

SCIENTIFIC PROGRAMME

International Conference on Zoology and Zoonoses

October 26-28, 2016, Hissar, Bulgaria

Wednesday, 26 October 2016

14.00 – 18.00 Arrival, registration, posters set up. SPA Hotel “Hissar”.

18.30 – Welcome cocktail at the Lobby bar, SPA Hotel “Hissar”.

Thursday, 27 October 2016

8.00 – 9.00 Registration

9.00 – 9.45 **Opening.** Maritsa hall in SPA Hotel “Hissar”

9.45 – 10.15 **Plenary lecture:** When the Balkans resembled Africa. **Professor DSc Dimitar Ivanov, BAS, Sofia.**

10.15 – 10.45 **Plenary lecture:** Southeast European Center for Infectious Diseases Control – a success story of countries collaboration. **Teita Myrseli** – representative of SECID, Tirana

10.45 – 11.00 **Coffee-break**

POPULATION GENETICS AND MOLECULAR BIOLOGY

(Trakiya hall)

Session chair: Professor DSc Paraskeva Mihaylova

Session secretary: Assist. prof. Dr. Peter Boyadzhiev

11.00 – 11.15 Possibilities for discrimination of Bulgarian honey bees based on different genetic markers. **E. Ivanova**

11.15 – 11.30 Application of DNA barcoding in *Eurygaster integriceps* specimens to determine intraspecific genetic variation. **E. Kocak**

BIODIVERSITY, ECOLOGY AND CONSERVATION ZOOLOGY

(Trakiya hall)

Session chair: DSc Professor Georgi Markov

Session secretary: Assist. prof. Dr. Vesela Mitkovska

11.30 – 11.45 *Ex situ* effects of priority substances on the lysosomal membrane stability and respiration rate in zebra mussel (*Dreissena polymorpha*) 1. Heavy metals. **V. Yancheva**

11.45 – 12.00 *Ex situ* effects of priority substances on the lysosomal membrane stability and respiration rate in zebra mussel (*Dreissena polymorpha*) 2. Pesticides. **V. Yancheva**

12.00 – 12.15 New data on fungus gnats (Diptera: Bolitophilidae, Keroplatidae and Mycetophilidae) in Bulgaria, Greece and Turkey. **A. Pavlova**

12.15 – 12.30 First record of the relict *Pentacyphona* stat. nov. in the Palearctic area (Diptera, Pediciidae) with discussion on relationship with their kin. **L. Kolcsár**

12.30 – 12.45 Bacteria associated with *Rhagoletis cerasi* (Diptera: Tephritidae). **A. Tuncbilek**

ONE HEALTH (Maritsa hall)

Session chair: Professor DSc Iva Christova

Session secretary: Assoc. prof. Dr. Todorka Yankovska-Stefanova

11.00 – 11.30 Public Health challenges. **MD. Angel Kunchev**, Chief State Health Inspector, Ministry of Health

11.30 – 13.00 Communicable diseases prevention and control in Europa: Avian Influenza. **MD. Cornelia Adlhoch**, Respiratory Diseases expert, ECDC, Stockholm, Sweden - presentation and discussion

13.00 – 14.00 Lunch, Restaurant SPA Hotel “Hissar”

BIODIVERSITY, ECOLOGY AND CONSERVATION ZOOLOGY

(Trakiya hall)

Session chair: Professor Dr. Roumiana Metcheva

Session secretary: Assist. prof. Miroslav Antov

14.00 – 14.15 Ichneumon wasps (Hymenoptera: Ichneumonidae) reared from tortrix moths (Lepidoptera: Tortricidae) in the oak forests in Sofia region, Bulgaria. **G. Zaemdzhikova**

14.15 – 14.30 Red List of Bulgarian bombyces and sphinges (Insecta: Lepidoptera) and their distribution in Bulgaria. **H. Hristova**

14.30 – 14.45 An assessment of a hypersaline lake: case study of Atanasovsko Lake, Bulgaria. **G. Gecheva**

14.45 – 15.00 Fish based method for water monitoring and ecological classification of natural lakes on the Bulgarian Danube floodplain. **L. Pehlivanov**

15.00 – 15.15 Health status of *Pelophylax ridibundus* (Amphibia: Ranidae) in a rice paddy ecosystem in southern Bulgaria: body condition factor and fluctuating asymmetry – Part 1. **A. Arnaudov**

15.15 – 15.30 Tracking methods for lesser kestrel (*Falco naumanni*) used in the course of the species' recovery as breeder in Bulgaria. **G. Gradev**

