



7th ESENIAS Workshop with Scientific Conference

Networking and Regional Cooperation Towards Invasive Alien Species Prevention and Management in Europe

**28–30 March 2017
SOFIA, BULGARIA**

Organised by:

**INSTITUTE OF BIODIVERSITY AND ECOSYSTEM RESEARCH
BULGARIAN ACADEMY OF SCIENCES (IBER-BAS)**

**EAST AND SOUTH EUROPEAN NETWORK FOR INVASIVE ALIEN
SPECIES (ESENIAS)**

DANUBE REGION INVASIVE ALIEN SPECIES NETWORK (DIAS)



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Conference Overview

Networking and cooperation on invasive alien species (IAS) in different scales is crucial for the prevention and management of IAS and can facilitate the implementation of existing IAS instruments, such as the EU Regulation 1143/2014 on the prevention and management of the introduction and spread of IAS, which entered into force in 2015. There are several joint regional initiatives in Europe. The **East and South European Network for Invasive Alien Species (ESENIAS)** was established in 2011 to facilitate solving IAS issues in the Balkan countries. Currently, 12 member countries and three invited countries have been involved in the ESENIAS activities: exchange and sharing of IAS information, capacity building, research, policy development and harmonisation. In 2014 the **Danube Region Invasive Alien Species Network (DIAS)** was established within the frames of Priority Area 06 of the European Union Strategy for the Danube Region, International Association of Danube Research (IAD), and ESENIAS. Countries from the Upper, Middle and Lower Danube River basin, as well as adjacent Black Sea region participate in the network. DIAS strategy and work plan have been under development. Since 2015 a joint project: *East and South European Network for Invasive Alien Species – A tool to support the management of alien species in Bulgaria (ESENIAS-TOOLS)* has been implemented. The project is funded by the Financial Mechanism of the European Economic Area 2009-2014, and aims at networking and development of IAS tools (harmonisation of definitions and standards, listing and prioritisation of alien species, data collection, database development, education) within the frame of ESENIAS to support the management of alien species in Bulgaria and in the overall region.

The ESENIAS Conference entitled ‘*Networking and regional cooperation towards Invasive Alien Species Prevention and Management in Europe*’ will provide a forum for presentation of multidisciplinary research activities on various topics related to invasive alien species, highlighting the importance of regional cooperation for finding solutions at national, regional and European scale.

Scientific Topics

- 1. Invasive alien species traits and trends** – invasive alien species introductions and spread, biological and ecological characteristics; characteristics of recipient environment; invasive alien species and climate change
- 2. Vectors and pathways for invasive alien species introductions** - trade, transport, horticulture, aquaculture, agriculture, forestry, hunting, etc.
- 3. The Danube River as invasive alien species corridor** – priority species for the Danube Region, impact on threatened species, specificity of biological invasions in Lower, Middle and Upper Danube River sections
- 4. Invasive alien species impact** – environmental impact, impact on ecosystem services, socioeconomic impact and impact on human health; pests and pathogens
- 5. Invasive alien species prevention and management** - early detection and rapid eradication, surveillance systems; risk assessment and horizon scanning; control measures; restoration of damaged ecosystems; education, citizen science, strategies, policy and legislation; IAS networks and information systems, databases, data planning and management.

Programme

28 March 2017

Meeting venue:

Conference Hall of the Bulgarian Academy of Sciences
1 Fifteen November Street, Sofia 1000, Bulgaria
<http://www.bas.bg/contacts>

08:00 – 09:30 **Registration**

09:30 – 10:00 **Opening**

Ms Mariela Nacheva, Deputy Minister,
Ministry of Environment and Water of Bulgaria
Assoc. Prof. Dr. Anna Ganeva, Director, IBER-BAS
Prof. Dr. Ahmet Uludag, ESENIAS

Keynote presentation 1

10:00 – 10:30 **Teodora Trichkova, Rumen Tomov, Ahmet Uludag, Vladimir Vladimirov, Florian Ballnus, Harald Kutzenberger, Gabor Guti, Csaba Csuzdi** – Invasive alien species networking and regional cooperation in Europe: ESENIAS and DIAS; The role of ESENIAS-TOOLS project

