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CZGA 2011 PROGRAMME

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Registration

08:50-09:00
Dumitru MURARIU - Welcome and greetings

09:00-09:30
Dumitru MURARIU, Ona Paula POPA, Irinel E. POPESCU - In memoriam - Academician Nicolae Botnarici, Senior researcher Teodor T. Nalbant, Professor Dr. Constantin Piașcic, Dr. Alexandrina Negrea

Invited speakers

09:30-10:15
Octavian POPESCU - Glycan systems – an evolutionary perspective

10:15-11:00
Ioan COROIU - Bat overground shelters in Transylvania (Romania)

11:00-11:30
Coffee break

Invited speaker

11:30-12:15
Boris KVITŮF - Process and pattern in small mammal diversity in the Balkan glacial refugium

Taxonomy, Faunistics, Zoogeography

Chair: Dumitru MURARIU (Bucharest, Romania)

12:15-12:30
Lamiaţa BEJENARU, Simina STANC, Mariana POPOVICI - Archaeological perspective on Neolithic migrations in Eastern and South-Eastern Romania

12:30-12:45
Darko RADMANOVIĆ, Jelena LUŽIĆ, Desanka KOSTIĆ, Svetlana BLAŽIĆ - Fauna diversity of archaeological sites in Vojvodina (Serbia)

12:45-13:00
Marius SKOLKA, Dan COGĂLNICEANU, Laurenţiu ROZYLOWICZ, Gabriel BĂNICĂ, Anca DRAGU, Marian TUDOR, Cristina FREDA, Memedemia DANYIAR - Fauna of Jiu Gorges National Park

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Preliminary considerations regarding Carassius interspecific variability using COX I DNA Barcoding Gene

Lucian GORGAN, Ana-Maria STRATULAT, Andrei ŞTEFAN, Mihaela IONESCU, Monica LUCA

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Key words: Carassius carassius, C. gibelio, COX I.

Globalisation and river basins connections have facilitated one of the least reversible human-induced global changes: the homogenisation of the Earth’s life forms through the establishment and spread of non-indigenous species. For the territory of Thrace, the main route for alien freshwater fish immigration seems to lead from Greece and Bulgaria via River Meric, but also by stocking of foreign fish.

In Europe, three species of the genus Carassius Nilsson, 1832 are known: the Goldfish, Carassius auratus (Linnaeus, 1758), the Crucian carp, C. carassius (Linnaeus, 1758) and the Prussian (Gibel) Carp, C. gibelio (Bloch, 1782). Only C. carassius is considered a native species of the British Isles, Central and Eastern Europe. The natural distribution of C. gibelio is still under discussion and it might be native to northern Europe (Kotetall, 1997). It is widespread in Central and Eastern Europe and the Balkans, but recorded in Thrace just in 1988 in Lake Gala.

The aim of this study is to identify the interspecific variability in Carassius genus, by cytochrome oxidase’s first subunit DNA sequencing.

The sampling process refers to three species Carassius, C. auratus and C. gibelio and also to individuals which were identified as hybrids on morphological aspects. Tissue samples (dorsal muscle and fin-clippings) were stored in 98% ethanol for DNA isolation and purification, performed by the phenol-chloroform/isopropanol alcohol (25:24:1) protocol. The total DNA was resuspended in 50μl Tris-EDTA and was quantitatively and qualitatively determined by spectrophotometry and electrophoresis in 1% agarose gel stained with ethidium bromide and visualised under UV light.

PCR was performed in a 25 μl reaction volume containing GoTaq Green Master Mix (Promega), direct and reverse primers, DNA and nuclease free water to 25 μl. The sequencing reaction was performed using the Beckman Coulter CEQ 8000 Genetic Analysis System. Sequence analysis revealed 16 haplotypes, which indicate a 37.20% variability.

Blood parasites of free living European bison (Bison bonasus) from Poland

Joanna WERSZKO, Anna PYZIEL, Grzegorz KARBOWIAK, Irena WITA, Aleksander DEMIAZKIEWICZ

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Key words: Bison bonasus, Trypanosoma, microfilaria, parasite.

The North-Eastern part of Poland is an area of high risk of zoonotic diseases infections of human and domestic animals. The wild ruminants play an important role in the transmission and maintenance of parasites in natural foci. The aim of our study was to determine the prevalence of blood parasites infection of European bison in free-living population in Białowieża Primeval Forests.

The European bison from Białowieża Primeval Forest (North-East part of Poland) were studied for the blood parasites. The blood samples were collected in years 2007 - 2010. In total, the samples from 125 European bison were examined. The infections with blood parasites were diagnosed using direct microscopic examination of blood smears stained with Giemsa or Hemacolor (Merck) set and centrifugation in microhematocrit tubes.

Using the microhematocrit centrifugation technique, there were detected the following species of blood parasites: Trypanosoma (Megatrypanum) wrublewskii, microfilariae of Onchoerca lienis, Onchoerca gutturosa and Setaria labiato papillosa. The prevalence of infection with T. wrublewskii was 14.4%, O. linealis 17.8%, O. gutturosa 7.2%, S. labiato papillosa 19.2% respectively. Using the blood smears technique, blood parasites were not detected.

Trypanosoma (Mega trypanum) wrublewskii and microfilariae are the most common blood parasites of free-living European bison. Moreover, the level of infection is enough to make possible the detection using traditional microscopic technique. Apart the parasites described above, European bison are the hosts of Babesia divergens and Anaplasm phagocytophilum. The infections with these parasites were detected previously by PCR methods and the prevalence was 33.0% and 62.5% respectively (Karbowski et al., 2004; Grzeszczyk et al., 2004). The absence of these parasites on the blood smears indicate the low level of infection intensity, below the microscopic techniques sensitivity.

References:


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