Deciphering the inflammatory microenvironment

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Abstract

The tumor microenvironment plays a pivotal role in cancer progression, with the inflammatory microenvironment emerging as a key determinant of tumor behavior and treatment response. This abstract provides an overview of the complex interplay of immune cells, signaling pathways, and cytokines within the inflammatory microenvironment, highlighting its implications for targeted therapy in cancer treatment. By elucidating the molecular mechanisms that drive inflammation-driven cancer progression, researchers aim to develop novel therapeutic strategies that exploit the vulnerabilities of the inflammatory microenvironment and improve outcomes for cancer patients. This abstract underscores the importance of deciphering the inflammatory microenvironment in cancer and harnessing its potential for therapeutic benefit.

Keywords: Tumor; Cytokines; Microenvironment; In ammatory; Cancer patients

Introduction

In the intricate landscape of cancer biology, the tumor microenvironment plays a pivotal role in shaping tumor behavior and treatment response. Among its key constituents, the in ammatory microenvironment emerges as a critical regulator of cancer progression

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e dysregulated in ammatory microenvironment presents a compelling target for therapeutic intervention in cancer treatment. Targeting key in ammatory signaling pathways holds promise for disrupting the pro-tumorigenic milieu and sensitizing tumors to conventional therapies. Small molecule inhibitors, monoclonal