Drug Discovery from Animal Venoms

Guest Editor:

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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.

Special Issue

Editor-in-Chief

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Message from the Editor-in-Chief

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