

## Special Issue

# Molecular Toxicity and Therapeutic Potential of Hymenoptera Venoms

### Message from the Guest Editor

Hymenoptera venoms (from bees, wasps, ants, and other stinging insects) are complex cocktails of bioactive molecules. While primarily known for their ability to cause pain, inflammation, and, in sensitive individuals, severe allergic reactions, these venoms are also a vast and underexplored reservoir of compounds with remarkable pharmacological potential. This Special Issue aims to comprehensively explore the dual nature of Hymenoptera venoms at the molecular level. We invite original research articles and reviews that delve into the mechanisms of venom toxicity, including the molecular basis of allergenic responses, cytotoxicity, and neurotoxicity. Concurrently, we encourage submissions that investigate the therapeutic applications of venom components, such as their antimicrobial, anticancer, or immunomodulatory properties, and their use as templates for novel drug design. By bridging the gap between toxinology and biomedicine, this Issue seeks to provide a holistic understanding of these fascinating natural products, fostering new research avenues for both managing envenomation and harnessing venom components for human health.

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### Guest Editor

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### Deadline for manuscript submissions

31 August 2026



## International Journal of Molecular Sciences

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