

# VIII European Multicolloquium of Parasitology

10-14 September 2000, Poznań, Poland

## European Federation of Parasitologists

President: O. Halvorsen (Norway)

Vice-Presidents:

S. Mas-Coma (Spain),

F. H. M. Borgsteede (The Netherlands)

Secretary: N. Altintas (Turkey)

Treasurer: C. Arme (United Kingdom)

Members: C. Genchi (Italy),

J. Čorba (Slovakia),

T. Pojmańska (Poland)

## Polish Parasitological Society

President: H. Wędrychowicz

Vice-Presidents:

K. Boczoń,

E. Lonc,

B. Moskwa

Secretary: A. Rocka

Treasurer: M. Waloch

## EMOP VIII Organising Committee:

President: Z. Pawłowski

Vice-Presidents: K. Boczoń, T. Mazur

Secretaries: E. Hadaś, J. Stefaniak, H. Mizgajska

Treasurer: I. Andrzejewska

Members: M. Derda, L. Gustowska, E. Kacprzak, P. Nowosad,

M. Paul, P. Sulima, E. Wandurska-Nowak,

H. Wędrychowicz - President of the Polish Parasitological Society

K. Niewiadomska - Past-president of the Polish Parasitological Society

Library: A. Piotrowicz, P. Krzyżaniak

**Guest editor: P. Nowosad**

## F.2. DRUG RESISTANCE AND NEW APPROACH TO CONTROL OF PARASITIC INFECTIONS OF VETERINARY IMPORTANCE

**F2 01**

### The extraction of nematophagous fungi, potential agents of biological control of parasitic nematodes, from pasture soil in Poland and Ukraine

T. Kuzmina, J. Gawor

*National Academy of Sciences of Ukraine, Kiev, Ukraine; \*Polish Academy of Sciences, Warsaw, Poland*

The aim of investigation was to extract the predacious fungi from soil of wild and domestic ungulate pastures of Poland and Ukraine for their further investigation as agents of biological control of parasitic nematodes.

The investigation was carried out on pastures of wild and domestic ungulates in Poland and Ukraine in various climatic regions. 272 soil and faecal samples were collected, from which 170 samples were from Poland and 102 samples from Ukraine. The extraction of predacious fungi was carried out on 2.4% water agar with 0.02% tetracycline added and suspension of stronglyid larvae in sterile water used as the bait. The fungi extracted were seed out on potato-agar medium. The evaluation of nematophagous activity of fungi extracted was carried out following Akulin's (1969) method.

**Results:** The predacious fungi were revealed from 61 samples - 29 samples from Poland and 32 samples from Ukraine. All fungal strains extracted belonged to 10 species of 4 genera: *Artrobotrys* Corda, *Dactylaropsis* Mecht., *Duddingtonia* Cook and *Monacrosporium* Ouden. The nematophagous activity of extracted fungi was from 34% to 82.25% stronglyid larvae captured during 2 days. 16 fungal strains with the highest nematophagous activity were selected for further studies on their suitability as biological control agents of parasitic nematodes of domestic animals and plants.