



Advances in Structure, Function and Molecular Targeting of DNA Topoisomerases

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Message from the Guest Editors

Dear Colleagues,

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. Dr. Joseph E. Deweese
Guest Editor





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Message from the Editor-in-Chief

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