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Egyptian propolis 12: Influence of propolis on cytokines of *Toxoplasma gondii* infected rats

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This study was conducted to investigate the influence of propolis on immunological responses with special reference to cytokine level of infected with *Toxoplasma gondii* and treated with and then the inoculation with 0.1 ml propolis everyday till the end of the experiment (28 days). Immune response of rats was evaluated weekly. Cytokines were detected. The results revealed that the growth promoting effect propolis extract. It was clear that the propolis treated group showed the highest lymphoid organ weight all over the experimental period. Propolis was the highest in the *Toxoplasma* antibodies titer when comparing with control group from the 2nd week to the end of experiment. Serum levels of cytokines were consistently higher in the treated and propolis infected rats compared with controls. Serum levels of IFN- γ , IL-1 and IL-6, were elevated only at day 7 post-infection.

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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