

Special Issue

Liver Cancer Heterogeneity in the Era of Single-Cell and Spatial Multiomics

Message from the Guest Editors

Liver cancers, including hepatocellular carcinoma (HCC) and cholangiocarcinoma (CCA), remain among the most lethal malignancies worldwide, driven in part by their profound heterogeneity at the genetic, cellular, and microenvironmental levels. Traditional bulk profiling approaches have failed to capture the complexity of tumor subtypes, immune landscapes, and stromal interactions that define patient outcomes and therapeutic responses. This Special Issue aims to highlight recent advances in resolving liver cancer heterogeneity using high-dimensional technologies, including single-cell RNA sequencing, spatial transcriptomics, multiplexed imaging, and integrated multiomics approaches. We welcome original research papers and comprehensive reviews that explore cellular ecosystems of liver tumors and dissect intercellular signaling networks involved in immune evasion, fibrosis, and therapy resistance.

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