Keynote presentation 2

10:30 – 11:00 **Eugenio Gervasini, Ana Cristina Cardoso, Konstantinos Tsiamis, Fabio D'Amico, Ivan Deriu, Ioana Matei** – European Alien Species Information Network (EASIN): Supporting scientific research and European policies on biodiversity

11:00 – 11:30 **Coffee**

Keynote presentation 3

11:30 – 12:00 **Argyro Zenetos** – Who is who among marine alien species in the ESENIAS region

Session 1: ESENIAS-TOOLS project results

Chairs: Teodora Trichkova, Rumen Tomov

12:00 – 12:15 **David Finger, Ingi Jónsson, Vaiva Cypaité, Nadja Ognjanova, Jón Ólafsson, Vesela Evtimova, Teodora Trichkova** – Monitoring of the diatom *Didymosphenia geminata* in the subarctic and in alpine areas of southern Europe

12:15 – 12:30 **Ahmet Uludag, Necmi Aksoy, Zubeyde Filiz Arslan, Ayşe Yazlık, Ilhan Uremis, Efecan Yazmış, Tiziana Cossu, Quentin Groom, Jan Pergl, Petr Pyšek, Giuseppe Brundu** – Alien flora of Turkey: Current list and beyond

12.30 – 12:45 **Marius Skolka** – The invasive alien species in Romania: Current status

12.45 – 13:00 **Paraskevi Karachle, Argyro Zenetos, Nicholas Jason Xentidis** – The ESENIAS countries' marine Alien Species experts: an updated inventory

13:00 – 14:00 **Lunch break**

Keynote presentation 4

14:00 – 14:30 **Andrei Orlinski** – Pest Risk Analysis, phytosanitary measures against invasive alien species and the role of biological control

Session 2: Invasive alien species prevention and management

Chairs: F. Güler Ekmekçi, Sven Bacher

14:30 – 14:45 **Alberto Inghilesi, Elena Tricarico** – LIFE ASAP ‘Alien Species Awareness Program’: Tackling alien species in Italy, *As Soon As Possible*

14:45 – 15:00 **Nildeniz Top, Lorenzo Vilizzi, Ali Serhan Tarkan, F. Güler Ekmekçi, Paul Stebbing, Gordon Copp** – Identification of invasiveness potential of freshwater fishes in Turkey by the Aquatic Species Invasiveness Screening Kit (AS-ISK)

15:00 – 15:15 **Nejc Jogan** – Could we analyze the IAS spread dynamics patterns from the available data?

15:15 – 15:30 **Ioannis Giovos, Nikolaos Doumpas, Ioannis Ioannou, Georgia Sarafidou, Demi Marmara, Vangelis Paravas** – Is Alien to you...Share it!!! A Citizen Science Project on alien species in Greece

15:30 – 16:00 **Coffee break**

Keynote presentation 5

16:00 – 16:30 **Tomas Gorner** - Current state of NOBANIS project; Invasive species in the Czech Republic

Session 3: The Danube River as invasive alien species corridor

Chairs: Sonja Desnica, Marius Skolka

16:30 – 16:45 **Borys Aleksandrov** – Recent state of invasive alien species in Ukrainian part of the Danube Delta (presented by **Yuriy Kvach**)

16:45 – 17:00 **Gabor Guti** – Alien fish species in the Hungarian section of the Danube River: Historical overview

17:00 – 17:15 **Marina Piria, Zoran Marčić, Goran Jakšić, Sven Horvatić, Davor Zanella** – Has the racer goby *Babka gymnotrachelus* (Kessler, 1857) failed to invade the Croatian tributaries of the Danube River?

