

# 9<sup>th</sup> Indo Global Summit on **Cancer Therapy**

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## **Biosensors: A wonder device**

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Cancer is still one of the major causes of mortality throughout the world. Over 200 types of cancers have been currently identified because of recent developments in cancer diagnostic technologies. In spite of growing advancement in therapeutic aspects, death incidences are still rising where early detection of cancer being a major limitation. Currently, many cancers are diagnosed only after they have advanced to metastasis. Various cancer biomarkers have been reported to play an important role in clinical oncology in terms of diagnosis, treatment monitoring and prognostic marker. Biosensors have been highlighted by many researchers as a wonder device as it is quite simple and can identify a specific biological entity by converting it into an electrical signal that can be sensed and analyzed. Besides, it can also be designed to detect new emerging cancer biomarkers and detect the effectiveness of chemotherapeutic agents at its target site. Biosensor technology has the potential to provide highly sensitive & rapid diagnostic tool, for early detection of cancer, determine the effectiveness of anticancer drugs and monitoring prognosis. It will be briefly summarized about the recent advances of biosensor technology as a diagnostic tool taking into account the limitations as well as its future perspective.

## **Biography**

Suprava Patel has completed her MD, Biochemistry from Utkal University, Odisha and currently working as Assistant Professor, Department of Biochemistry, AIIMS, Raipur, Chattisgarh. Besides teaching and clinical laboratory management she has actively participated in research projects on infertility, breast cancer and sickle cell disease. She has published papers in national and international scientific journals. She is working as co-associate in stem cell project in Pt. J. N. Medical College, Raipur and has made lots of efforts in isolation of stem cells. She also worked in diagnostic karyotyping unit. She has also been appointed as thesis co-guide to MSc Medical Biotechnology students. She has been actively involved in organizing many national and international conferences, symposiums and workshops. She is the member of many scientific associations.

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