Special Issue

Research on Biotoxins Based on Model Organisms

Message from the Guest Editor

Systems-level approaches lie at the forefront of toxicology, including our understanding of biotoxins. Such approaches are driven by the integration of classical toxicological techniques with state-of-the-art technologies in relation to the increasing complexity from biochemical, molecular, and cellular to organismal, and even population, levels. It has been specifically enabled by the availability of an ever-growing number of model organisms as toxicological systems. They are able to effectively target both relevant levels of toxicity and in the context of naturally occurring biotoxins potentially provide direct relevance to plant and animal health and ecosystems. This SI invites both reviews and original research contributions related to the topic of model organisms, and the application of toxicological methodologies to these systems, toward the advancement of our understanding of biotoxins from microbes, plants, and animals in relation to

- their targets, mechanisms, and modes of action;
- their fate including uptake, bioavailability, and metabolism;
- their larger relevance in areas of both human and animal health, as well as agriculture and ecotoxicology.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Toxinology is an incredibly diverse area of study, ranging from field surveys of environmental toxins to the study of toxin action at the molecular level. The editorial board and staff of *Toxins* are dedicated to providing a timely, peer-reviewed outlet for exciting, innovative primary research articles and concise, informative reviews from investigators in the myriad of disciplines contributing to our knowledge on toxins. We are committed to meeting the needs of the toxin research community by offering useful and timely reviews of all manuscripts submitted. Please consider *Toxins* when submitting your work for publication.

Editor-in-Chief

Prof. Dr. Jay Fox
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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).

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