Special Issue

Biogenesis and Functions of Blood Platelets

Message from the Guest Editor

Blood platelets are anucleated elements. With a diameter of 2 to 3 µm, they are the smallest blood cells. They arise from the fragmentation of their precursors, the megakaryocytes (MKs), cells formed in the bone marrow from hematopoietic stem cells, which proliferate and differentiate on contact with the hematopoietic niche (mesenchymal stem cells, endothelial cells, adipocytes, etc.). When in contact with sinusoid vessels, MKs that have reached maturity emit long cytoplasmic extensions, the proplatelets: in the lumen of the vessel and under the force of the blood flow, these proplatelets eventually release platelets. While platelets are mainly involved in stopping bleeding, they are also involved in other functions, such as inflammation, tumorigenesis and immunology. The blood platelets, their biogenesis and their functions will be the focus of this Special Issue, which will provide an overview of the future directions in experimental medicine being pursued in this field of research.

Guest Editor

Dr. Catherine Strassel

Université de Strasbourg, INSERM, EFS Grand Est, BPPS UMR-S 1255, FMTS, Strasbourg, France

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

mdpi.com/journal/biomedicines

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Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to Biomedicines, be it original research, review articles, or developing Special Issues of current key topics.

Editor-in-Chief

Prof. Dr. Felipe Fregni
1. Neuromodulation Center and Center for Clinical Research Learning, Spaulding Rehabilitation Hospital and Massachusetts General Hospital, Harvard Medical School, Boston, MA 02114, USA
2. Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA 02115, USA

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