

Special Issue

Targeting Receptor Tyrosine Kinases and Related Signalling Pathways in Cancer: Mechanisms, Resistance, and Therapeutic Advances

Message from the Guest Editors

Tyrosine kinase receptors (TKRs) play a pivotal role in cancer progression by driving key cellular processes such as proliferation, migration, differentiation, survival, invasion, and metastasis. Despite the success of tyrosine kinase inhibitors (TKIs) in cancer therapy, intrinsic and acquired resistance mechanisms remain a significant challenge. This Special Issue aims to explore the latest advances in TKR signaling, resistance mechanisms, and novel therapeutic strategies, including next-generation TKIs, combination treatments, and immunotherapy approaches. We welcome authors to submit original research and review articles covering diverse aspects of TKR biology, including the identification of predictive biomarkers, the interplay between TKRs and other signaling pathways, the emerging role of non-coding RNAs in modulating TKR function, and strategies to overcome therapeutic resistance.

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