

## 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  $\alpha$ IIb $\beta$ 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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### Deadline for manuscript submissions

closed (20 October 2024)



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