



**5th INTERNATIONAL CONGRESS ON BIODIVERSITY:
„Taxonomy, Speciation and Euro-Mediterranean Biodiversity“
11-13 October 2019, Sofia, Bulgaria**

PROGRAMME SUMMARY

FRIDAY, 11th OCTOBER 2019

Faculty of Biology, Sofia University, 8 Dragan Tzankov blvd., ceremonial hall (Aula) - 2nd floor

11:30 Bus from the Congress hotel to the Faculty of Biology, Sofia University

12:00-14:00 REGISTRATION

WELCOME ADDRESS:

14:00-14:10 *Prof. Dr. Habil. Anastas GERDZHIKOV, Rector of the Sofia University*

14:10-14:20 *Prof. Petar BERON, National Museum of Natural History, BAS*

14:20-14:30 *Prof. Stoyan SHISHKOV, Dean of the Faculty of Biology, Sofia University*

PLENARY LECTURES:

Chairman: Prof. David MIFSUD, Institute of Earth Systems, University of Malta, Malta

14:30-15:10 On unforeseen problems of the International Code of Zoological Nomenclature

Dr. Ivan LÖBL, Museum of Natural History, Geneva, Switzerland

15:10-15:50 Speciation processes in Lacertilia (Reptilia; Squamata) from Mediterranean region

Dr. Anthony HERREL, National History Museum, Paris, France

15:50-16:20 COFFEE BREAK

16:20-17:00 The real situation of protected areas in Europe

Prof. Antonio PERNA, University of Messina, Italy

17:00-17:40 Towards Open Science

Prof. Pavel STOEV, National Museum of Natural History, BAS

18:00 WELCOME COCKTAIL

21:00 Bus to the Congress hotel

SATURDAY, 12th OCTOBER 2019

Hotel of the Bulgarian Academy of Sciences, 50 Shipchenski Prohod Str., conference auditorium 1

ORAL PRESENTATIONS:

Chairman: Prof. Elena TASHEVA, Department of Zoology and Anthropology, Faculty of Biology, Sofia University, Bulgaria

- 9:00** **Distribution model and habitat characteristics of *Morimus asper funereus* Mulsant, 1863 (Coleoptera: Cerambycidae) in Bulgaria.**
Rostislav BEKCHIEV, Rumyana KOSTOVA, Georgi POPGEORGIEV, Maya ILIEVA
- 9:15** **Saproxyllic beetles (Insecta: Coleoptera) on an old beech (*Fagus sylvatica* L.) in Madonie Mountains (Sicily, Italy).**
Ignazio SPARACIO, Roberto VIVIANO
- 9:30** **Revision of the "*Lozopera*" species group reveals peculiar structures on the male genitalia in moths (Insecta: Lepidoptera: Tortricidae).**
Jose PEREZ SANTA-RITA, Joaquin BAIXERAS ALMELA, Boyan ZLATKOV
- 9:45** **Larval morphology of *Osmoderma cristinae* Sparacio, 1994 (Coleoptera: Cetoniidae).**
Michele BELLAVISTA, Ignazio SPARACIO
- 10:00** **Ground beetles communities (Coleoptera: Carabidae) from the Piana degli Albanesi surroundings (Sicily, Italy).**
Andrea TETAMO, Davide VANCHERI, Michele BELLAVISTA, Ignazio SPARACIO
- 10:15** **On the presence of *Brachytrupes megacephalus* Lefebvre 1827 (Orthoptera, Gryllidae) in the Natural Reserve "Simeto Oasis" (Sicily, Italy).**
Alfredo PETRALIA, Pietro FIANDACA, Ettore PETRALIA, Giorgio SABELLA, Gaetano TORRISI, Corrado BIANCA, Francesco LAMANNA

10:30-11:00 **COFFEE BREAK**

ORAL PRESENTATIONS:

