

Special Issue

Current Developments in Microbial Ecotoxicology of Priority, Legacy and Emerging Pollutants

Message from the Guest Editors

It is known that microorganisms are sensitive indicators of environmental pollution being largely used in ecotoxicity assessment due to their fast response to toxics, ease to culture and maintenance in the laboratory and their use does not raise ethical issues. The big efforts in microbial toxicity must be directed towards to the: 1) development of new tools that allow the early detection of the effects of pollutants 2) identification of the main targets of pollutants. We are pleased to invite you to contribute with an original research or a review paper. Research areas may include (but are not limited to) the following: Toxicity effects of priority, legacy and emerging pollutants in microorganisms;

Microbial targets/effects of toxics at different biological levels (molecular, cellular);

New toxicity endpoints/tools;

Development of new bioassays and bioindicators;

Study of single and mixture of toxics;

Toxicity studies with realistic concentrations of pollutants;

Elucidation of the mechanisms of action underlying pollutants toxicity;

Oxidative damage;

Antioxidant defence mechanisms (non- and enzymatic);

Omics approaches in toxicological studies.

Guest Editors

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Deadline for manuscript submissions

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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 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).