

Special Issue

Advances in Structure, Function and Molecular Targeting of DNA Topoisomerases

Message from the Guest Editors

Topoisomerases are essential enzymes in living systems playing critical roles in transcription, replication, cell division, and DNA damage repair. Work over the last 45+ years has elucidated many facets of the function of these enzymes, but critical questions remain. Although work has been completed on some fundamental questions of function and mechanism, additional questions related to regulation, localization, and protein–protein interactions have been raised. Further, the utility of anticancer and antibacterial drugs targeting topoisomerases have been widely recognized, and many chemotherapeutic regimens still include topoisomerase poisons. Thus, work must continue to explore both the available agents and in identifying new ones. This Special Issue of the *International Journal of Molecular Sciences* focuses on topoisomerases, and welcomes both original research articles and review papers that deal with advances in our understanding of topoisomerase structure, function, and molecular targeting for therapeutic purposes. Prof.

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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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