Special Issue

Application of Venom Phospholipase in the Treatment of Diseases

Message from the Guest Editor

Venom phospholipases consist of hydrolase classes that catalyze the hydrolysis of acyl esters and phosphate esters on phospholipids. The phospholipases A2s are among the most studied ones, as they have been known for over a century from research on snake and bee venom, and many mechanistic studies have been carried out on their numerous isoforms. Besides phospholipase A2 of snake and bee venom, many kinds of phospholipases have been identified in venoms. For example, the venoms of Australian elapid snake, cobra, and brown spider contain phospholipase B, C, and D, respectively. Phospholipase-like proteins with toxic properties, yet which lack a functional catalytic site, are also found in venoms. Phospholipases, major digestive enzymes present in venoms, play a critical role in many physiological processes including the generation and aggregation of numerous signaling lipids. In addition, they seem to affect various diseases in some manner. This Special Issue aims to provide a comprehensive view on venom phospholipases, including their characterization, function, and mechanism of action in the treatment of various diseases.

Guest Editor

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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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