Chairman: Dr. Giulio CUCCODORO, Museum of Natural History of Geneva, Switzerland

- 11:00** **On the ecology and biology of two endogean millipedes (Diplopoda: Julida: Julidae) endemic to the Western Rhodope Mtn., Bulgaria.**
Boyan VAGALINSKI
- 11:15** **Preliminary results on species composition of the biting midges-fauna (Culicoides) in a wetland on Lower Danube Flow, Bulgaria.**
Aneliya BOBEVA, Bruno MATHIEU

11:30 **On the Sicilian cave dwelling species of Auchenorrhyncha (Insecta, Rhynchotha).**

Vera D'URSO, Antonino PUGLISI

11:45 **Survey on the singing cicadas (Auchenorrhyncha: Cicadoidea) of Bulgaria, including bioacoustics.**

Tomi TRILAR, Matija GOGALA, Ilija GJONOV

12:00 **Diversity of the caddisflies (Trichoptera) of Bulgaria.**

Vesela EVTIMOVA

12:30 **LUNCH**

ORAL PRESENTATIONS:

Chairman: Prof. Nikolay SIMOV, National Museum of Natural History, Sofia, Bulgaria

14:00 **Observations on Cetoniidae (Insecta: Coleoptera) from Madagascar.**

Michele BELLAVISTA, Ignazio SPARACIO

14:15 **Species diversity and distribution of the amphibians and reptiles of Bulgarka Natural Park, Central Stara Planina, Bulgaria.**

Georgi POPGEORGIEV, Yurii KORNILEV, Dimitar PLACHIYSKI, Nikolay TZANKOV

14:30 **Diversity of hemipenes and its taxonomical implication in the genus *Ablepharus* (Squamata: Scincidae).**

Vladislav VERGILOV, Georgi POPGEORGIEV, Boyan ZLATKOV

14:45 **Diet of the Viviparous lizard *Zootoca vivipara* (Lichtenstein, 1823) (Reptilia: Lacertidae) from its southern range.**

Emiliya VACHEVA, Borislav NAUMOV

15:00 **New data on *Ceratitis capitata* (Wiedemann, 1824) (Diptera: Tephritidae) from Bulgaria**

Olia KARADJOVA, Boryana KATINOVA, Zhenya ILIEVA

15:15-15:30 **COFFEE BREAK**

ORAL PRESENTATIONS:

15:30 **Ectoparasites fauna of Sea bream fish *Diplodus annularis*, (Linnaeus, 1758), in the western coast of Libya.**

Sarah ben ZEGLAM, Rihanna ALHAJ, Bushra BAGEGNI, Khadija ben SAIDAN, Amna SOOWD, Rabeia AL-SHARIEAF, Zaineb ABDELNOR, Khuloud SALEM, Esmail A. SHAKMAN

15:45 **The role of constructed wetlands in conservation of biodiversity. A case study on birds diversity in Al-Hadba treatment plant, Tripoli, Libya.**
Aya ALGADRY, Esra'a DORMAN, Essam BOURASS, Khaled ETAYEB

16:00 **Status of chondrichthyan fishes in the Libyan coast.**
Esmail SHAKMAN, Abdalha ben ABDALHA, Khaled ETYEAB, Fabrizio SERENA

16:15 **Overview of the state of the Djerba's specific ecosystem. Impact of the changes on the biodiversity.**
Messaoud YAMOUN

16:30-18:30 **POSTER SESSION:**

1. Conservation of the populations of *Centaurea immanuelis-loewii* (Asteraceae) in NATURA 2000 in Bulgaria.

Svetlana BANCHEVA

2. New data on the distribution of *Menyanthes trifoliata*, *Carex limosa* and *Comarum palustre* in "Torfeno Branishte" Reserve, "Vitosha" Natural Park, Bulgaria.

Svetlana BANCHEVA, Rayna NATCHEVA, Vladimir VLADIMIROV, Atanas TANEV, Galin GOSPODINOV

3. Overview of the population state of Savin Juniper (*Juniperus sabina*) in the Rila Mt.

Aneta LAMBEVSKA-HRISTOVA, Svetlana BANCHEVA

4. Populations state of selected communities of *Juniperus communis* (Common Juniper) in Vitosha Mt., Bulgaria.

Aneta LAMBEVSKA-HRISTOVA, Svetlana BANCHEVA

5. *Gladiolus palustris* (Asparagales: Iridaceae) in Bulgaria: What we know?

