Special Issue

Molecular Pathogenesis and Cellular-Based Therapies for Thrombocytopenia

Message from the Guest Editors

Thrombocytopenia is a life-threatening hemostatic disorder with multiple etiologies linked to genetic, environmental or drug-associated factors. In thrombocytopenic patients, low platelet counts are associated with critical bleeding or thromboembolism and predict risk for morbidity and mortality. Significant advances in characterizing cellular and molecular mechanisms involved in the development and refractoriness to treatment in auto- and allo-thrombocytopenia have been achieved. Furthermore, relevant technical advances in cell production and storage have been achieved, and innovative cell therapies have been developed, including the generation of bioengineered platelets. These new developments may constitute an alternative strategy to the transfusion of donor platelets for the management of thrombocytopenic patients. This Special Issue brings together original research and reviews elucidating molecular mechanisms involved in the pathophysiology of thrombocytopenia, molecular and cellular events of thrombosis, hemostasis maintenance and immune response regulation, as well as newly developed drug-, cell- and gene-based therapeutic strategies for the treatment of thrombocytopenia.

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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