15.30 – 15.45 Ichneumonidae (Hymenoptera) fauna of Davraz Mountain in Isparta, Turkey. **O. Birol**

ONE HEALTH (Maritsa hall)

Session chairs: MD. Angel Kunchev, Prof. Dr. Todor Kantardjiev

Session secretary: Dr. Petya Petkova

14.00 – 14.15 Viral and bacterial zoonoses in humans (zooanthroponoses) with similar clinical manifestation. **I. Christova**

14.15 – 14.30 Anthrax – the old-new challenge. **A. Zdravkova**

14.30 – 14.45 Monitoring and control of influenza in birds in Bulgaria. **A. Miteva**

14.45 – 15.00 New cases of rabies in foxes in Bulgaria. **P. Kamenov**

15.00 – 15.15 Dynamics of echinococcosis in Bulgaria for the period 2011-2015 year. **I. Rainova,**

15.15 – 15.30 Brucellosis in sheep and goats (*Brucella melitensis*). **P. Dangov**

15.30 – 15.45 Realization of the programme for prophylactics, supervision and control of the West Nile fever in Bulgaria. **S. Chakarova**

15.45 – 16.00 Coffee-break

ONE HEALTH (Maritsa hall)

Session chair: Assoc. prof. Dr. Iskra Raynova

Session secretary: Assoc. prof. Dr. Atanas Arnaudov

16.00 – 16.15 Tuberculosis in large ruminants. **Y. Yordanov**

16.15 – 16.30 Ixodidae ticks in domestic ruminants in the Valley of Maritsa River in the Plovdiv region. **A. Arnaudov**

16.30 – 16.45 Supervision and control of salmonellosis in birds in Bulgaria. **S. Kolev**

16.45 – 17.00 Lumpy skin disease - new challenge for Europe. **A. Miteva**

17.00 – 17.15 Food explosion of salmonellosis in Varna – practical aspects. **K. Nikolov**

16.00 – 18.00 **Poster session**, Trakiya hall in SPA Hotel “Hissar”

19.30 – Conference dinner, Restaurant “Prestige” in SPA Hotel “Hissar”

Friday, 28 October 2016

(Maritsa hall)

9.00 – 9.15 Plenary lecture: Summarised review of the results from the 1959 complex expedition for investigating the natural outbreak of diseases in Bulgaria.

Professor S. Gerasimov

9.15 – 10.00 Presentations of sponsors – presentations of vaccines, medicines and disinfectants used in practice.

10.30 – 11.00 Closing the conference, Maritsa hall

11.00 – The tour to the Thracian temple complex Starosel

14.00 – Departure

POSTER SESSION

Poster panel: Scientific committee of International Conference on Zoology and Zoonoses

P1 The response of Chironomidae (Diptera) genome to heavy metal pollution in two rivers of Southern Poland. **Julia Ilkova**, Paraskeva Michailova, Ewa Szarek-Gwiazda, Andrzej Kownacki, Dariusz Ciszewski

P2 Genetic comparison between local *Apis mellifera macedonica*, type *rodopica*, selectively reared for production of bee queens and swarms in Bulgaria and honey bee colonies with indicative hygienic behavior. **Vida Georgieva**, Plamen Petrov, Teodora Staykova, Svilen Lazarov, Ivan Stoyanov, Evgeniya Ivanova

P3 Genetic variability in populations of *Messor barbarus* (Hymenoptera, Formicidae) from Bulgaria based on isoenzyme analysis. **Ivan Stoyanov**, Teodora Staykova, Penka Vasileva, Evgeniya Ivanova

P4 Genetic variability of *Eupelmus* species (Hymenoptera: Eupelmidae) based on allozyme markers. **Miroslav Antov**, Ivan Stoyanov, Anelia Stojanova, Teodora Staykova

P5 Potential of PCR – based molecular diagnostic methods for rapid detection of bacterial pathogens causing economically important diseases in fishes. **Maria Gevezova–Kazakova**, Feriha Tserkova, Ina Kirilova, Tania Hubenova, Angel Zaikov, Angelina Ivanova, Maria Yankova, Iliya Denev

P6 Genetic diversity and geographic distribution of round goby *Neogobius melanostomus* (Pallas) as revealed by mtDNA cyt b gene haplotypes. Feriha Tserkova, **Maria Gevezova–Kazakova**, Galin Gospodinov, Ina Kirilova, D. Klisarova, Tania Hubenova, Iliya Denev