Antoaneta PETROVA, Irina GERASIMOVA, Rossen VASSILEV, Diana VENKOVA

6. On the distribution of *Helichrysum arenarium* (L.) Moench (Asteraceae) in Bulgaria.

Elina YANKOVA-TSVETKOVA, Stoyan STOYANOV, Antonina VITKOVA, Ivanka SEMERDJIEVA

7. Alternative biotechnological approaches for propagation of *Helichrysum italicum* (Roth) G. Don (Asteraceae).

Asya KOZHUHAROVA, Boryanka TRAYKOVA, Yana SHOPOVA, Marina STANILOVA

8. Biodiversity of soil fungal communities in agro-ecosystems using DNA metabarcoding.

Stela LAZAROVA, Vlada PENEVA, Aleksandar MLADENOV, Lyudmila LOZANOVA, Violeta BOZHANOVA, Stoyan GEORGIEV, Katia UZUNDZALIEVA, Tatyana BILEVA,

Mima TODOROVA, Neli GROZEVA

9. Soil nematodes in the rhizosphere of a metal accumulating plant in a pollution gradient from a non-ferrous metal factory in Bulgaria.

Slavka GEORGIEVA, Juliana ATANASSOVA, Nikolai DINEV

10. Nematode diversity in four crop types (pea, apple, lavender and rose) in southern Bulgaria.

Stela LAZAROVA, Aleksandar MLADENOV, Lyudmila LOZANOVA, Vlada PENEVA

11. Diversity of *Coomansus zschokkei*-group (Nematoda, Mononchida) in Bulgaria.

Aleksandar MLADENOV, Milka ELSHISHKA, Stela LAZAROVA, Lyudmila LOZANOVA, Georgi RADOSLAVOV, Elena ZDRAVKOVA, Vlada PENEVA

12. Predatory nematodes of the order Mononchida from riparian habitats in Bulgaria.

Stela DIPCHIKOVA, Aleksandar MLADENOV, Vlada PENEVA, Stela LAZAROVA

13. New data on two species of the genus *Hemicycliophora* de Man, 1921 (Tylenchida, Hemicycliophoridae) from Bulgaria.

Zhenya ILIEVA, Ilyan ILIEV

14. A new *Aporcelinus* species (Nematoda, Aporcelaimidae) from Livingston Island - first record of the genus from the Maritime Antarctic.

Milka ELSHISHKA, Stela LAZAROVA, Aleksandar MLADENOV, Georgi RADOSLAVOV, Denitsa APOSTOLOVA, Lyudmila LOZANOVA, Vlada PENEVA

15. New data on the taxonomic composition of macroinvertebrates in marine habitats from the Livingston Island, Antarctica.

Lyubomir KENDEROV, Vesela EVTIMOVA, Plamen MITOV, Apostol APOSTOLOV, Eliza UZUNOVA, Marian KENDEROV

16. The spiders (Arachnida: Araneae) community of an agroecosystem.

Antonino DENTICI, Tommaso LA MANTIA

17. Araneofauna (Arachnidae: Araneae) of Monte Pellegrino (Sicily, Italy): Fourth contribution to the knowledge of the Sicilian spider fauna.

Antonino DENTICI

18. Spatial distribution of feather mites (Astigmata: Analgoidea) on the plumage of passerine birds from the territory of South Dobrudzha, Bulgaria.

Nevena KOLAROVA, Plamen MITOV

19. First data on the phenology and spermatogenesis of *Ilyocoris cimicoides* (Heteroptera, Nepomorpha, Naucoridae) from the Balkan

Peninsula.

