

Special Issue

Metabolic and Signal Transduction Pathways Controlling Platelet and Megakaryocyte Activity

Message from the Guest Editors

Platelets, progeny of megakaryocytes, are established essential mediators of effective hemostasis and pathological thrombosis. Extensive available research details regulatory pathways that control platelet activation, but there are gaps in our knowledge of how distinct molecules render specificity to diverse platelet functions despite participation of largely overlapping signaling pathways. Furthermore, considerably less focus has been placed on unraveling the platelet metabolic pathways providing cellular bioenergetics including glucose and fatty acid metabolism, as well as autophagy for molecular recycling, and transporter systems that control exchange of solutes across membranes and play an important role in cellular access by drugs. In this Special Issue, we welcome research and review that explore the specificity of platelet activation in hemostasis versus thrombosis, or how metabolic and transporter systems may control megakaryocyte and platelet function. In particular, what is the impact of these systems on classic hemostatic and thrombotic functions and additionally on the recently identified roles for platelets in immune function, aging, cancer and organ pathology?

Guest Editors

Dr. Ana Kasirer-Friede

Department of Medicine, University of California, San Diego, CA, USA

Dr. Deepa Gautam

Department of Medicine, Division of Hematology, Brigham and Women's Hospital, Harvard Medical School 75 Francis St., Boston, MA 02115, USA

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

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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.

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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

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