The nematode community in roe deer (*Capreolus capreolus*) from southern Poland

Jerzy Kowal¹, Paweł Nosal¹, Sławomir Kornaś¹, Marta Basiaga¹, Marek Wajdzik², Maciej Lesiak³, Dominika Cywicka⁴

¹Department of Environmental Zoology, Institute of Animal Sciences, University of Agriculture in Krakow, al. Mickiewicza 24/28, 30-059 Krakow, Poland
²Department of Forest Biodiversity, Institute of Forest Ecology and Silviculture, University of Agriculture in Krakow, al. 29-Listopada 54, 31-425 Krakow, Poland
³KABAN Company Maciej Lesiak, Osiedle Przy Arce 22/24, 31-846, Krakow, Poland
⁴Department of Cattle Breeding, Institute of Animal Sciences, University of Agriculture in Krakow, al. Mickiewicza 24/28, 30-059 Krakow, Poland

Corresponding Author: Jerzy Kowal; e-mail: j.kowal@ur.krakow.pl

The aim of the study was to make a qualitative and quantitative comparison of infracommunities in roe deer originating from environmentally distinct hunting areas (i.e. forest, mountain and arable land). The analyzed parasitic nematode community was composed of samples of gastro-intestinal nematodes (21 species) obtained from 80 individuals collected during four hunting seasons (from 2008 to 2015). Statistical comparisons were made using cluster analysis (Kohonen map and Ward’s method). According to the used method, three to five homogeneous groups were separated. The most numerous group included 52 roe deer; however, the strongest relationship was observed in group created from infracommunities with high level of infection with *Haemonchus contortus* and *Ashworthius sidemi*. No influence of the particular environments on analyzed groups was observed.

The obtained results suggest that the parasitic nematode infracommunities observed in roe deer generally tend to be stable. On the other hand, intensive infections of some pathogenic and alien invasive species (i.e. *Haemochus contortus* and *Ashworthius sidemi*) may disrupt this stability.

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