



toxins



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Bee Venom and Its Sub-Components: Characterization, Pharmacology, and Therapeutics

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Message from the Guest Editor

Dear Colleagues,

Bee venom has been reported to be efficient against various diseases, including neuropathic pain, progressive muscle atrophy, idiopathic Parkinson's disease, and cancer in humans and animals. However, despite its ability to treat these diseases, its mechanism of action remains poorly understood.

Thus, this Special Issue of *Toxins* is devoted to understanding the mechanisms of action of bee venom and its sub-components (i.e., apamin, melittin, Phospholipase A2, etc.). We welcome all research that is focused on the characterization, pharmacology, and therapeutics of bee venom and its sub-components. Topics of interest include, but are not limited to: bee venom acupuncture; cancers; pain, including neuropathic pain, immune modulation, and action on the central and peripheral nervous system; and various receptors and ion channels.

Prof. Dr. Woojin Kim

Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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