm)

[jcm](https://mdpi.com/journal/jcm)



## About the Journal

### Message from the Editorial Board

There has been an explosion of gene and target based research and therapeutics in the multitude of fields that compose clinical medicine. The *Journal of Clinical Medicine's* (JCM) staff and editorial board are dedicated to providing cutting edge, timely, and peer-reviewed articles covering the diverse subspecialties of clinical medicine. The journal publishes concise, innovative, and exciting research articles as well as clinically significant articles and reviews that are pertinent to the myriad of disciplines within medicine. The articles published are relevant to both primary care physicians and specialists. The journal's full-texts are archived in PubMed Central and indexed in PubMed. Please consider submitting your manuscripts for publication to our journal and check us out on-line!

---

### Editors-in-Chief

Prof. Dr. Emmanuel Andr  s

Internal Medicine Department, University Hospital Strasbourg, 67081  
Strasbourg, France

Prof. Dr. Kent Doi

Department of Emergency and Critical Care Medicine, The University of  
Tokyo, Tokyo, Japan

---

### Author Benefits

#### High Visibility:

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

#### Journal Rank:

JCR - Q1 (Medicine, General and Internal) / CiteScore - Q1 (General Medicine)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.5 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).