

Special Issue

Precision Approaches in Solid Tumor Oncology: From Molecular Pathways to Therapy Response

Message from the Guest Editors

Solid tumors represent a highly heterogeneous group of diseases in which clinical behavior and treatment response are shaped by a complex interplay of molecular alterations and histopathological features. Recent advances in genomics, transcriptomics, and digital pathology have deepened our understanding of tumor biology, while classical and emerging histological and immunohistochemical approaches continue to play an essential role in accurate diagnosis, tumor characterization, and therapeutic decision-making. The integration of these complementary approaches is central to modern precision oncology. This Special Issue aims to showcase the latest developments in the characterization of solid tumors and their implications for individualized patient care. We welcome original research and review articles covering molecular mechanisms of tumor progression, predictive and prognostic biomarkers, therapeutic resistance, innovative diagnostic tools, and translational strategies that bridge basic science with clinical practice. Contributions related to histology, immunohistochemistry, multi-omics integration, liquid biopsy, spatial biology, and emerging therapeutic approaches are encouraged.

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