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Sommario/riassunto

Cytokine and Chemokine Networks in Cancer" provides a comprehensive exploration of the roles of cytokines and chemokines in cancer biology. It offers valuable insights into their diagnostic, prognostic, and therapeutic implications, making it a valuable resource for researchers, clinicians, and students interested in the field of cancer immunology and therapy. This book illustrates the importance and significance of the cytokine and chemokine signaling networks in tumor development and progression. It describes the complex networks mediated by cytokine and chemokine receptors promoting tumor cell proliferation, site-directed metastasis, and activation of angiogenic switch in tumor cells. The books also shed light on the heterogeneity of cytokines and chemokine in solid malignancies and their impact on tumor progression and therapeutic outcomes. The chapters provide current information about the types of cytokine-chemokine interactions in promoting cancer stem cell-like characteristics, epithelial to mesenchymal transition, and modulation of the tumor microenvironment. The significance of the complex interactions in cancer biology in the light of therapeutic resistance is also highlighted. The chapters also describe recent advancements in the therapeutic potential of targeting the pro-tumor cytokine and chemokine networks and limiting tumor cell metastasis. Finally, the book also provides a comprehensive yet representative description of a large number of challenges associated with targeting these vital chemokine-cytokine networks. Given its content, the book provides valuable information for researchers in the field of cancer biology and molecular medicine.
