



toxics



an Open Access Journal by MDPI

DNA Adducts for Characterization of Exposure

Guest Editor:

Dr. Hitesh V. Motwani

Department of Environmental
Science, Stockholm University,
Stockholm, SE, 10691, Sweden

Deadline for manuscript
submissions:

closed (28 February 2022)

Message from the Guest Editor

The field of DNA adductomics has been evolving as a new omics approach in toxicology research. Characterizing the structural modifications to DNA, as part of adductomics, can allow to identify certain exposures related to environmental stress, both genotoxic and nongenotoxic. The exposure could be related to potential carcinogens. Alternatively, oxidative adducts arising from reactive oxygen species, if not repaired, might lead to mutations. Improving chromatographic separation, data processing and structural elucidation, as well as developing approaches for the use of adduct measurements in risk assessment procedures are some of the challenges in the field. In this issue, we invite high-quality original research papers, short communications, and reviews related to linkages between DNA adducts and exposure assessment. In addition to exposure to humans, environmental stress factors and exposure to wild-life species are areas of concern. Topics of interest include (but are not limited to) reactive metabolites, oxidative stress, methylation as epigenetic marker and MS-based development and applications of adductomics.



mdpi.com/si/66666

Special Issue



toxics



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Demetrio Raldúa

Department Environmental
Chemistry, IDAEA-CSIC, Jordi
Girona 18, 08034 Barcelona,
Spain

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.

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](#), [Embase](#), [CAPlus / SciFinder](#), [AGRIS](#), and [other databases](#).

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

Contact Us

Toxics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/toxics
toxics@mdpi.com
X@@Toxics_MDPI