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## APPROACHES OF WASPS VENOM AS THERAPEUTIC SOURCE TOOLS OF DISEASES TREATMENT

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Insects make up the largest and most diverse group of organisms on earth. Like all other organisms, insects and related arthropods mainly utilize chemistry to adapt to these environments in a wide variety of ways, such as for defense against predation. Among the arthropods that produce pharmacologically active molecules are capable of interfering in human cellular physiology such as scorpions, bees, wasps, spiders, ants and caterpillars. The substances found in the wasp's venom present great potential as anti-disease agents. Wasps are arthropods whose stings cause severe pain and tissue damage and may even cause death of a great number of vertebrates, including humans. These arthropods bear a complex gland responsible for the production and injection of venom, which exhibits physiological, pharmacological and biochemical activities, playing a role in a variety of survival mechanisms such as defense against predators and prey capture, among others. Progress in the field has advanced rapidly and this comprehensive review summarizes the enormous potential for discovery of new natural bioactive products with medicinal value from wasps. In this respect, the present study reviews our current understanding of the action and future prospects regarding the use of new drugs derived from wasps in the treatment of mice parasitic disease.

## BIOGRAPHY

Mamdouh Nassar was born in Cairo. He graduated a Bachelor's Degree from Biology (zoology, botany, and toxicology) Department, Faculty of Science, Cairo University. received his MSc Degree in from the same University. PhD degree (channel system) between University of Maryland College Park (USA) and Cairo University. He had many studies for field of sleeping sickness and malaria diseases of vectors stomoxys calcitrans and anopheles in USA Florida, jazan and jeda. staff member program (visitor exchange), University of Maryland College Park, USA. He is a professor of biological sciences at Cairo University, King Abd-Alziz, University Jazan and King Khalid Universities. He was worked at laboratory staff, for dietary microbiology at environmental system service, Beltsville, USA. He was also consultant advisor at Home care company and Al-nasr chemicals company.

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