

Special Issue

Molecular Mechanisms of Action and Cytotoxicity of Potential Anticancer Drugs

Message from the Guest Editor

Cancer is the second leading cause of death worldwide. Chemotherapy is still an important treatment modality for these diseases. However, in many cases antineoplastic drugs are not only cytotoxic to tumor cells, but also affect normal cells, leading to serious adverse effects. In addition, resistance to chemotherapeutic drugs is another of the major limitations in the treatment. This has led to the development of new cytotoxic agents, and the understanding of key biological control mechanisms to identify drug targets may have important clinical implications. The development of new anticancer drugs and the understanding of key biological control mechanisms to identify drug targets may have important clinical implications. Many of these promising compounds exhibit cancer-cell cytotoxicity through multiple signal transduction pathways. This Special Issue aims to cover advances on the interference in all phases of cancer progression by modulating key proteins involved in survival, proliferation, angiogenesis, apoptosis, metastasis and reverse multidrug resistance processes, as well as signal transduction pathways triggered by anticancer drug candidates.

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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