

A Short Note on Biological Biomarker **Preethi Kodali***

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Abstract

A biomarker, or biological marker may be a measurable indicator of some biological state or condition. Biomarkers area unit usually measured and evaluated to look at traditional biological processes, unhealthful processes, or pharmacological responses to a therapeutic intervention. Biomarkers area unit utilized in several scientific fields.

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.

Keywords: Biological state; Pharmacological; Cellular biomarkers; Prognostic; Prophetic

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Bio Markers

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The widespread use of the term "biomarker" dates to as early as 1980. The manner within which the surroundings was monitored and studied close to the tip of the Eighties was still principally dependent on the study of chemical substances that were thought of dangerous or cyanogenic once found in moderate concentrations in water, sediments, and aquatic organisms. The ways want to establish these chemical compounds were action, spectrophotometry, chemistry, and chemical science, though these ways were fortunate in elucidating the chemical makeup and concentrations gift within the surroundings of the contaminants and also the compounds in question, the tests failed to give knowledge that was informative on the impact of a definite waste material or chemical on a living organism or system, it absolutely was planned that characterizing biomarkers may produce a warning system to see in on the successfulness of a population or associate degree system before a waste material or compound may play mayhem on the system. Now, thanks to the event of biomarker studies, biomarkers will be used and

applied within the fields of human drugs and within the detection of diseases.

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.