



Advances in Statistical Methods and Applications for Multi-Omics Data

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Message from the Guest Editors

It is our pleasure to invite you to submit a paper to our upcoming Special Issue on "Advances in Statistical Methods and Applications for Multi-Omics Data".

With the advent of high-throughput technologies, multi-omics data have become increasingly prevalent in many areas of research, including genomics, transcriptomics, proteomics, and metabolomics. These datasets are high dimensional, complex, and heterogeneous, and require sophisticated statistical methods for accurate and meaningful analysis.

This Special Issue will highlight recent advancements in statistical methods and their applications in multi-omics data analysis. We welcome submissions that cover a wide range of topics, including but not limited to:

- *Dimension reduction and feature selection methods;
- *Integration and fusion of multi-omics data;
- *Network and pathway analysis;
- *Machine learning and deep learning approaches;
- *Statistical models for longitudinal and time-series data;
- *Software tools and packages for multi-omics data analysis.

We hope that this Special Issue will provide a platform for researchers from various disciplines to share their latest findings, discuss emerging challenges, and propose novel solutions.





Editor-in-Chief

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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