

Biosensors - An Innovative Approach in Cancer Diagnosis

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ABSTRACT

Infectious diseases are emerging as the most devastating disease globally that serves a life threat in many developing countries. An alarming increase in various types of cancers and the associated fatalities remains a major threat to mankind. The main reason for cancer related deaths are due to late detection of the disease and many of them are diagnosed only after invasion of secondary symptoms throughout the body. Biosensors are emerging as a rapid advanced field, which helps in early detection and diagnosis of cancer. It detects a specific biological marker of affected cells and converts it to an electrical signal and analyzes it. It serves as a promising technology in early detection, diagnosis and monitoring of various types of cancer. This could improve the chances of early detection of cancer outbreaks and improves the treatment and prognosis of the affected patients. Biosensor technology holds vast potential in diagnosis by providing fast, accurate results and is also cost effective. This review article provides insight into the new era of biosensor technology which holds promising revolution in the early diagnosis and treatment of cancers.