

Study of the use of tumor markers in gastrointestinal cancer

Abstract

The present study focuses on the role of cancer markers concerning gastrointestinal (GI) cancer. Tumor markers are biological molecules which are found at significant concentrations in the tissues and biological fluids of patients with cancer. The importance of tumor markers in the fields of GI solid tumor diagnosis, patient follow up and therapy are assessed by thoroughly reviewing relative literature. Moreover, the present study briefly reviews the basic cancer principles and its essential molecular pathways as well as the prime epidemiological, diagnostic and clinical features of GI solid tumors.

The final part of the project aims at presenting the most recent scientific data concerning the applications of cancer markers on nanomedicine and nanotechnology and more specifically on the latest techniques of bioimaging of cancer cells by nanotechnology methods and by the use of theragnostic nanotechnology agents.