P7 The difference in the some quantitative parameters of the observed bee breeding lines from Montenegro and Serbia. **Sladan Rašić**, Mića Mladenović, Ljubiša Stanisavljević, Radica Đedović, Leonidas Charistos, Aleksa Božičković

P8 Evidence of geno-toxicity induced by 60 Hz magnetic fields on mice bone marrow as assessed by in vivo micronucleus test. J. Antonio Heredia-Rojas, Abraham O. Rodríguez-de la Fuente, Omar Heredia-Rodríguez, **Michaela Beltcheva**, Roumiana Metcheva, Laura E. Rodríguez-Flores, Martha A. Santoyo-Stephano, Esperanza Castañeda-Garza

P9 Allozyme genetic characterization of *Apis mellifera* colonies from Bulgaria with different hygienic behavior. **Svilen Lazarov**, Ivan Stoyanov, Vida Georgieva, Ivanka Zhelyazkova, Evgeniya Ivanova

P10 Dynamic and ecological impact of marine zooplankton aliens in Varna Bay (Bulgarian Black Sea). **Kremena Stefanova**, Elitsa Stefanova, Valentina Doncheva

P11 Summary of significant fungal infections in mollusca. **Stojmir Stojanovski**, Mišo Hristovski, Stoe Smiljkov, Dijana Blažeković-Dimovska, Georgi Atanasov, Lidija Velkova-Jordanovska

P12 Summer rotifer assemblage in three Macedonian reservoirs (Konče 1, Konče 3 and Špilje). **Orhideja Tasevska**, Maria Špoljar, Dafina Gušeska, Goce Kostoski

P13 Contributions to the study of earthworms (Oligochaeta, Lumbricidae) of the Pannonian region of Serbia (Vojvodina Province). Mirjana Stojanović, Jovana Sekulić, **Ralitsa Tsekova**, Tanja Trakić

P14 Distribution and biogeographical significance of the endemic earthworm *Allolobophora robusta spasienjakkaramani* (Blakemore, 2004) (Oligochaeta: Lumbricidae) on the Balkan Peninsula: first finding place in Macedonia. Mirjana Stojanović, Jovana Sekulić, **Ralitsa Tsekova**, Tanja Trakić

P15 Mating behavior of millipede *Pachyiulus hungaricus* (Karsch, 1881) (Myriapoda, Diplopoda, Julidae) in laboratory conditions. **Sofija Pavković-Lučić**, Zvezdana Jovanović, Bojan Ilić, Vukica Vujić, Boris Dudić, Slobodan Makarov, Luka Lučić, Vladimir Tomić

P16 Cuticular chemoprofile in the fruit fly, *Drosophila subobscura* Collin, 1936 (Diptera: Drosophilidae). **Sofija Pavković-Lučić**, Marina Todosijević, Tatjana Savić, Jelena Trajković, Ljubodrag Vujisić

P17 Morphological analysis of *Branchipus* sp. from area of Stara Planina Mountains and Pannonian lowlands in Serbia. **Dragana Miličić**, Jelena Trajković, Sofija Pavković-Lučić, Tatjana Savić, Ljiljana Tomović

P18 First finding of *Lepidurus couesii* Packard, 1875 (Crustacea, Triopsidae) in Serbia – a record based on development of diagnostic body characters in males and females. Ivana Šaganović, Vladimir Tomić, Luka Lučić, **Dragana Miličić**

P19 Study of contents of lead, cadmium and nickel in the water and in metabolically active organs of crayfish *Astacus leptodactylus* in Kardzhali dam. **Desislava Arnaudova**, Aneliya Pavlova, Atanas Arnaudov

P20 First record of cysticercoids of *Microsomacanthus* (*Microsomacanthus*) *abortiva* (von Linstow, 1904) Lopez-Neyra, 1942 (Cyclophyllidea: Hymenolepididae) in *Gammarus* sp. (Amphipoda, Gammaridae) in Bulgaria. **Margarita Marinova**, Zlatka Dimitrova, Gergana Vasileva, Boyko Georgiev

P21 Morphometric variability, allometric growth and sexual dimorphism in narrow-clawed crayfish (*Astacus leptodactylus*, Esch.) during the ontogenesis. **Penka Vasileva**, Tania Hubenova, Angel Zaikov, Ivan Stoyanov

P22 A survey of natural enemies and associated arthropod pests in pomegranate orchards in Antalya province (South-western part of Turkey). Ismail Karaca, Özgür Şahin, **Fedai Erler**

P23 Species of *Ooencyrtus* genus (Hymenoptera: Encyrtidae), egg parasitoids of *Thaumetopoea solitaria* (Lepidoptera: Notodontidae) in Bulgaria. **Peter Boyadzhiev**, Plamen Mirchev, Georgi Georgiev

