

## Special Issue

# Big Data Calculation and New Findings for Aquatic Toxicology

### Message from the Guest Editors

With the help of new and advanced tool development, we are witnessing a large transition from a manual to a fully automated and systematic dissection of biological questions in the field of aquatic toxicology. For example, by using machine learning, computer vision and big data calculation methods, we are able to address animal/plant cell counting, cardiac physiology and locomotion tracking in a diverse organisms like duckweed, tetrahymena, water flea and zebrafish [1,2,3]. This Special Issue “Big Data Calculation and New Findings for Aquatic Toxicology” of *Toxics* particularly welcomes researchers who use big-data-mining skill to address diverse questions pertaining to aquatic toxicology. Mathematic algorithms, image segmentations, classifications, locomotion trajectory analyses, volumetric predictions and multiple dimensional data analyses applied to plants, animals or protozoa are especially welcome. Novel tools or new applications that could to help wet-lab researchers to ask better biological questions are appreciated. This Special Issue of the *Toxics* journal invites researchers around the world to submit their results or reviews in the field.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 July 2024)



## Toxics

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Impact Factor 4.1  
CiteScore 6.4  
Indexed in PubMed



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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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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 17.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the second half of 2025).