Special Issue

P53 and Tumours: Strategies to Overcome Chemoresistance in a p53-Dependent Way

Message from the Guest Editor

P53 is a key factor involved in protecting cells against genotoxic stresses. The P53 protein mainly acts by activating cell-death-related genes and pathways in order to respond to severe stress and irreparable DNA damage. Where the damage is not so severe, it transactivates the cell cycle as well as DNA-repair-related genes in order to repair damaged DNA and restore proper cell proliferation, thus avoiding tumour onset and progression. A complete overview of the molecular alterations both in p53 protein expression and in the p53-related pathways (defined by coding genes as well as regulatory RNAs) involved in mechanisms such as cell cycle arrest, DNA repair, and cell death, above all, would help to design strategies to fight aggressive chemoresistant tumours. This Special Issue aims at summarizing all the latest studies and discoveries in this field in order to give useful information to be used for pharmaceutical and therapeutic strategies in order to overcome and reverse chemoresistance in cancer therapy.

Guest Editor

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Deadline for manuscript submissions

31 August 2025

International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed

mdpi.com/si/236661

International Journal of Molecular Sciences
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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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