

SEKCIJA ZA ZOONOZE  
SRPSKO VETERINARSKO DRUŠTVO  
VETERINARSKI SPECIJALISTIČKI INSTITUT "PANČEVO"



**XIX SIMPOZIJUM EPIZOOTIOLOGA I  
EPIDEMIOLOGA**

**(XIX Epizootički dani)**

**- DRUGO OBAVEŠTENJE -**

**- PROGRAM -**



**Hotel "SRBIJA" - Vršac  
05 - 07. april 2017. god.**

## **ORGANIZATOR**

SEKCIJA ZA ZOONOZE SVD-a  
VETERINARSKI SPECIJALISTIČKI INSTITUT "PANČEVO"

## **SUORGANIZATORI i POKROVITELJI**

MINISTARSTVO POLJOPRIVREDE I ZAŠTITE ŽIVOTNE SREDINE  
UPRAVA ZA VETERINU

## **SPONZORI I PRIJATELJI SIMPOZIJUMA**

Ekosan; Alfa Genetics d.o.o.; NOACK & Co South East d.o.o.; Veterinarski Zavod Subotica a.d.;  
Fish Corp 2000 d.o.o.; Provet d.o.o.; Promedia d.o.o.; UVVPS; Krka farma d.o.o.; Greenlab d.o.o.; Kor-Vet Team

## **ORGANIZACIONI ODBOR**

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prof. dr Milorad Mirilović

**Tehnički sekretari:** Aleksandar Bajčić, dr vet med i Katarina Vulović, dr vet med

## **PROGRAMSKI I NAUČNI ODBOR**

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## HAEMOSPORIDIAN BLOOD PARASITES IN WILD PASSERINE BIRDS IN SERBIA

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Diversity and prevalence of Haemosporidian blood microorganisms in wild birds are rather well studied across Western Europe from Sweden to Spain, while little has been known about the distribution and the ecology of avian blood parasites across the Balkan Peninsula. Contemporary data were published for Bulgaria but researches on avian malaria have never been conducted before in Serbia. The prevalence and intensity of avian haemosporidian infection were investigated by using microscopy. To examine genetic diversity of cytochrome b lineages from blood parasites of genera *Plasmodium*, *Haemoproteus* and *Leucocytozoon* we used a nested PCR protocol. In total 150 passerine birds of 43 species and 15 families were examined for the presence of infection. Birds caught by mist were ringed and sampled for a small drop of blood during the breeding season in 2011, 2013 and 2016 at five different localities in the Republic of Serbia. Out of 150 birds, 58 were recognized as infected with haemosporidian species. The overall prevalence of haemosporidian was 38.6 %. We recorded one mixed infection. The most common parasite genus was *Haemoproteus*, recorded in 35 birds. We identified 32 lineages of haemosporidian parasites: 16 of *Haemoproteus*, 8 of *Plasmodium* and 8 of *Leucocytozoon*. Differences between juvenile and adult were found, but there was also a difference between males and females (32 males from eleven species were infected in regards to 10 females from seven species). The composition of parasites varied geographically.

Key words: birds, parasites, haemosporidian, prevalence, malaria