



Neurotoxic Effects of Animal Venoms: Molecular Mechanisms and Prevention

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Message from the Guest Editor

Dear Colleagues,

Animal venoms contain components that affect various stages of nerve impulse transduction, including the release of the neurotransmitter, its interaction with the receptor, signal transmission in the nerve fiber, and other stages. Some mechanisms of neurotoxic action are well described, e.g., the interaction of snake postsynaptic neurotoxins with nicotinic acetylcholine receptors. However, not all the details of the interaction have been elucidated. Other mechanisms are not as clear and require more detailed study. Currently, the standard treatment for animal envenoming is antivenom therapy. However, a huge number of neurotoxins are small proteins or peptides, which creates problems in obtaining anti-serum. In this Special Issue, we plan to consider the structures of new neurotoxins and their biological targets, the mechanisms of interaction of neurotoxins with targets, possible ways to prevent the neurotoxic effects of animal venoms, and the molecular mechanisms of such anti-neurotoxic effects. Original articles, reviews, comments, etc. on various aspects of the neurotoxic effects of animal venoms are invited.





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Message from the Editor-in-Chief

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