P24 A new species of the genus *Omphale* Haliday (Hymenoptera, Eulophidae, Entedoninae) from Bulgaria. Zoya Yefremova, Ekaterina Yegorenkova, Anelia Stojanova, **Peter Boyadzhiev**

P25 Description of *Stepanovia fructirosae* sp. n. (Hymenoptera: Chalcidoidea: Eulophidae) from Turkey. Peter Boyadzhiev, Zoya Yefremova, Göksel Tozlu, Yusuf Mergen, **Özlem Mete**

P26 The community members associated with rose gall wasp *Diplolepis fructuum* (Rübsaamen, 1895) (Hymenoptera: Cynipidae) in Tokat Province of Turkey. **Özlem Mete**

P27 Detection and identification of *Wolbachia* endosymbiont from *Sitophilus granaries*. **Aydin Suzu Tuncbilek**, Sevgi Bakir, Fahriye Sümer Ercan, Ilhan Derin, Hüsniye Bilbil

P28 Effect of non-ionizing radiation (UV) on prepupa and pupa stages of egg parasitoid *Trichogramma brassicae* Bezdenko (Hymenoptera: Trichogrammatidae). Fahriye Ercan, Sevcan Oztemiz, Nuri Ercan, **Aydin Suzu Tuncbilek**

P29 Isolation and identification of some gram positive bacteria causing infections in silkworm (*Bombyx mori* L.). Kalinka Gurgulova, Petya Orozova, Mihail Panayotov, **Ivanka Zhelyazkova**, Sonya Takova, Radostina Gancheva

P30 Aphid parasitoids (Hymenoptera, Aphidiinae) of the agro-ecosystems of the experimental fields in Plovdiv region. **Ognian Todorov**

P31 The horseflies (Diptera: Tabanidae) of Rila Mountains, Bulgaria. **Diana Ganeva**

P32 Developmental time and mating success in *Drosophila melanogaster* strains maintained on apple and carrot substrates. **Jelena Trajković**, Vukica Vujić, Dragana Miličić, Sofija Pavković-Lučić, Tatjana Savić

P33 Does diet affect mating preference and success in *Drosophila melanogaster* via changes in wing size and shape? **Jelena Trajković**, Sofija Pavković-Lučić, Tatjana Savić

P34 Different effects of a strong static magnetic field (2.4 T) on *Drosophila melanogaster* wing size and shape. **Tatjana Savić**, Dajana Todorović, Jasna Ristić-Djurović, Sofija Pavković-Lučić, Branka Petković, Jelena Trajković

P35 Habitat and sex-specific responses of *Drosophila subobscura* exposed to static magnetic field (2.4 T) revealed by analysis of morphological traits. **Tatjana Savić**, Dajana Todorović, Saša Ćirković, Sofija Pavković-Lučić, Branka Petković, Jelena Trajković

P36 Mosquito (Culicidae, Diptera) and vector monitoring in Danube Delta most representative ecosystems 2014-2015 (România). **Edina Török**, Hanna Jöst, Horváth Cintia, Alexandru Tomazatos, Daniel Cadar, Renke Lühken, Norbert Becker, Achim Kaiser, Octavian Popescu, Jonas Schmidt-Chanasit, Lujza Keresztes

P37 Morpho-physiological profile and changes in blood parameters of *Carassius gibelio* (Pisces: Cyprinidae) as response to the anthropogenic pollution in two water basins in the region of Galabovo, Southern Bulgaria. **Zhivko M. Zhelev**, Katerina N. Georgieva, Stefan V. Tsonev, Peter S. Boyadziev, Mladen V. Angeliov

P38 Effects of Ni and Pb on the respiration rate and histological structure of common carp (*Cyprinus carpio*, L.) gills. **Stela Stoyanova**, Iliana Velcheva, Vesela Yancheva, Ivelin Mollov, Elenka Georgieva

P39 Fulton condition coefficient of 11 fish species from great natural and two artificial lakes in the Republic of Macedonia. **Trajče Talevski**, Dragana Milošević

P40 Histopathology of kidney of *Salmothimus ohridanus* (Pisces, Salmonidae) caged in Lake Ohrid. **Lidija Velkova-Jordanoska**, Stojmir Stojanovski, Goce Kostoski

P41 Macrophyte vegetation as spawning ground of some cyprinid fish from Lake Ohrid. **Marina Talevska**, Trajce Talevski

