



cells



an Open Access Journal by MDPI

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

Guest Editors:

### Dr. Huihui Fan

UT Health Science Center at Houston, Center for Precision Health, School of Biomedical Informatics, 7000 Fannin St. E755C, Houston, TX 77030, USA

### Dr. Fulong Yu

Division of Hematology/Oncology, Boston Children's Hospital, Harvard Medical School, Boston, MA, USA

### Dr. Desi Shang

The First Affiliated Hospital, Hengyang Medical School, University of South China, Hengyang, China

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.

Dr. Huihui Fan  
Dr. Fulong Yu  
Dr. Desi Shang  
*Guest Editor*



[mdpi.com/si/128885](https://mdpi.com/si/128885)

Special Issue



*cells*



an Open Access Journal by MDPI

## Editors-in-Chief

### **Dr. Alexander E. Kalyuzhny**

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

### **Prof. Dr. Cord Brakebusch**

Biotech Research & Innovation Centre, The University of Copenhagen, Copenhagen, Denmark

## 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.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [CAPus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

## Contact Us

---

*Cells* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/cells](http://mdpi.com/journal/cells)  
[cells@mdpi.com](mailto:cells@mdpi.com)  
[X@Cells\\_MDPI](#)