



**EIGHTH INTERNATIONAL
CONGRESS OF PARASITOLOGY**

**October 10-14, 1994
İzmir-TURKEY**

ABSTRACTS VOLUME - II

Editors in Chief : M. Ali Özcel
M. Ziya Alkan

Editorial board:

Nazmiye Altıntaş	Yusuf Özbel
Mucide Ak	Nevin Turgay
Nilgün Daldal	Metin Korkmaz
Ahmet Üner	Metin Atambay
Yüksel Gürüz	Seray Özensoy

1994

Turkish Society for Parasitology

BRONCHIAL ASTHMA IN MAN BY DERMATOPHAGOIDES FARINAE IN A TENEBRIO MOLITOR REARING IN UMBRIA

* Principato M., **Camerlengo L.

*Institute of Parasitology, Fac. of Veterinary Medicine, via S. Costanzo 4,06100 Perugia, Italy. ** Veterinary surgeon.

Dermatophagoides farinae is a mite that is frequently present in house dust and in stored foodstuffs as flour and bran. Its development depends strictly on the humidity and temperature conditions, and also on the degree of conservation of the substrate. The case reported herein concerns the infestation by D. farinae of n. 140 boxes where Tenebrio molitor larvae were reared for being sold as fishing-baits. The whole production had been obtained over a three years' period, through subsequent transfers of the material from one box to another. The substrate was represented by bran and by a great quantity of feces produced by the beetles. The development temperature was 21°C and 80 RH. In the third year of production, in the height of autumn, while the owner was filtrating the substrate to collect the larvae for sale, he suddenly felt asthmatic respiratory difficulties, characterized by a slow and deep breathing in and by a violent and long expiration. Such a symptomatology was showed not only by the staff encharged with the breeding, but also by those people who had bought the larvae isolated from the beetles. The greatest number of D. farinae was removed from the feces under the bran (8 adults/gr.) with a male to females ratio 1:3. It was not possible to reclaim the rearing, since the elimination of bran by filtration was of no help in depriving T. molitor larvae of their allergic capacity. It was therefore necessary to interrupt the production, taking out all larvae and washing and disinfecting the boxes and the environment before starting again a new rearing.