Desislava STOIANOVA, Snejana GROZEVA

20. Additions to the ant fauna (Hymenoptera: Formicidae) of the Maltese Islands.

David MIFSUD, Albena LAPEVA-GJONOVA

21. Bumblebees (Hymenoptera, Apidae) in Bulgaria.

Bilyana STOYKOVA

22. Chalcidoid fauna (Hymenoptera: Chalcidoidea) of grasslands situated in rapeseed (*Brassica napus* L.) surroundings in Bulgaria.

Ivaylo TODOROV, Peter BOYADZHIEV, Teodora TEOFILOVA, Milka ELSHISHKA, Vlada PENEVA

23. Conservation significance and habitats variety in the Western Rhodope Mts. as a factor for the diversity of the ground beetles (Coleoptera: Carabidae)

Teodora TEOFILOVA

24. Ground beetles (Coleoptera: Carabidae) diversity from harvested oilseed rape fields (*Brassica napus* L.) in Southern Bulgaria.

Teodora TEOFILOVA, Ivailo TODOROV, Milka ELSHISHKA, Vlada PENEVA

25. Ground beetles (Coleoptera: Carabidae) diversity from pastures in Southern Bulgaria.

Teodora TEOFILOVA, Ivailo TODOROV, Milka ELSHISHKA, Vlada PENEVA

26. Subterranean fauna in two protected caves in the Hyblean area (Syracuse, Sicily).

Giuseppe NICOLOSI, Elena AMORE, Salvatore COSTANZO, Alberto SENDRA, Rosolino CIRRINCIONE, Giovanni SIGNORELLO, Giorgio SABELLA

27. Species composition of Chironomidae (Insecta: Diptera) in Vaya Lake, Bulgaria.

Elena NENOVA, Stefan STOICHEV, Ganina LAVCHIEVA-NACHEVA, Maria SHISHINIOVA

28. Updated distribution and species composition of the amphibians and reptiles along the Lower Danube, Bulgaria.

Georgi POPGEORGIEV, Borislav NAUMOV, Yurii KORNILEV, Vladislav VERGILOV, Miroslav SLAVCHEV, Simeon LUKANOV, Angel DYUGMEDZHIEV, Andrey STOYANOV, Dobrin DOBREV, Nikolay TZANKOV

29. Comparison of methodologies for the extraction of snakes' (Reptilia: Serpentes) skin secretions and preliminary results on the presence of pheromones.

Angel DYUGMEDZHIEV, Kostadin ANDONOV, Borislav NAUMOV, Simeon LUKANOV,

Miroslav SLAVCHEV, Emiliya VACHEVA, Nikola STANCHEV, Georgi POPGEORGIEV, Deyan DUHALOV, Yurii KORNILEV, Daniela NEDELTCHEVA-ANTONOVA

30. Distribution and taxonomy of the Grey voles (Mammalia, Rodentia, subgenus *Microtus*) in Bulgaria.

Nedko NEDYALKOV, Vanya KOLEVA, Ivaylo RAYKOV

31. Spatial and temporal estimation of habitat suitability of the *Spermophilus citellus* (Rodentia: Sciuridae) in the area of Sredna Gora Mountain (Central Bulgaria).

Sirma ZIDAROVA, Vasil POPOV

32. Terrestrial mammalian fauna (Eulipotyphla, Lagomorpha, Rodentia, Carnivora, Artiodactyla) of Lozen Mountain.

Sirma ZIDAROVA

33. Bat (Mammalia: Chiroptera) road casualties in the Kresna Gorge, Bulgaria.

Desislava STOIANOVA, Nikolay KARAIVANOV, Nikolay SIMOV

34. Biodiversity of Early Holocene large mammals from the territory of Bulgaria according to remains from archaeological sites.

Nadezhda KARASTOYANOVA

35. On the elusive origin of the wild goat *Capra aegagrus* Erxleben, 1777, on the island of Montecristo (Italy).

Marco MASSETI

36. Habitat selection of Capercaillie (*Tetrao urogallus*) displaying males: Case from Rila Mountain, Bulgaria.

Dimitar PLACHIYSKI, Georgi POPGEORGIEV, Stefan AVRAMOV, Yurii KORNILEV

37. Distribution, population density and habitat preferences of the Barn Owl (*Tyto alba*) in Sliven and Yambol districts, SE Bulgaria.

