

Special Issue

Fundamental and Translational Insights into Colorectal Cancer

Message from the Guest Editor

Colorectal cancer (CRC) is a leading cause of cancer-related death worldwide, driven by genetic, epigenetic, and environmental factors. Fundamental research has identified key molecular pathways involved in CRC, including mutations in APC, KRAS, and TP53, as well as the role of the Wnt/ β -catenin signaling pathway.

Emerging insights into the tumor microenvironment, immune response, and gut microbiota have further expanded our understanding of CRC progression. Translational research is bridging the gap between these discoveries and clinical applications, leading to advancements in early detection, targeted therapies, and immunotherapy. Liquid biopsy and circulating tumor DNA analysis are improving non-invasive diagnostics. Novel treatments, such as immune checkpoint inhibitors and personalized medicine approaches, are showing promise in improving patient outcomes. Despite these advancements, challenges remain, including drug resistance and tumor heterogeneity. The continued integration of fundamental and translational research is essential for developing innovative therapies and improving survival rates in patients with CRC.

Guest Editor

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