

## Special Issue

# Multi-Omics Integration for Precision Medicine: From Pathogenesis, Diagnosis to Treatment

### Message from the Guest Editors

Precision medicine is revolutionizing healthcare by shifting from "one-size-fits-all" approaches to tailored interventions based on individual molecular profiles. At the heart of this transformation is multi-omics integration—the synergistic analysis of genomic, transcriptomic, proteomic, metabolomic, and metagenomic data alongside real-world clinical and cohort-based phenotypic data. This Special Issue aims to highlight cutting-edge research that bridges the gap between large-scale molecular data and clinical application.

We invite submissions that demonstrate how integrative multi-omics strategies can elucidate complex disease mechanisms (pathogenesis), identify robust biomarkers for early detection and stratification (diagnosis), and reveal novel therapeutic targets for personalized care (treatment). The scope encompasses computational frameworks for data integration, machine learning applications in systems biology, and translational studies in areas such as oncology, immunology, and metabolic disorders. By synthesizing diverse biological layers, this Special Issue seeks to provide a comprehensive view of disease biology and advance the implementation of precision medicine.

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### Guest Editors

Dr. Sanghun Lee  
Dr. Brian Kwan  
Dr. Kangjin Kim

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### Deadline for manuscript submissions

31 July 2026



## Current Issues in Molecular Biology

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## About the Journal

### Message from the Editor-in-Chief

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#### Editor-in-Chief

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##### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).

##### Recognition of Reviewers:

APC discount vouchers, optional signed peer review, and reviewer names are published annually in the journal.