Special Issue

Proteomics Analysis in Animal Venom

Message from the Guest Editor

A basic issue for animals is how to win-out survival competitions by balancing trade-offs and trait modifications necessary for predation and those intended for defence. Venomous animals can use toxins to mediate both key processes, might be expected to alter venom composition. Our understanding of the dual-purpose nature of toxin chemistry has significantly expanded over recent years because of improvements *in* modern instrumentation that supports large-scale measurement of venom proteomes. In this Special Issue, manuscripts that describe proteomics approaches offering critical insights into the following themes are especially welcome:

- Comparative study of toxins in poorly studied venomous animals.
- Adaptiveplasticity in venom composition related to animal behaviour or ecology.
- Integrating de novo peptide sequencing with annotation methods to assign the sequence to tandem mass spectra that are routinely discarded.
- Informatics methods to extract biological value from sequences by linkage to multiple biological, chemical and literature resources.
- Pharmaceutical discovery of novel therapeutic peptides.

Guest Editor

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Deadline for manuscript submissions

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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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