



Bioinformatics and Multi-Omics Approaches and Applications toward Precision Medicine

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Message from the Guest Editors

Recent advances in multi-omics, bioinformatics, and artificial intelligence are promising for the holistic elucidation of biomedical outcomes. It is now possible to collectively quantify and characterize biological data for large-scale cohort analyses through approaches such as genomics, transcriptomics, proteomics, and metabolomics. The use of bioinformatics and machine learning to perform integrative analyses of these multi-omics datasets facilitates biomarker discovery and the investigation of disrupted mechanisms in biomedical research. This Special Issue aims to present a range of methods and applications in bioinformatics and multi-omics for precision medicine. We seek research on advanced methodologies and tools for integrating multi-omics data with predictive modeling; reviews of or perspectives on advances in multi-omics approaches to discovering novel biomarkers for disease diagnosis and prognosis; and experimental methods for improving the detection of small molecules in biofluids such as serum.





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Message from the Editor-in-Chief

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