

Special Issue

Focus on Chemoradiation Resistance: The Challenge of Cancer Therapy

Message from the Guest Editors

Despite remarkable advances in cancer therapy, chemoradiation resistance continues to limit therapeutic success and remains a major clinical challenge. This phenomenon is driven by a complex interplay of intrinsic tumor characteristics, adaptive cellular responses, and microenvironmental factors that allow malignant cells to survive and proliferate under treatment pressure. Mechanistic insights into DNA repair pathways, tumor heterogeneity, and immune evasion have provided a foundation for developing novel strategies to circumvent resistance, yet translating these findings into clinical practice remains an ongoing challenge.

This Special Issue, seeks to highlight current understanding and emerging concepts in this rapidly evolving field. We aim to integrate findings from basic research, translational studies, and clinical trials to foster a multidisciplinary dialogue on how to predict, monitor, and overcome resistance. By emphasizing both biological mechanisms and therapeutic innovation, this collection aspires to inform future personalized treatment strategies and ultimately improve patient survival and quality of life.

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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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