

Special Issue

Multi-Omics Technologies in Immunity Within Tumors

Message from the Guest Editors

Cancer immunotherapy has revolutionized oncology, offering durable clinical benefits to a growing number of patients. However, its success is often limited to a subset of individuals, highlighting the profound complexity and heterogeneity of the tumor immune microenvironment (TME). Traditional, single-analyte biomarkers frequently fall short of capturing the intricate interplay between tumor cells and the host immune system, making patient selection and treatment personalization significant challenges.

High-throughput multi-omics technologies—including genomics, epigenomics, transcriptomics, proteomics, immuno-proteomics and metabolomics—present an unprecedented opportunity to dissect this issue.

This Special Issue, "Multi-Omics Technologies in Immunity within Tumors," aims to compile cutting-edge research that leverages multi-omics to deepen our understanding of cancer immunology. We welcome original research articles and comprehensive reviews that apply integrative analytical strategies to illuminate the dynamic TME and pave the way for the next generation of precision immuno-oncology.

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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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