Special Issue

Genetic, Functional and Therapeutic Aspects of Procoagulant and Anticoagulant Factors

Message from the Guest Editors

Normal hemostasis is highly dependent on the balance between procoagulant systems (e.g. platelets, procoagulant factors) and anticoagulant systems (e.g. protein C, protein S, antithrombin). Lack or dysfunction of a major procoagulant factor results in a bleeding disorder (e.g. factor VIII deficiency leading to hemophilia A), whereas a defect in an essential anticoagulant system (e.g. protein C deficiency) leads to a thrombotic disorder. Beyond their function in hemostasis, cell signaling pathways which are induced by procoagulant (e.g thrombin, FVII) and anticoagulant factors (e.g APC), mediated by specific receptors, have become the focus of increasing attention, with some of them being explored as promising therapeutic targets. This special issue will focus on genetic, functional and therapeutic aspects of procoagulant and anticoagulant systems. We invite research studies and reviews on genetics of bleeding and thrombotic disorders, functional and therapeutic studies of procoagulant and anticoagulant factors, as well as studies exploring their involvement in the crosstalk between hemostasis and inflammation.

Guest Editors

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