

Special Issue

Evaluating DNA Damage and Toxicological Effects

Message from the Guest Editors

The human genome is constantly challenged by endogenous and exogenous electrophiles that form potentially toxic and mutagenic DNA adducts. This Special Issue will discuss the role of DNA damage in aging and cancer, focusing on adduct structures, detection methods, and their biological and toxicological outcomes. We will review DNA lesions generated from endogenous reactive species and exogenous damaging agents, including environmental toxins and chemotherapeutic drugs. For detection methods, we will cover various techniques including LC-MS, antibody-based methods, and NMR. For biological outcomes of DNA adducts, we will consider toxicological effects, chemical reactivity, mutagenicity, and toxicity. We will also discuss DNA repair mechanisms. Overall, this Special Issue will review the latest advancements in DNA adducts and their toxicological effects.

Guest Editors

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Deadline for manuscript submissions

closed (10 February 2026)



Toxics

an Open Access Journal
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Impact Factor 4.1
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/235328

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About the Journal

Message from the Editor-in-Chief

Toxics (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the second half of 2025).