Special Issue

Drug Discovery from Animal Venoms

Message from the Guest Editor

This Special Issue will review the full scope of drug discovery pathways, from venom gland to clinical use, with a focus on the advantages and opportunities, as well as challenges and limitations unique to components of animal venoms. Articles may include, but are not restricted to the following subjects: what makes animal toxins attractive templates for medicines?; current medicines and diagnostics from toxins; large-scale identification of toxins; therapeutic target identification and validation by toxins; from venoms to hits and leads: approaches and platforms; the challenges and solutions of lead optimization and preclinical development that are unique to toxin-like peptides and proteins; peptidomimetics; peptides, biologics as therapeutics; toxin-derived agents currently in clinical trials; case study: the discovery and development of an approved toxin-based drug; the future: a thought-provoking look at the potential of toxins in biomedicine and bioengineering as impacted by other natural science disciplines, disruptive technologies, from genome editing to AI, to nanorobotics, and beyond.

Guest Editor

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Deadline for manuscript submissions

closed (1 March 2021)

Toxins

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/49540

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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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