Proteomics Analysis in Animal Venom

Guest Editor:

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Deadline for manuscript submissions:
closed (31 March 2021)

Message from the Guest Editor

A basic issue for animals is how to win-out survival competitions by balancing trade-offs and trait modifications necessary for predation and those intended for defence. Venomous animals can use toxins to mediate both key processes, might be expected to alter venom composition. Our understanding of the dual-purpose nature of toxin chemistry has significantly expanded over recent years because of improvements *in* modern instrumentation that supports large-scale measurement of venom proteomes. In this Special Issue, manuscripts that describe proteomics approaches offering critical insights into the following themes are especially welcome:

- Comparative study of toxins in poorly studied venomous animals.
- Adaptiveplasticity in venom composition related to animal behaviour or ecology.
- Integrating de novo peptide sequencing with annotation methods to assign the sequence to tandem mass spectra that are routinely discarded.
- Informatics methods to extract biological value from sequences by linkage to multiple biological, chemical and literature resources.
- Pharmaceutical discovery of novel therapeutic peptides.

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Special Issue

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Message from the Editor-in-Chief

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