

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.

Guest Editors

Prof. Dr. Joseph E. Deweese

1. Professor of Biochemistry, Freed-Hardeman University, Henderson, TN 38340, USA

2. Adjunct Associate Professor, Biochemistry Department, Vanderbilt University, Nashville, TN 37232, USA

Prof. Dr. Neil Osheroff

Department of Biochemistry, Vanderbilt University School of Medicine, Nashville, TN 37232, USA

Deadline for manuscript submissions

closed (15 June 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/116038

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)



About the Journal

Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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.

Editor-in-Chief

Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)