

Special Issue

Multi-Omic Data Integration in Oncology

Message from the Guest Editors

Recent advances in bioinformatics and high-throughput technologies have revolutionized our ability to understand cancer biology through multi-omics approaches. By integrating data across bulk-level and single-cell omics, as well as emerging spatial multi-omics platforms, researchers can systematically dissect the complex molecular landscapes of tumors. This Special Issue, "Multi-Omic Data Integration in Oncology", aims to highlight innovative strategies and applications that bridge genomic, transcriptomic, proteomic, metabolomic, and pharmacogenomic datasets to generate comprehensive cancer molecular profiles.

A particular focus will be placed on mapping the tumor microenvironment and elucidating the dynamic interactions between cancer cells, stromal components, and immune infiltrates. Leveraging these integrative insights can reveal novel biomarkers, therapeutic targets, and mechanisms underlying therapy resistance. Additionally, the use of spatially resolved multi-omics will enable the visualization of molecular heterogeneity and signaling pathways in situ, offering unprecedented perspectives on tumor evolution and response to treatment.

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