Special Issue

Biotechnological Potential of Animal Venom and Toxins

Message from the Guest Editors

This special issue focused on the study of animal venoms and toxins, which comprise a plethora of bioactive molecules and, despite the extensive research in this field, as stated by Dr. A. Harvey “we are only scratching at the surface of the topic”. Most of the toxins from different venomous animals have not yet been discovered or studied. However, some of these molecules have become models for the development of drugs that are widely used, e.g. captopril, a synthetic antihypertensive compound that inhibits angiotensin converting enzyme and whose structure was inspired by a venom peptide from the snake *Bothrops jararaca*. Another example is the analgesic peptide omega-MVIIA from *Conus magus*, which became a potent analgesic drug. Other toxins have been used extensively as pharmacological tools allowing for the study of the structure and the activity of ion channels and other receptors, unveiling new active sites to be explored for medicines. This Special Issue highlights works involving animal venoms and toxins with promising pharmacological and therapeutic activity. We look forward to your submission.

Guest Editors

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Deadline for manuscript submissions

closed (20 May 2023)

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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

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