

Special Issue

Multi-Omics Data Integration in Complex Diseases (2nd Edition)

Message from the Guest Editors

Complex and multifactorial diseases such as diabetes, cardiovascular and respiratory disorders, neurodegenerative conditions, and cancer remain leading causes of mortality worldwide. Their molecular origins span multiple biological layers—from genetic variation and gene expression to protein function and metabolic pathways—making their study both challenging and essential. This **Special Issue, “Multi-Omics Data Integration in Complex Diseases,”** aims to highlight cutting-edge research that uses genomic, transcriptomic, proteomic, and metabolomic technologies to unravel the intricate molecular networks underlying human disease. By integrating these data, researchers can uncover novel biological mechanisms, identify therapeutic targets, and accelerate the development of precision medicine approaches. We welcome original research and reviews addressing:

- Integration of multi-omics datasets and molecular networks
 - Computational and AI-based frameworks for complex data interpretation
 - Omics-driven diagnostic and therapeutic innovations
- Join us in advancing a systems-level understanding of complex diseases and driving progress toward personalized healthcare.

Guest Editors

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Message from the Editor-in-Chief

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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