

Special Issue

Multi-omics Data Integration in Complex Diseases

Message from the Guest Editors

Each year, complex genetic diseases are responsible for the deaths of millions worldwide. Generally, genetic changes may have effects on multiple levels such as gene expression change, post-transcriptional dysregulation, protein expression change and mis-localization. Despite developments in large-scale genomics, transcriptome and proteomics technologies, it is still challenging to interpret molecular intricacies and variations at multiple molecular levels. Therefore, multi-omics-based data integration is the critical step to advance our understanding of molecular mechanisms for human disease. Therefore, this Special Issue intends to cover manuscripts that provide valuable insight for both basic and clinical researcher communities. Particularly, we encouraged the submissions about: (1) molecular insights into the common and unique mechanism using multiple omics technologies; (2) novel computational frameworks for genetic variant classification and functional evaluation; (3) practical omics-guided diagnosis and prognosis treatment strategies.

Guest Editors

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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