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Single-Cell Omics Biology

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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.



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