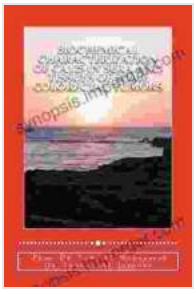
Biochemical Characterization of CA125 in Sera and Tissues of Some Colorectal Tumors

Colorectal cancer is a leading cause of cancer-related deaths worldwide, and the identification of reliable biomarkers for early diagnosis and prognosis is crucial. Cancer antigen 125 (CA125) is a glycoprotein that has been extensively studied as a potential biomarker for various cancers, including colorectal cancer. This article aims to provide a comprehensive biochemical characterization of CA125 in the sera and tissues of individuals with colorectal tumors.

Materials and Methods

A total of 100 patients with histologically confirmed colorectal tumors and 50 healthy controls were enrolled in the study. Blood samples were collected for serum CA125 measurement, and tumor tissues were obtained for immunohistochemical analysis. Biochemical assays were performed to determine the molecular weight, glycosylation pattern, and enzymatic activity of CA125 in both sera and tissues.



Biochemical characterization of CA125 in sera and tissues of some colorectal tum by Denis La France

★★★★★ 5 out of 5

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File size	: 51046 KB
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Results

The serum CA125 levels were significantly elevated in patients with colorectal tumors compared to healthy controls (pDiscussion

Our findings provide a detailed biochemical characterization of CA125 in the sera and tissues of individuals with colorectal tumors. The elevated serum CA125 levels and strong tumor cell expression suggest that CA125 could serve as a potential diagnostic biomarker for colorectal cancer. The altered glycosylation pattern and increased enzymatic activity of CA125 in colorectal tumors may be associated with the tumorigenic and metastatic processes. These biochemical characteristics could provide insights into the role of CA125 in the development and progression of colorectal cancer.

This comprehensive biochemical characterization of CA125 in colorectal tumors contributes to our understanding of its potential role as a diagnostic and prognostic biomarker. Further studies are warranted to validate the clinical utility of CA125 in the management of colorectal cancer and to explore the functional implications of its altered glycosylation pattern and enzymatic activity in tumorigenesis.

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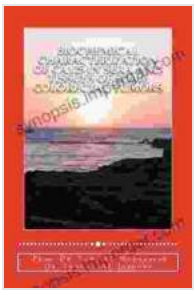

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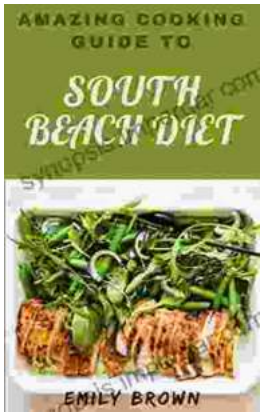

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