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Bioinformatics Study in Human Diseases: Integration of Omics Data for Personalized Medicine

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Message from the Guest Editors

Dear Colleagues,

An unprecedented breakthrough has been made in the wake of the application of next-generation sequencing technologies and advanced artificial intelligence methods. The advances accordingly bring a remarkable opportunity for the determination of key companion biomarkers and biosignatures, efficient diagnosis, prognostic predictions, potent drug identification, and possible mechanisms in a comprehensive way based on multi-omics data.

Bioinformatics is widely employed to cope with the above challenges. A variety of bioinformatics tools and open-access datasets have been developed to promote the integration of omics data, such as epigenomics, metabolomics, transcriptomics, and genomics, in a comprehensive way. In contrast to the traditional approach, bioinformatics has considerably boosted the accuracy of diagnosis and prognosis, expedited the discovery of novel drug targets, and deepened the functional understanding of disease mechanisms, paving a path to advance precision medicine.

We are pleased to invite you to contribute original research articles. Critical review manuscripts with a perspective vision setting the stage for future research are also welcome.



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Special Issue



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Message from the Editor-in-Chief

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