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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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