P42 Seasonal changes in the red blood cell parameters in Ohrid roach blood from Ohrid Lake. **Blagoja Trajčevski**, Trajče Talevski, Dragana Milošević

P43 Correlation between the choice of partner and the individual nesting territory in the lesser kestrel (*Falco naumanni*) and preconditions for polyandry. **Polya Mihtieva**, Petya Karpuzova, Simeon Marin, Pavlin Zhelev, Gradimir Gradev, Dimitar Marinov

P44 Lesser kestrel (*Falco naumanni*) in Thrace – distribution, numbers, and threats. **Gradimir Gradev**, Dimitar Demerdchiev, Simeon Marin, Ivaylo Angelov, Pavlin Zhelev Elena Kmetova–Biro, Efterpi Patetsini, Dobromir Dobrev, Stoycho Stoychev

P45 First telemetric study of the individual territories, seasonal movements, and habitat use of the Balkanic capercaillie (*Tetrao urogallus rudolfi*). **Dimitar Plachiyski**, Georgi Popgeorgiev, Stefan Avramov, Katerina Angelova

P46 Characteristics of the territorial and hunting behavior of the red-footed falcon (*Falco vespertinus*) from South-Eastern Bulgaria. **Girgina Daskalova**

P47 Organochloride pesticides in feathers of *Pygoscelidae penguins* from Livingston island, Western Antarctica. **Roumiana Metcheva**, Michaela Beltcheva, Ginka Kalinova, Margarita Marinova, J. Antonio Heredia-Rojas, Vesela Peneva

P48 Bat fauna (Mammalia: Chiroptera) from Sakar-Mountain (South-Eastern Bulgaria). Ivan Pandurski, **Roumiana Metcheva**, Michaela Beltcheva, Yordan Yankov

P49 Population epigenetic diversity versus subspecies detachment of the forest dormouse (*Dryomys nitedula*) in a long distance transect in Eurasia: implication for its conservation. **Georgi Markov**, Ercument Çolak, Nuri Yigit, Maria Kocheva, Milena Gospodinova, Hristo Dimitrov

P50 Indication for genetic diversity of European roe deer (*Capreolus capreolus*) in Southeastern Europe revealed by mtDNA markers. **Georgi Markov**, Elena Zvychnaynaya, Alexei Danilkin, Marina Kholodova, Laszlo Sugar, Hristo Dimitrov

P51 Influence of tourists on the summer bat colonies in the Devetashka cave. **Svetlana Ivanova**, Boyan Petrov, Daniela Simeonovska-Nikolova

P52 Copulatory behavior of *Lasiopodomys (Stenocranius) gregalis* (Rodentia, Mammalia). Tanya Zorenko, **Nasko Atanasov**

P53 Karyotypic and craniometric characteristic of harvest mouse (*Micromys minutus* Pallas, 1771) (Mammalia: Rodentia) from South Bulgaria. **Tsenka Chassovnikarova**, Nasko Atanasov, Hristo Dimitrov, Vesela Mitkovska

P54 Autumn-winter diet and food niche overlap between red fox (*Vulpes vulpes* L. 1758) and golden jackal (*Canis aureus* L. 1758) in Bulgaria. **Albena Vlasseva, Tsenka Chassovnikarova**, Nasko Atanassov

P55 *In vivo* genotoxicity and cytotoxicity assessment of permissible concentrations of Ni and Pb based on comet assay and nuclear abnormalities in acridine orange stained erythrocytes of common carp (*Cyprinus carpio* L.). **Vesela Mitkovska**, Hristo Dimitrov, Tsenka Chassovnikarova

P56 Determination of specific IgG avidity and anti-Toxocara IgA antibodies in patients with toxocarosis and their application to specify the stage of disease. **Eleonora Kaneva**, Desislava Velcheva, Iskra Rainova

P57 Phytoplankton and chlorophyll a concentration in Lake Prespa during 2014. **Suzana Patceva**

P58 The water quality of the tributaries of the Lake Ohrid. **Silvana Vasilevska**, Elizabeta Veljanoska-Sarafiloska, Lence Lokoska

P59 The water quality of the river Sateska from microbiological and chemical aspects. **Lence Lokoska**, Elizabeta Veljanoska-Sarafiloska, Silvana Vasilevska

P60 Comparison between organochlorine pesticide residues, organic matter and lipophilic bacteria in sediment from Lake Ohrid and Lake Dojran. **Elizabeta Veljanoska-Sarafiloska**, Lence Lokoska

P61 Antibiotic resistance – the plague of today. **Teodora Stoyanova**