

Special Issue

Drug Resistance in Cancer: Molecular Mechanisms and Tackling Strategies

Message from the Guest Editors

The rapidity with which cancer cells can develop resistance, to both classical chemotherapy and targeted agents, is startling. With the knowledge that each cubic centimetre of tumour contains up to one billion cancer cells, novel insights into both primary and acquired resistance mechanisms, including drug detoxification, alterations in drug targets, genomic/epigenetic instability, increased ability to repair DNA damage, reduced susceptibility to apoptosis, as well as the influence of the tumour microenvironment and clonal cooperation, are required to substantially alter therapeutic treatment practices and increase overall survival. Some of these resistance pathways lead to multidrug resistance, generating an increasingly challenging clinical problem to overcome.

This Special Issue of IJMS will highlight the recent advances in the field of drug resistance, particularly novel mechanisms and targeted strategies to tackle this global modern medicine concern. Experimental papers, up-to-date review articles, and commentaries are all welcome.

Guest Editors

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Dr. Elizabeth Christie

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Deadline for manuscript submissions

closed (15 May 2023)



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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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