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Single-Cell Multi-Omics and Its Applications in Cancer Research

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Deadline for manuscript submissions:

closed (31 July 2023)

Message from the Guest Editors

Dear Colleagues,

Single-cell sequencing technologies, aiming to reveal cellular dynamics at true biological resolution, have substantially advanced our understanding of inter- and intra-heterogeneity as well as functional diversity among cell types and/or individual cells in human cancers. Concurrent with single-cell multi-omics studies, deep learning has proved feasible to tackle the high-dimensional data yielded by single-cell profiling, and to improve signal-to-noise ratios while handling tasks like imputation, batch correction and clustering. Despite the most recent developments in single-cell multi-omics technologies and deep learning applications in cancer research, more exciting challenges and new perspectives remain to be explored.

This Special Issue will be devoted to single-cell multi-omics research in human cancers by incorporating the following studies: (1) integrative approaches of single-cell multi-omics data; (2) deep learning methodologies using single-cell profiling; and (3) drug discovery and repurposing using single-cell multi-omics data.

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mdpi.com/si/128885

Special Issue



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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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