

Special Issue

Single-Cell Omics Biology

Message from the Guest Editor

Single-cell omics is an emerging research area, offering a means to individually study attributes of cells, including their gene expression, epigenetics, transcriptomics, proteomics, and metabolomics. This progress is fueled by the continual refinement of advanced techniques such as DNA sequencing, mass spectroscopy, imaging, and microfluidics. Bioinformatics plays an indispensable role in the growth of single-cell multi omics research. It deploys various computational approaches to increase the speed of data preprocessing, enhance data quality, integrate data at multiple biological levels, create data analysis and statistical models, develop user-friendly visualization tools, and utilize machine learning algorithms to predict outcomes or allow predictive models. Single-cell omics allows for multidisciplinary research by integrating various readouts in biological systems, thus accelerating our understanding of biological processes.

Guest Editor

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Message from the Editorial Board

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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