Special Issue

Next-Generation Sequencing Technologies in Solid Tumor

Message from the Guest Editor

The application of next-generation sequencing (NGS) technologies in investigations of solid tumors has allowed us to obtain the maximum genomic evaluation of the tumor. Furthermore, the application of NGS technologies on the genome/exome of affected subjects and with a positive family history of cancer has allowed the identification of a large number of genes responsible for familial/hereditary forms of cancer. NGS approaches involve DNA and RNA analysis. DNA sequencing deals with revealing nucleotide variants on a selection of genes of interest for a specific tumor area. RNA sequencing allows detection of alternative genetic transcripts, post-transcriptional modifications, gene fusion, single nucleotide mutations/polymorphisms, small and long non-coding RNAs, and changes in gene expression. Most of the applications are in the field of cancer research, but NGS technology is also widely used in molecular diagnostics. In this Special Issue, we would like to collect recent diagnostic/predictive clinical findings obtained from NGS applications to various solid tumors and on the genome/germinal exome of subjects affected by familial/hereditary cancers.

Guest Editor

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Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to Biomedicines, be it original research, review articles, or developing Special Issues of current key topics.

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