

Special Issue

New Concepts in Platelet Activation and Thrombus Formation

Message from the Guest Editor

Platelets are the principal cellular determinants for both haemostasis following vascular injury, and for pathogenic thrombosis during adverse cardiovascular events. Platelet activation is regulated by engagement of receptors such as GpIb-V-IX, GpVI, CLEC-2, and integrin α IIb β 3 with cognate ligands, leading to intracellular signalling. Subsequent signalling via soluble platelet activators, including thrombin, ADP, and thromboxane, further contributes to activator processes. Recently, there has been growing interest in non-canonical regulators of platelet activation, such as chemokines, zinc, bacteria, and pathogen-associated molecular patterns (PAMPs). This Special Issue focusses on recent studies that address the characterisation of new and established platelet activation mechanisms. It will present insights into exogenous stimuli that initiate platelet thrombus formation and will therefore highlight areas for new research directions that will influence the design of novel anti-thrombotics.

Guest Editor

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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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