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Tissue factor as a mediator of coagulation and signaling in cancer and chronic inflammation

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Abstract

Thrombosis is frequently diagnosed as a first symptom in tumor patients and the clinical management of hypercoagulability in cancer patients remains challenging due to concomitant changes in risk factors for severe bleeding. It therefore remains a priority to better understand interactions of the hemostatic system with cancer biology. Specifically, further research is needed to elucidate the details and effects of new anticoagulants on extravascular coagulation and the interplay between cancer progression and chronic inflammation. In addition, it will be important to identify subgroups of cancer patients benefiting from specific modulations of the coagulation system without increasing the bleeding risk. Here, we review recent findings on tissue factor (TF) regulation, its procoagulant activity and TF signaling in the various cell types of the tumor microenvironment.

Keywords

Tissue factor; tumor microenvironment; coagulation; anticoagulants

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