



Causes of Cancer & Cancer Marker

Dr. Sudha Bansode

Shankarrao Mohite College, Akhuj Maharashtra State, India.

Abstract

Cancer is a disease of the cell. This rather simple statement implies an enormous complexity when attempting to identify efficacious anticancer agents. One of the major issues associated with anticancer research is that traditional target-directed strategies are confronted with the essentiality of the function of the target in healthy cells. Inevitably, targeting proteins that have essential functions are likely to lead to chemical entities with narrow therapeutic windows and significant toxic effects. An additional challenge is the unstable epigenetic and genetic status of cancer cells, undergoing multiple mutations, gene copy alterations, and chromosomal abnormalities that have a direct impact on the efficacy of anticancer agents at different stages of the disease. All these aspects make cancer drug discovery extremely difficult and have led to poor clinical approval success rates compared to other therapeutic areas.

Therefore, individualized therapy is paramount for improving of cancer treatment. The development of rationalized and individualized therapy is reliant on the identification of the specific biomarkers, validation of the biomarkers to identify the therapeutic targets, and drug development against the identified.

A Cancer marker or tumor marker is a biomarker found in blood, pee, or body tissues that can be raised by the proximity of at least one sorts of development. There are different tumor markers, each illustrative of a particular alignment. In addition to their use in cancer medicine, biomarkers are often used throughout the cancer drug discovery process. For instance, in the 1960s, researchers discovered the majority of patients with chronic myelogenous leukemia possessed a particular genetic abnormality.

Biography

Associate Professor in Zoology at Shankarro Mohite College, Maharashtra India. She is an active researcher and a passionate teacher. She is the own author of "Textbook Histological Techniques" and Outlines of Physiology. Published 35 Research Papers in various International Journals.