Girgina DASKALOVA, Peter SHURULINKOV, Georgi POPGEORGIEV

38. Latest observations on the nesting of the black stork *Ciconia nigra* Linnaeus, 1758 (Aves Ciconiidae) in valle del Vittravo (Calabria, Italia).

Francesco LAMANNA, Caterina DIMA

39. The land Malacofauna from Vesuvius National Park and neighbouring areas (Naples, Southern Italy). Preliminary results.

Agnese PETRACCIOLI, Nicola MAIO, Paolo CROVATO, Ivano NIERO, Paola CONTI, Orfeo PICARIELLO

40. Molecular approach to the study of ancient biodiversity preserved in natural history museums.

Stefano REALE, Valentina CUMBO, Ignazio SAMMARCO, Antonio SPINNATO,
Tiziana LUPO, Germano CASTELLI, Federica BRUNO, Salvatore SEMINARA

41. Heavy metals biomonitoring through birds of prey as top predators.

Valentina CUMBO, Francesco GIUSEPPE GALLUZZO, Gaetano CAMMILLERI, Antonio VELLA, Andrea MACALUSO, Ilaria RIZZUTO, Antonio PISANO, Vincenzo FERRANTELLI, Salvatore SEMINARA

42. Comparison between aluminium bioaccumulation in samples of the Muscovy duck *Cairina moschata* (Aves: Anatidae) from the city and the country.

Francesco GIUSEPPE GALLUZZO, Valentina CUMBO, Gaetano CAMMILLERI, Andrea MACALUSO, Gianluigi MARIA LO DOCO, Antonio VELLA, Vincenzo FERRANTELLI, Salvatore SEMINARA, Antonio VELLA

19:30 CONFERENCE DINNER

SUNDAY 13th OCTOBER 2019

Hotel of the Bulgarian Academy of Sciences, 50 Shipchenski Prohod Str., conference auditorium 1

ORAL PRESENTATIONS:

Chairman: Prof. Ilyan ILIEV, Department of Zoology and Anthropology, Faculty of Biology, Sofia University, Bulgaria

- 9:00** *Dactylorhiza kalopissii* (Liliopsida: Orchidacea) in Bulgaria: Distribution and conservation status.
Antoaneta PETROVA, Diana VENKOVA, Irina GERASIMOVA
- 9:15** **Unique habitats in the small archipelago of Malta (Central Mediterranean).**
David MIFSUD
- 9:30** **Functional landscape of Sila Grande – Calabria, Italy. Vegetation dynamism and synphytosociology.**
Dimitar UZUNOV, Carmen GANGALE
- 9:45** **Cyanoprokaryotes biodiversity in nine shallow Bulgarian wetlands.**
Blagoy UZUNOV, Maya STOYNEVA-GÄRTNER, Georg GÄRTNER, Mariana RADKOVA, Katerina STEFANOVA
- 10:00** **New data on the genus *Papillifera* W. Hartmann, 1842 (Gastropoda, Pulmonata, Clausiliidae) in Sicily (Italy).**
Fabio LIBERTO, Agatino REITANO, Mariastella COLOMBA, Ignazio SPARACIO

- 10:15** **The genus *Albinaria* Vest, 1867 (Gastropoda, Pulmonata, Clausiliidae), part II: Albania, Greece, Turkey and Lebanon (except the islands).**
Ignazio SPARACIO, Paolo CROVATO, Fabio LIBERTO, Agatino REITANO, Mariastella COLOMBA
- 10:30-11:00** **COFFEE BREAK**
- 11:00-11:15** **General conclusion (Closure of Congress)**

Excursion to Aleko Hut, Vitosha Mts.:

11:30 Bus from Congress Hotel to Aleko hut

12:30-14:45 Mountain hike + packaged lunch

15:00 Bus from Aleko hut to the Congress hotel