Special Issue

Venom Peptides as Precision Therapeutics: From Discovery to Clinical Translation

Message from the Guest Editors

This Special Issue titled "Venom Peptides as Precision Therapeutics: From Discovery to Clinical Translation" explores the potential of venom-derived peptides in modern therapeutics. Venoms from various organisms, including snakes, spiders, and marine life, are rich sources of bioactive compounds with unique pharmacological properties. The SI will focus on the multifaceted journey of venom peptides, from their initial discovery and characterization to their application as targeted therapies in clinical settings. We will explore the biochemical mechanisms of action, the innovative techniques used in peptide synthesis and modification, and advancements in drug formulation. Furthermore, the SI will highlight recent breakthroughs in the clinical translation of venom peptides, showcasing case studies where these compounds have successfully been developed into effective treatments for conditions such as cancer, pain management, and autoimmune diseases. By bringing together contributions from leading researchers in the field, our goal is to foster a comprehensive understanding of the therapeutic potential of venom peptides while addressing the challenges of their development.

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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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