

## Special Issue

# Animal Toxins: Biodiscovery, Mechanistic Insights and Translational Potential

### Message from the Guest Editors

Animal toxins are evolutionarily refined molecular weapons with tremendous translational potential. However, only a subset of all venomous and poisonous animals has been investigated thus far and, accordingly, the vast majority of biomolecules present in these remain to be discovered. This Special Issue aims to serve as a collection of excellent contributions on animal toxin biodiscovery, function and applications. It seeks to pioneer biodiscovery across the animal kingdom, providing important insights into the bioactivities and mechanistic foundations of hitherto understudied compounds and promoting their translational use. It therefore welcomes experimental studies and review articles that employ state-of-the-art technologies (e.g., genomics, proteomics or metabolomics) in uncovering novel biomolecules from venoms and poisons. It will also feature works that investigate the mode of action, structure–function relationships and effects of chemical modification on toxin bioactivity as well as studies that explore the translational potential of animal toxins in biomedicine, industrial production and agronomy.

### Guest Editors

Dr. Tim Lüddecke

Fraunhofer Institute for Molecular Biology and Applied Ecology IME,  
Animal Venomics Research Group, Ohlebergsweg.12, 35392 Gießen,  
Germany

Dr. Simon Blank

Center of Allergy and Environment (ZAUM), Technical University of  
Munich, Faculty of Medicine and Helmholtz Center Munich, German  
Research Center for Environmental Health, D-85764 Munich, Germany

### Deadline for manuscript submissions

closed (30 November 2023)



## Toxins

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*Toxins*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[toxins@mdpi.com](mailto:toxins@mdpi.com)

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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.

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### Editor-in-Chief

Prof. Dr. Jay Fox

Department of Microbiology, University of Virginia, Charlottesville, VA,  
USA

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#### Rapid Publication:

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).