

Special Issue

Genetic and Genomic Biomarkers in Cancer Diagnosis, Prognosis, and Treatment Prediction

Message from the Guest Editor

Advances in cancer genetics and genomics are expanding the opportunities for utilizing genetic and genomic biomarkers in cancer diagnosis, prognosis, and treatment prediction. Cancer genetic and genomic tests typically analyze nucleic acid-based biomarkers and can be categorized based on their clinical applications: diagnostic, prognostic, and predictive. Diagnostic tests are used for cancer screening, diagnosis, subtyping, and staging. Prognostic tests provide insights into the natural progression of cancer and potential outcomes. In contrast, predictive tests offer information about how likely a patient is to respond to a specific drug or therapy. Importantly, a single genetic or genomic test may serve multiple purposes depending on the clinical context. The role of these tests in clinical management is expected to grow continuously. This approach enhances the accuracy of diagnoses, spares patients from ineffective treatments, and minimizes side effects, ultimately leading to more personalized and precise cancer management.

Guest Editor

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