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Influence of bee venom as immunostimulant activity

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The objective of this review was to determine the influence of bee venom (BV) as immunostimulant activity and the immunomodulatory activity of BV on cytokines production. Bee venom acts upon both innate and adaptive immune response. Compounds in bee venom decrease proinflammatory cytokine synthesis (IL-2, IL-12 and IL-4), inactivate both the classical and alternative complement pathway and decrease superoxide anion production in neutrophils. It could be concluded that time and dose-dependent response as well as the type of treated cell line could determine the immunosuppressive and/or immunostimulant property of bee venom that could be effective in future therapeutic strategies.

Biography

Ahmed G Hegazi is currently a Professor of Microbiology and Immunology in the National Research Center, Egypt. He has received his Master's degree in 1979 and his PhD in 1981. He has been the Principal Investigator on multiple research projects within the National Research Center. He has published 211 scientific papers and articles in national and international journals. He has served on the board of multiple national and international scientific journals. He is also the President of the Egyptian Environmental Society for Uses and Production of Bee Products, Secretary of the Egyptian Society of Apitherapy, Secretary General of the African Federation of Apiculture Associations and a Member of the International Apitherapy Commission (APIMONDIA). He has received several awards which include First Class Decoration of Excellence (1995), The Senior Scientist Prize of National Research Center, (1996), The National Scientific Prize In Biological Sciences (1990), The Scientific Prize of The National Research Center (1989), 2 Bronze Medals from The International Innovation Fair of the Middle East, Kuwait (2007), awarded Ghazi Wad Allah Salon Prize (2008) and has 4 patents to his credit.

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