

Special Issue

Multi-Omics Data Integration and Bioinformatics Tools in Oncology

Message from the Guest Editors

Advances in high-throughput sequencing and other omics technologies have generated vast amounts of molecular data that provide unprecedented opportunities to understand cancer biology. Integrating diverse datasets, including genomics, transcriptomics, epigenomics, proteomics, glycomics, and metabolomics, has become essential for revealing the complex regulatory mechanisms underlying tumor development, progression, and therapeutic response. This Special Issue will highlight innovative computational approaches, bioinformatics tools, and analytical frameworks designed to integrate and interpret multi-omics data in cancer research. We welcome contributions describing new algorithms, machine learning and artificial intelligence methods, and computational platforms that facilitate the discovery of biomarkers, cancer subtypes, and molecular mechanisms. By bringing together advances in data integration, computational modeling, and translational oncology, this Special Issue will promote interdisciplinary collaboration and accelerate the development of precision oncology strategies.

Guest Editors

Dr. Tongjun Gu

Versiti Blood Research Institute, Milwaukee, WI, USA

Prof. Dr. Wei Zhang

Department of Preventive Medicine, Northwestern University Feinberg School of Medicine, 680 N. Lake Shore Dr., Suite 1400, Chicago, IL 60611, USA

Deadline for manuscript submissions

20 December 2026



Cancers

an Open Access Journal
by MDPI

Impact Factor 4.4
CiteScore 8.8
Indexed in PubMed



mdpi.com/si/277479

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

[mdpi.com/journal/
cancers](https://mdpi.com/journal/cancers)





Cancers

an Open Access Journal
by MDPI

Impact Factor 4.4
CiteScore 8.8
Indexed in PubMed



[mdpi.com/journal/
cancers](https://mdpi.com/journal/cancers)



About the Journal

Message from the Editor-in-Chief

Cancers (ISSN 2072-6694) is an international, online journal addressing both clinical and basic science issues related to cancer research. The journal will continue its open access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

Editor-in-Chief

Prof. Dr. Samuel C. Mok

Department of Gynecologic Oncology and Reproductive Medicine, The University of Texas MD Anderson Cancer Center, Houston, TX 77030, USA

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, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Oncology) / CiteScore - Q1 (Oncology)