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Ganji Purnachandra Nagaraju (Ed.)

Phytochemicals Targeting Tumor Microenvironment in Gastrointestinal Cancers

- Focuses on the current broad range of treatment options and prospective treatments for GI cancers
- Provides an understanding of the roadblocks of chemotherapy for newly-diagnosed patients and patients with metastatic GI cancers
- Gives an overview on stroma, tumor microenvironment, stem cells, stellate cells, transcription factors, growth factors, and signaling pathways

Gastrointestinal (GI) malignancies account for a large portion of cancers worldwide. Although incidence of esophageal, gastric, and colorectal cancers has decreased in recent years, pancreatic and liver cancer have increased. The mainstay of GI cancer therapy is chemoradiation and surgery. Despite significant medical advancements, diagnosis and therapy for GI cancers remain challenging due to tumor cell resistance to chemoradiotherapy. The tumor's increased cell signalling due to excessive transcription factor activation and increased stellate cell activity leads to collagen deposition formation of a dense stroma around the tumor, which prevents drugs from reaching the malignant cells. This leads to tumor chemoresistance. To circumvent these difficulties, drug therapy targeting the tumor's specific microenvironment and the additive anticancer effect of phytochemicals can allow for more effective treatment. This volume will be the first on the market on the topic of phytochemicals and their effect on the tumor microenvironment (TME). TME is an emerging area of research and the book will be a welcome introductory addition to the field.

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