

Special Issue

Recent Advances in Omics for Cancer Research

Message from the Guest Editor

We are pleased to invite you to contribute to this Special Issue entitled Recent Advances in Omics for Cancer Research, which focuses on the expanding role of omics technologies in deciphering the molecular complexity of cancer. Cancer is a multifactorial and heterogeneous disease driven by genetic, epigenetic, metabolic and microenvironmental alterations. Traditional reductionist approaches are often insufficient to capture this complexity. In contrast, omics-based technologies enable comprehensive, unbiased profiling of tumors and their microenvironment, offering unprecedented insights into oncogenic pathways, immune modulation, tumor evolution and inter-patient variability. Recent advances in multi-omics integration, single-cell sequencing, spatial omics and artificial intelligence-driven data analysis are further accelerating discoveries in cancer research and clinical oncology. These developments are redefining biomarker discovery, patient stratification, drug development and personalized medicine.

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