17:15 – 17:30 **Alice Cardeccia, Zdravko Hubenov, Milcho Todorov, Ivan Botev, Dimitar Kozuharov, Lyubomir Kenderov, Teodora Trichkova** – *Dreissena polymorpha* in the Bulgarian inland water bodies, population structure and relation to environmental parameters

17:30 – 17:45 **Angela Curtean-Bănăduc, Teodora Trichkova, Doru Bănăduc** – Trophic features related to the explosive spread of the invasive alien species *Pseudorasbora parva* (Schlegel, 1842) in the Romanian-Danubian basin

Topic 1: Invasive alien species traits and trends, vectors and pathways of introduction

17:45 – 18:00 **Bilal Öztürk, Banu Bitlis, Alper Doğan, Neslihan Türkçü** – Contribution to the knowledge of alien marine molluscs along the Turkish coast, with a new record of *Varicopeza pauxilla* (A. Adams, 1855) from the Mediterranean Sea

29 March 2017

Meeting venue:
Park Hotel Moskva
25 Nezabravka Street, Sofia 1113, Bulgaria

Conference Hall 'Kiev'

Keynote presentations 6 and 7

Chairs: Cristina Preda, Ahmet Uludag

09:00 – 09:30 **Steve Adkins, Ali Ahsan Bajwa, Boyang Shi** - The global threat from
Parthenium hysterophorus L.: A warning from 'down under'

09:30 – 10:00 **Sven Bacher** - Comparing impacts of alien species: why and how?

10:00 – 10:30 **Coffee break**

Conference Hall 'Kiev'

Session 4: Invasive alien species traits and trends, vectors and pathways of introduction

Chairs: Argyro Zenetos, Doru Banaduc

10:30 – 10:45 **Gianna Servello, Fabio Crocetta, Argyro Zenetos** - Non-indigenous species:
further findings and range expansion in the Italian marine and brackish waters
by 2017

10:45 – 11:00 **Ali İşmen, İsmail Burak Daban, Mukadder Arslan İhsanoğlu** - Recent
status of invasive fish species in the North Aegean Sea

11:00 – 11:15 **Onur Gönülal, Melike Idil Öz** – The alien species in northern Aegean Sea
and a new locality of *Penaeus aztecus* Ives, 1891

11:15 – 11:30 **Sezginer Tunçer, M. Levent Artüz, Umur Önal, Cansu Funda, Umut
Uyan** - *Thysanozoon brocchii* (Risso, 1818) (Platyhelminthes: Polycladida):
First record for Turkish coastal waters, from the Sea of Marmara

11:30 - 11:45 **Yuriy Kvach, Yuliya Kutsokon** - The non-indigenous fishes in the fauna of
Ukraine: A potentia ad actum

11.45 – 12:00 **Edit Vardhami, Shpresa Harasani** - Invasive fishes in the fresh waters in
Albania

12:00 – 12:15 **Maria Stoumboudi, Roberta Barbieri, Eleni Kalogianni** - First report of an
established rainbow trout population in Greece

12:15 – 12:30 Discussions

12:30 – 14:00 **Lunch break**

Session 5: Invasive alien species traits and trends, vectors and pathways of introduction (Cont.)

Chairs: Marina Piria, David Finger

- 14:00 – 14:15 **Ingi Runar Jonsson, Gunnar Steinn Jonsson, Jon S. Olafsson, Sigurdur Mar Einarsson, Thorolfur Antonsson** - The colonising pattern of the diatom *Didymosphenia geminata* in Iceland
- 14:15 – 14:30 **Nadja Ognjanova-Rumenova, Ivan Botev, Vesela Evtimova, Teodora Trichkova** - Epilithic diatom assemblages from the Seven Rila Lakes, Bulgaria: Long-term dynamics and potential threats
- 14:30 – 14:45 **Dimitar Kozuharov, Rumen Kalchev, Mihaela Beshkova, Marieta Stanachkova, Lyubomir Kenderov, Vasil Vasilev, Teodora Trichkova** - Presence of the alien species *Craspedacusta sowerbii* in some Bulgarian reservoirs
- 14:45 – 15:00 **Marian Tudor, Marius Skolka** - Testing the ecological plasticity and invasiveness potential of *Neocaridina davidi* Kubo, 1938 (Crustacea, Decapoda, Atyidae)
- 15:00 – 15:15 **Naime Arslan, Cansev Akkan-Kökçü, Deniz Mercan, Deniz Anil Odabaşı** - Non-indigenous and Ponto-Caspian limnofauna (Gastropoda and Clitellata) of Lake Sapanca, Turkey
- 15:15 - 15:30 **Naime Arslan, Seval Kökmen-Aras, Deniz Mercan** - An indigenous species, *Dreissena polymorpha*, in Lake Büyük Akgöl as an invader

15:30 – 16:00 Coffee break

Session 6: Invasive alien species traits and trends, vectors and pathways of introduction (Cont.)

