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Targeted Precision Therapy: The Evolving World of Genomics

The global socio-economic impact of cancers is profound. Worldwide, an estimated 19.3 million new cancer cases and almost 10.0 million cancer deaths occurred in 2020. There is increasing evidence that intra-tumor heterogeneity contributes to treatment failure and drug resistance. Multiple or serial biopsies are impractical for multiple reasons including but not limited to discomfort, health risks, and economic considerations. The clinical relevance and utility of molecular biomarker based tools are evident by their contribution to diagnosis, therapy selection and management and serial monitoring. Response of an individual to therapy may be evaluated on the basis of efficacy and safety.

The liquid biopsy solution can help in optimum therapy selection, acquired resistance detection, real-time molecular profiling of cancer. In patients with unavailability of tumor tissue for molecular profiling, liquid biopsy can provide the molecular footprints of cancer from blood. Current knowledge of genetic and metabolic signatures associated with the individual and the disease have led to significant advances in the concept of personalised therapy, and future advances in identification of biomarkers are expected to contribute positively. Limited evidence exists on treatment strategies for relapsed / refractory cancers based on comprehensive, multi-analyte molecular analysis with synchronous in vitro chemo-sensitivity profiling, in a label-agnostic manner. Treatment strategies for patients with such cancers can be based on an integrative, multi-analyte Encyclopedic Tumor Analysis (ETA) which captures in depth information about the multi-layered tumor interactome.

Keywords: refractory cancer, Tumor analysis, targeted therapy, Tumor chemosensitivity, Encyclopaedic Tumor analysis

Biography:

Dr. Vineet Datta brings over 20 years of global healthcare experience across clinical patient care, medical assistance, strategic leadership and healthcare consulting. He is a post-graduate in Internal Medicine from JN Medical College, AMU, India, and has held various leadership positions across the NHS, International SOS and Apollo Hospitals. He was awarded Diplomas for Membership to the Royal College of Physicians, United Kingdom (MRCP-UK) and the Royal College of Emergency Medicine (MRC EM), London. Vineet is an elected Fellow the Royal College of Physicians and Surgeons, Glasgow, and possesses the Advanced Pre-hospital Emergency Care Certification from the Royal College of Surgeons, Edinburgh. He currently also serves as the International Advisor to the Royal College of Physicians and Surgeons of Glasgow, in addition to his professional responsibilities.