



Advances in Venom Immunology and Allergy

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Message from the Guest Editors

Allergy to Hymenoptera venom is a life-threatening condition, often going underdiagnosed because of the general population's poor knowledge concerning the condition and many sanitary actors. It has been established that IgE-mediated hypersensitivity is triggered by allergenic proteins in the venom of social bees and wasps, resulting in the massive liberation of acute inflammatory mediators. These produce an increased capillary permeability, extravasation and other damage.

In recent years, some allergenic proteins from *Apis mellifera*, *Bombus Terrestris*, and some species of wasps belonging to *Vespula*, *Vespa*, *Dolichovespula* and *Polistes* genera have been characterized. A variable degree of molecular similarities among proteins could be responsible for the cross-reactivity and presence of glycosylated radicals. Up till now, the most critical risk factor for developing an allergy to Hymenoptera venom appeared to be the high degree of exposure of people working in beekeeping, trucking and farming, in addition to people frequent performing outdoor activities. Venom immunotherapy is the only way to redirect the failure of immune tolerance underlying venom-allergic individuals.





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Message from the Editor-in-Chief

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