Special Issue

Venom Peptides: Role of Predatory and Defensive Adaptations in Their Evolution and Chemical Biology

Message from the Guest Editors

Venoms produced by animals provide a rich chemical arsenal of bioactive peptides and proteins evolved to efficiently subdue unsuspecting prey and to deter predators. The prey capture (offensive) advantages of venom have been well documented for many venomous groups including cone snails, snakes, spiders or scorpions, and their defensive use of venom is instinctively associated with some of our deepest fears. However, the inter-related evolution of these adaptations and how separate evolutionary pressures have shaped the composition of injected venoms for the most part remain to be elucidated. In this Special Issue, we aim to bring together contributions that demonstrate predatory and/or defensive influences on the evolution and structure-function of venom peptides from a diverse range of venomous animals.

Guest Editors

Prof. Dr. Richard J. Lewis

Institute for Molecular Bioscience, The University of Queensland, Brisbane, QLD 4072, Australia

Dr. Sebastien Dutertre

Institut des Biomolécules Max Mousseron, UMR 5247, Université Montpellier, CNRS, Place Eugène Bataillon, 34095 Montpellier CEDEX 5, France

Deadline for manuscript submissions

closed (31 December 2018)

Toxins

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/13734

Toxins
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
toxins@mdpi.com

mdpi.com/journal/toxins

Toxins

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 8.2
Indexed in PubMed

mdpi.com/journal/toxins

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Toxicology) / CiteScore - Q1 (Toxicology)

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).

MDPI