

## Special Issue

# Toxicants Induced Developmental and DNA Damage in *Caenorhabditis elegans*

### Message from the Guest Editors

This Special Issue aims to assemble pioneering research exploring the impact of environmental toxicants on the developmental processes and DNA stability of *C. elegans*. The collection of papers in this issue covers a wide range of toxicants, including heavy metals, pesticides, industrial chemicals and emerging concern chemicals, along with their specific mechanisms of action that lead to developmental abnormalities and genetic damage in this organism. The topics of interest include, but are not limited to, the following:

- Mechanistic studies on toxicant-induced developmental disruptions;
- Investigations into DNA damage and repair mechanisms triggered by toxic exposure;
- Mechanistic studies on how specific toxicants affect the development and genetic stability in *elegans*;
- Comparative toxicology and the cross-species relevance of findings in *C. elegans*;
- Advances in methodological approaches to studying toxicant exposure in *C. elegans*, including high-throughput screening, automated phenotyping and CRISPR-Cas9 gene editing.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 January 2025)



## Toxics

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CiteScore 6.4  
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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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### Editor-in-Chief

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#### High Visibility:

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

#### Journal Rank:

JCR - Q1 (Toxicology) / CiteScore - Q1 (Chemical Health and Safety)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.1 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).