

Special Issue

Combating Drug Resistance in Cancer—from Novel Biomarkers to Enhanced Therapeutic Efficacy

Message from the Guest Editors

The development of chemoresistance represents a major hurdle for the successful treatment of cancer. A multitude of scientific findings from recent preclinical and clinical studies have undoubtedly broadened our current knowledge of the mechanisms underlying the development of cancer drug resistance and have paved the way for the design of novel therapeutic strategies for patients with refractory cancer. In this Special Issue of the *IJMS*, we welcome basic and translational studies that address all issues pertinent to cancer drug resistance, including the following: the discovery of novel molecular mechanisms and druggable targets for chemoresistance; the identification of novel prognostic and predictive biomarkers of chemoresistance to enable patient stratification and to tailor treatment; the application of bioinformatics and artificial intelligence tools for drug response prediction, risk stratification and the elucidation of the chemoresistance mechanisms by integrating different molecular information; and the discovery of novel combinations of clinically approved anticancer drugs with chemotherapy-sensitising agents to overcome chemoresistance in cancer patients.

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Message from the Editor-in-Chief

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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