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Integrative Genomic Analysis, Big Data Processing and Programming, and Pharmaco-Informatics in Biomedicine

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Message from the Guest Editor

The development of high-throughput omics and deep sequencing technologies has generated a plethora of data in the public and private omics domains. However, laboratory analysis of these data has failed to meet the urgent clinical needs in cancer, diabetes, cardiovascular diseases, and other chronic diseases. Therefore, innovative computational strategies are needed to address urgent clinical problems. The application of multi-disciplinary strategies that include bioinformatics, genetics, molecular and cell biology, and translational studies would accelerate the proper detection of genetic alterations and determine appropriate disease targets based on next-generation sequencing and genome profiling technologies. This Special Issue welcomes multi-disciplinary original research articles and review papers on integrative genomic analysis, computational genomics, big data processing and programming, cancer genetics, immunobiology, immune checkpoint response prediction, drug target identification and validation, network pharmacology, pharmacogenomics, system biology, and protein–ligand interactions, as well as translational research.



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Message from the Editor-in-Chief

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