Chairs: Mirjana Lenhardt, Yuriy Kvach

- 16:00 – 16:15 **Deniz İnnal** – Parasites of non-indigenous fish species in the inland waters of Turkey
- 16:15 – 16:30 **Sezginer Tunçer, Ahmet Öktener** – First occurrence of *Peroderma cylindricum* (Heller, 1865) in Turkish Waters
- 16:30 – 16:45 **Deniz Innal, Daniela Giannetto** – Age and growth of non indigenous Redbelly tilapia *Coptodon zillii* (Cichlidae) in the Pınarbaşı Spring Creek (Burdur, Turkey)
- 16:45 – 17:00 **Baran Yoğurtçuoğlu, F. Güler Ekmekçi** – Variation in life history and feeding ecology of the invasive Eastern Mosquitofish *Gambusia holbrooki* in a groundwater-dependent wetland in Turkey
- 17:00 – 17:15 **Lale Gençoğlu, Şerife Gülsün Kırankaya, Baran Yoğurtçuoğlu, F. Güler Ekmekçi** – Feeding properties of translocated marine fish sand smelt, *Atherina boyeri* Risso, 1810, in a freshwater reservoir

Conference Hall 5 (Parallel sessions)

Chairs: Paulina Anastasiu, Vladimir Vladimirov

Session 7: Invasive alien species traits and trends, vectors and pathways of introduction (Cont.)

- 10:30 – 10:45 **Eugenia Nagodă, Petronela Comănescu, Gavril Negrean, Sanda Lițescu, Paulina Anastasiu** - Is Bucharest a hot spot of alien plant species in Romania?
- 10:45 – 11:00 **Shahid Farooq, Huseyin Onen, Cumali Ozaslan** - Deficit distribution data on invasive plant species: The untold story of plant invasion in Turkey
- 11:00 – 11:15 **Necmi Aksoy, Ahmet Uludag** - Alien flora of Düzce Province (Turkey)
- 11:15 – 11:30 **Cumali Ozaslan, Huseyin Onen, Shahid Farooq, Halil Erdem, Sonnur Tad** - Experimental insights for niche expansion potential of Common Ragweed

Session 8: Invasive alien species impact, prevention and management

- 11:30 - 11:45 **Anja Kalinić, Dragica Obratov-Petković, Jelena Tomičević-Dubljević, Vida Stojšić, Ivana Bjedov** - Invasive alien plants as a key threat factor for the floristic diversity in 'Deliblato Sand' Special Nature Reserve
- 11:45 – 12:00 **Huseyin Onen, Shahid Farooq, Cumali Ozaslan** - Do management efforts and vegetation succession affect the naturalisation success and vegetation dynamics of Common Ragweed in Turkey?
- 12:00 – 12:15 **Snježana Hrnčić, Sanja Radonjić, Tatjana Perović** - An impact of alien horticultural pests on urban landscape in the southern part of Montenegro
- 12:15 – 12:30 Discussions

12:30 – 14:00 **Lunch break**

Chairs: Stanislava Lazarevska, Marian Tudor

Session 9: Invasive alien species traits and trends, vectors and pathways of introduction (Cont.)

- 14:00 – 14:15 **Milka Glavendekic** - Expansion of pelargonium butterfly *Cacyreus marshalli* Butler (Lepidoptera: Lycaenidae) in the Balkan Peninsula
- 14:15 – 14:30 **Sanja Radonjić, Snježana Hrnčić** - New alien arthropod pests on agricultural crops in Montenegro
- 14:30 – 14:45 **Sezginer Tunçer, Batuhan Yaman Yakin, Kerim Çiçek, C. Varol Tok** - Does Italian wall lizard, *Podarcis siculus*, expand its distribution to Northeastern Anatolia?

