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Influence of honey in mice bearing Ehrlich carcinoma on immune status

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Antitumor effect of coriander honey (500 mg/kg) was investigated in mature mice bearing Ehrlich carcinoma with special reference to immune status. The coriander honey showed decrease in tumor volume, packed cell volume and viable cell count, and increased the non-viable cell count and mean survival time thereby increasing life span of EAC tumor bearing mice. The results of the effect of honey on immunological status in the mice bearing Ehrlich carcinoma observed that the immunoglobulin levels (M, G and A) were raised in all groups if compared with the control group all over the experimental period. The rises were differed according to the treatment. It was clear that the phagocytic activity in mice bearing carcinoma was reduced if compared with the control group while it increased in the treated group with honey. There was reduction in the stimulation indices of lymphocyte transformation of mice bearing Ehrlich carcinoma. Delayed hypersensitivity skin test revealed that the Ehrlich carcinoma reduced the reaction especially after 72 hours post inoculation with bovine serum albumin. The reaction in the Ehrlich carcinoma and subsequently treated with honey showed a rise in thickness ranging from 0.62 mm skin thickness in case of Ascites where the solid state was more higher 0.73 mm thickness. It could be concluded that, the coriander honey exhibited antitumor effect by increases cell mediated and immunoglobulin levels, in EAC bearing mice.

Biography

Ahmed G Hegazi Awarded the Excellent Medal of the First Class, 1995 • Received the Senior Scientist Prize of National Research Center, 1996 • Received the National Scientific Prize In Biological Sciences, 1990 • Received the Scientific Prize of The National Research Center, 1989 • Won The Second Best Research Paper award From International Congress of propolis, Argentina, 2000 • Mean speaker in 10th Academic conference, 2006, Japan • From Wikipedia, Awarded 2 Bronze medals from "The International Innovation Fair of the Middle East", 2007, Kuwait. Prof. of Microbiology & Immunology, National Research Center National Research Center, Dept. Parasitology, 1997-2000, Chair • Faculty of Medicine, Zagazig University, 1981-1997, Part-time Prof. and Supervisor on Immunology Section • National Research Center, 1990- up till now, Prof. of Microbiology & Immunology • African Federation of Apiculture Associations (AFAA), 2001- up till now, • Standing Commission on Apitherapy (APIMONDIA), 1999 - up till now, Member • Standing Scientific Committee, National Research Center, 1998 -up till now, • First, Second and Third Annual Conference of the Egyptian Association of Immunologists 1993, 1994 and 1996, Secretary General • Egyptian Journal of Immunology, 1995, Editorial Board • The Egyptian Association of Immunologists, 1992 -1997, Secretary General • Referee in 37 International Journals Patents: 4 Patents Educational Activities • Organized training courses on Immunology, National Research Center, 1987-2002 • Conducted training courses on Immunology, Faculty of Medicine, Zagazig University, 1981-1997 • Supervised the Immunology lab, Faculty of Medicine, Zagazig University, 1981-1997 The publications: • 204 articles in national and international scientific journals • 6 books in English language • 7 books in Arabic language

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