



Biogenesis and Functions of Blood Platelets

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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.





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Message from the Editor-in-Chief

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