

Special Issue

New Discoveries in Biological Functions of Platelet

Message from the Guest Editors

Platelets are small, disc-shaped blood cells that play a vital role in hemostasis, or the prevention of bleeding after vessel injury. Although platelets have long been known to be involved in thrombosis, recent research has revealed new biological functions of these cells in other pathological complications, such as sepsis, diabetes, fibrosis, myocardial infarction, vasculitis, and cancer metastasis. Platelets have been found to interact with immune cells, such as neutrophils and lymphocytes, and modulate their effector functions. Platelets also play a role in different steps of tumor progression. They directly interact with cancer cells, promoting their survival and transmigration through the endothelium, leading to tumor metastasis. Platelets contribute to the formation of the pre-metastatic niche by promoting the recruitment and activation of immune cells and by releasing cytokines and growth factors that support angiogenesis and tumor cell survival. Recent research has revealed important insights into the complex interplay between platelets, immune and cancer cells, leading to new discoveries of platelets in cancer-associated thrombosis and thrombo-inflammation.

Guest Editors

Dr. Attila Braun

Walther-Straub-Institute for Pharmacology and Toxicology, Ludwig-Maximilian-University, 80336 Munich, Germany

Dr. Elmina Mammadova-Bach

Walther-Straub-Institute for Pharmacology and Toxicology, Ludwig-Maximilian-University, 80336 Munich, Germany

Deadline for manuscript submissions

closed (30 April 2024)



Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.4
Indexed in PubMed



mdpi.com/si/171185

Biomolecules
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomolecules@mdpi.com

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





Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.4
Indexed in PubMed



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



About the Journal

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

Author Benefits

Open Access

– free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

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

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Biochemistry)