## **Special Issue**

## Advances in Mechanism Based Toxicity and Hazard Assessment of NGTxC Chemicals 2.0

## Message from the Guest Editors

There is a regulatory gap in addressing the hazard assessment of Non Genotoxic Carcinogenic Chemicals to better protect public health for many product and regulatory sectors, and alternative mechanistic based approaches are needed to address this gap. This Special Issue will focus on recent advances in the hazard assessment of non genotoxic carcinogenic (NGTxC) chemicals and will include papers on:

- Assay developments and chemicals screened that plausibly address relevant mechanisms and modes of action, including: ADME; Immune response and inflammatory biomarkers; Cytoskeleton modification; Cancer specific kinase activation; 3D models that can genuinely address the complexity at the tissue level.
- Relevant quantitative and qualitative pathway based approaches for NGTxC.
- Applications of molecular targets from human clinical data for mechanistic understanding of key biomarkers in the carcinogenesis process.
- Discussion on human relevance of mechanisms and modes of action.
- Potentiation effects of viruses on chemical non genotoxic carcinogenicity.

We warmly welcome submissions, including original papers and reviews, on these topical needs.

### **Guest Editors**

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## Deadline for manuscript submissions

closed (20 July 2025)



# International Journal of Molecular Sciences

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## Message from the Editor-in-Chief

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.

## **Editor-in-Chief**

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