Topical Collection

Bioinformatics Approaches to Biomedicine

Message from the Collection Editor

Bioinformatics has become an indispensable tool in understanding the biological complexity of diseases and providing unprecedented insights into the biomedical sciences. The growth of omics data allowed studies at different molecular levels of the same sample, aiding to the identification of novel potential biomarkers and therapeutic targets, as well as disease patients' classification. This Topical Collection aims at presenting computational methods in bioinformatics, along with their application to biomedical sciences. The contributions may describe novel or and existing approaches to aid: the identification of diagnostic, prognostic, or predictive biomarkers; the discovery of potential therapeutic targets and important disease-related pathways; or provide valuable insights into a precision medicine. Potential topics include, but are not limited to:

- Biological data mining;
- Omics data analysis (genomics, transcriptomics, proteomics, and metabolomics);
- Omics data integration;
- Modelling Analysis in Health Informatics and Biomedicine;
- Network-based methods and machine learning methods for precision medicine;
- Biomarkers discovery and disease classification.

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Message from the Editor-in-Chief

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