



## The Role of Antithrombin in Blood Disorders

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### Message from the Guest Editor

Dear Colleagues,

Antithrombin (AT) is a member of the serine protease inhibitor (serpin) superfamily and is the most significant inhibitor of blood coagulation proteases. AT has two isoforms that differ only in their extent of glycosylation, where the less glycosylated form has a higher affinity for heparin. AT–heparin and AT–serine protease interactions have been extensively studied via in silico experiments. AT is encoded by SERPINC1 and hereditary AT deficiency is the most severe thrombophilia. There are still several open questions concerning the management of AT deficient patients, eg., the application of NOAC, the administration of AT concentrate, etc. The small interfering RNA, which reduces AT synthesis in hepatocytes, is considered to be one of the most promising “rebalancing” agents in the therapy of haemophilia. Moreover, AT may also play a role in other diseases.

This Special Issue focuses on AT deficiency, including hereditary and acquired, and all aspects of the role of AT in various diseases. Papers related to biochemistry, molecular biology, and laboratory aspects of AT are considered for this Special Issue.





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