

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

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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