



The Role of Platelets in Tumor Microenvironment

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Message from the Guest Editor

Over the last few decades, an increasing number of studies have reported on the role of platelets in the tumor microenvironment, independent of their well-established contributions to hemostasis and thrombosis. The relationship between platelets and tumor cells is bidirectional. Tumor cells can activate platelets and, conversely, platelets can influence tumor growth and metastasis. Platelets also promote tumor cells' intravasation and extravasation.

The mechanism by which platelets contribute to the tumor microenvironment is still under debate.

Preclinical and clinical research show that solid tumor growth is dependent on angiogenesis. It is now well established that platelets are involved in tumor-induced angiogenesis, and recent studies have also shown that they also participate in tumor vessel homeostasis. These observations raise the intriguing possibility that targeting platelets can destabilize the tumor vasculature and may improve the delivery of chemotherapeutic agents.

In this Special Issue, the role of platelets in tumor angiogenesis and in the maintenance of vascular integrity, as well as the role of platelets in chemotherapy resistance will be discussed.





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Message from the Editor-in-Chief

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