Short Communication on Biomarker

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Bio Markers

Biomarkers used for drugs, or exactness drugs, area unit a region of a comparatively new clinical toolset. They are categorized in three primary ways that in line with their clinical applications. They are classified as molecular biomarkers, cellular biomarkers, or imaging biomarkers. All three kinds of biomarkers have a clinical role in narrowing or guiding treatment selections and follow a sub-categorization of being either prophetic, prognostic, or diagnostic.

Current research trends

Biomarkers for exactness drugs area unit a region of a comparatively new clinical toolset, within the case of pathological process large intestine cancer (mCRC) solely 2 prophetic biomarkers have up to now been known and enforced clinically, during this case, the shortage of knowledge on the far side retrospective studies and fortunate biomarker-driven approaches was instructed to be principal cause behind a desire for novel biomarker studies inside the medical field thanks to the severe attrition that accompanies clinical trials.

The field of biomarker analysis is additionally increasing to incorporate a combinatorial approach to distinctive biomarkers from multi-omic sources. Combining teams of biomarkers from varied omic knowledge permits for the chance of developing panels that value treatment response supported several biomarkers at one time. One such space of increasing analysis in multi-omic biomarkers is mitochondrial polymer sequencing. Mutations in mitochondrial polymer are shown to correlate to risk, progression, and treatment response of head and neck epithelial cell malignant neoplastic disease, during this example, a comparatively low price sequencing pipeline was shown to be able to notice low frequency mutations inside tumor-associated cells. This highlights the overall exposure capability of mitochondrial DNA-based biomarkers in capturing nonuniformity amongst people.