Special Issue

Next-Generation Antivenoms: Discovery, Development, and Manufacturability

Message from the Guest Editors

The dire scarcity of efficacious and affordable antivenoms necessitates a significant overhaul in how we approach envenoming therapeutics. A key paradigm shift lies in the change of focus from plasma-derived antivenoms to targeted therapeutic molecules neutralizing (only) medically relevant toxins. Indeed, recent advances have investigated therapeutic molecules, which are either inherently broadly specific against certain toxin (sub-)families (e.g., some enzymatic inhibitors) or scaffold molecules, which can be easily adapted to neutralize multiple targets (e.g., antibodies or similar scaffold proteins). The focus of this Special Issue of *Toxins* will be on next-generation antivenoms. This includes novel screening approaches, in vitro functional assays, the discovery of new toxin binders and neutralizers, innovative strategies towards the production of antitoxins, and bioinformatic tools to aid these processes

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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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