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Education:

Graduation- BSc, Biology, Dept. of Zoology, University of Basel, Switzerland (1967-1972)

PhD thesis – Dept. of Zoology, University of Basel, and Dept. of Dermatology, Basel University Hospital, Switzerland (1972-1975)

Employment History:

1985-present: Research Fellow, Dept. of Parasitology, Hadassah Medical School, Jerusalem, Israel

2004-present: Adjunct Professor of Parasitology at the Cumhuriyet University, Sivas, Turkey

2006-present: Associated Professor of Parasitology, Turkey





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Research Interests:

- ❑Biology and epidemiology and vectorial capacity of insects, mites and ticks of medical and veterinary importance: House dust mites, Demodex, Scabies, human lice, bed bugs, midges and fleas, as well as hard and soft ticks
- ❑Biotherapy: The use of maggots for the treatment of chronic wounds and of leeches in the treatment of transplants

Scientific Collaborations:

Terri Meinking, Global Health Associates of Miami, Miami, FL, USA (Blood-feeding in lice) (2006)

Michael L. Levin, Rickettsial Zoonoses Branch, Centers for Disease Control and Prevention, Atlanta, GA, USA (Vectorial capacity of *Rhipicephalus sanguineus*) (2006)

Oleg E. Akilov, Department of Biological Sciences, University of Notre Dame, 202 Galvin Life Science, Notre Dame, IN 46556, USA (Immunology of *Demodex* infestation) (2001)

Aysegul Taylan-Ozkan, Communicable Disease Research Center, Refik Saydam National Hygiene Institute, Ankara, Turkey (Maggot debridement therapy) (1999)

Ronald Sherman, President, BTER Foundation, Irvine, CA, USA (1998)



Recent Publications (out of more than 250 published or in press):

- Mumcuoglu, K.Y. 2013. The vectorial capacity of human lice: *Pediculus humanus* and *Pthirus pubis*. Ankara Üniv. Vet. Fak. Derg., 60, 269-273.
- Kamani J, G. Baneth, KY Mumcuoglu, NE Waziri, O Eyal, Y Guthmann, S Harrus. 2013. Molecular detection and characterization of tick-borne pathogens in dogs and ticks from Nigeria. PLoS NTDs (<http://www.plosntds.org/article/info%3Adoi%2F10.1371%2Fjournal.pntd.0002108>).
- Kleinerman G, Baneth G, Mumcuoglu KY, van Straten M, Berlin D, Apanaskevich DA, Abdeen Z, Nasereddin A, Harrus S. 2013. Molecular detection of *Rickettsia africae*, *Rickettsia aeschlimannii* and *Rickettsia sibirica mongolitimonae* in camels and *Hyalomma* spp. ticks from Israel. Vector-borne Zoonotic Dis. 13: 1-6. DOI: 10.1089/vbz.2013.1330
- Sherman, R.A., K.Y. Mumcuoglu, M. Grassberger & T.I. Tantawi. 2013. Maggot Therapy. In: Grassberger, M., R.A. Sherman, O. Gileva, C.M.H. Kim & K. Y. Mumcuoglu (Eds). Biotherapy - History, Principles and Practice: A Practical Guide to the Diagnosis and Treatment of Disease using Living Organisms. Springer Pub., Heidelberg, pp. 5-29.
- Gileva, O.S. & K.Y. Mumcuoglu. 2013. Hirudotherapy. In: Grassberger, M., R.A. Sherman, O. Gileva, C.M.H. Kim & K. Y. Mumcuoglu (Eds). 2013. Biotherapy - History, Principles and Practice: A Practical Guide to the Diagnosis and Treatment of Disease using Living Organisms. Springer Pub., Heidelberg, pp. 31-76. Kamani, J, Morick D, Mumcuoglu KY, Harrus S. 2013. Prevalence and diversity of Bartonella species in commensal rodents and ectoparasites from Nigeria, West Africa. PLoS Neg Trop Dis 7 (5): e2246. doi:10.1371/journal.pntd.0002246.



Brief Account on House Dust Mites

Kosta Y. Mumcuoglu





Overview

- The house dust mite has been associated with a range of respiratory and dermatological allergies such as asthma, rhinitis and eczema
- Mites are nourished with skin scales, while the main mite allergens are shed with the faeces
- Beds (mainly mattresses), carpets and upholstered furniture are the main biotopes of mites



Symptoms

- Wheezing
- Coughing
- Breathlessness
- A tight feeling in the chest
- Runny nose
- Itchy nose
- Itchy eyes
- Itchy skin
- Skin rashes





Diagnosis

- Allergy testing can find out whether house dust mites trigger your respiratory or dermatological symptoms. See your doctor for further information and advice
- If tests show that you are allergic to house dust mites, there are ways to reduce the quantity of mite allergens in you environment and the response of your immune system



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