

## Special Issue

# Impact of Micro- and Nanoplastics and Protective Dietary Nutrients for Human Health

### Message from the Guest Editors

The environmental impact of micro- and nanoplastics (MNPs) has dramatically increased, representing a major global concern in virtue of their persistence and bodily accumulation. Recently, dietary nutrients have gained considerable attention for enhancing resilience to MNPs and overall human health. Interestingly, dietary nutrients display biphasic dose–response effects by activating, at the minimum dose, anti-apoptotic pathways such as Bcl-2, tight junction proteins, the Nrf2 pathway, and antioxidant proteins to block reactive oxygen species (ROS) and restore barrier integrity. The Special Issue focuses on nutrition targeting several cellular and molecular pathways to block MNP-induced toxicity and regulate impaired tight junctions and epigenetic alterations and explores the underlying mechanisms using innovative in vitro and in vivo technologies for the development of promising protective strategies and personalized nutritional therapies in order to prevent or attenuate oxidative stress, apoptosis, and inflammation and, consequently, promote human health.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 March 2025)



## Toxics

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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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