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 medical applications: diagnostic, prognostic, and predictive. Cancer 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, genetic and genomic test is expected to have an ever-increasing impact on oncology. For instance, biomarkers can help select patients who are likely to benefit from targeted therapies, monitor treatment resistance, assess recurrence risk, and identify pharmacogenetic risks for adverse drug reactions. I encourage basic and pre-clinical researchers to present original research articles and reviews, emphasizing the current mechanisms and preclinical advancement of laboratory genetics and genomics in oncology.

Guest Editor

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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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