Special Issue

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

Message from the Guest Editors

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.

Guest Editors

Dr. Huihui Fan
Dr. Fulong Yu
Dr. Desi Shang

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Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

mdpi.com/journal/cells

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About the Journal

Message from the Editorial Board

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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Dr. Alexander E. Kalyuzhny
Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE, Minneapolis, MN 55455, USA

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