

Special Issue

Recent Advances and Challenges in Colorectal Cancer: From Molecular Research to Treatment

Message from the Guest Editor

Colorectal cancer (CRC) is a major cause of morbidity and mortality worldwide. In the majority of cases, CRC begins as a benign adenomatous polyp, transitions into an advanced adenoma, and progresses to an invasive cancer. The best-studied molecular pathways involved in CRC can be broadly classified, based on their genetic mutation status, as oncogenic and tumor suppressor pathways. However, CRC is heterogeneous, and challenges exist in understanding the full spectrum of mechanisms that initiate its development and drive progression and metastasis, as well as in determining their responsiveness to anticancer therapeutic strategies.

Tumor heterogeneity is one of the main mechanisms of drug resistance in CRC, mainly due to genetic and epigenetic mechanisms. Therefore, understanding CRC's molecular complexity is required to facilitate the development of novel therapeutic strategies to reduce drug resistance and enhance patient survival.

Guest Editor

Dr. Premila Leiphrakpam

Division of Surgical Oncology, Department of Surgery, College of Medicine, University of Nebraska Medical Center, Omaha, NE 68198, USA

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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