Session 10: Invasive alien species impact

- 14:45 – 15:00 **Sevilay Kılıç, Meliha Merve Hiz** - Dermatological problems due to invasive alien species in Turkey
- 15:00 – 15:15 **Sibel Oymak, Meliha Merve Hiz, Basak Buyuk** - Exotic animal and plant trade as pathway for introduction of invading alien species and threat to public health

15:15 – 15:30 **Sibel Oymak, Başak Büyük, Meliha Merve Hız, Hatice Coban, Metin Otkun** – Settlement and reproduction of parrots in Istanbul and health implications

15:30 – 16:00 **Coffee break**

Session 11: Invasive alien species impact, prevention and management (Cont.)

Chairs: Sanja Radonjić, Nikolay Simov

16:00 – 16:15 **Roxana Ciceoi, Marin Dumbrava, Ionut Ovidiu Jerca, Ionela Dobrin** - Qualitative and quantitative analysis of damages on maize crops produced by the invasive stink bugs *Halyomorpha halys* and *Nezara viridula*

16:15 – 16:30 **Milka Glavendekić, Danimir Mandić** - Monitoring of *Cydalima perspectalis* (Walker) (Lepidoptera: Crambidae) supported by Education and Citizen Science

16:30 – 16:45 **Teodora B. Toshova, Dimitar I. Velchev, Vasiliy D. Abaev, Plamen K. Kalushkov, Edit Orgován, Zsófia Lohonyai, Miklós Tóth, Sándor Koczor** - Detection of some Coleoptera species in coloured sticky traps in maize crops in Bulgaria

16:45 – 17:00 **Teodora B. Toshova, Dimitar I. Velchev, Vasiliy D. Abaev, Daniela Y. Atanasova, Miklós Tóth** - Detection and monitoring of *Diabrotica virgifera virgifera* LeConte, 1858, by KLP+ traps with dual (pheromone and floral) lures in Bulgaria

17:00 – 17:15 **Zubeyde Filiz Arslan, Ahmet Uludag, Halil Kutuk, Khawar Jabran** - Insects may act as potential biological control agents for alien ornamental plants in Turkey

17:15 – 18:15 **Poster Session**

19:00 **Conference dinner**

30 March 2017

Meeting venue:
Park Hotel Moskva
25 Nezabravka Street, Sofia 1113, Bulgaria

Conference Hall 'Kiev'

Chairs: Edit Vardhami, Dan Cogalniceanu

Keynote presentations 8 and 9

09:00 – 09:30 **Teodora Trichkova, Milcho Todorov, Rumen Tomov, Vladimir Vladimirov, Kostadin Ignatov, Ivan Botev, Momir Paunovic, Dan Cogalniceanu** – Pilot-study on invasive alien species in the Danube Region with a smartphone application developed by the EC JRC

09:30 – 10:00 **Paulina Anastasiu, Laurentiu Rozyłowicz, Cristina Preda, Doru Bănăduc, Dan Cogalniceanu** – Invasive alien species of Union Concern in Romania

10:00 – 10:30 **Coffee break**

Session 12: Invasive alien species prevention and management (Cont.)

Chairs: Edit Vardhami, Dan Cogalniceanu

10:30– 10:45 **Alberto Francesco Inghilesi, Elena Tricarico** - Management of freshwater invasive species in Central Italy: The experience of LIFE and Aquainvad-ED projects

10:45 – 11:00 **Hacer Saglam, Ertug Duzgunes** - Pros and cons of the invasive Rapa whelk in the Black Sea region of Turkey

11:00 – 11:15 **Ertug Duzgunes, Hacer Saglam** - The management of Rapa whelk harvesting in Turkey

11:15 – 11:30 **Rumen Tomov** – Analysis and management of pathways of introduction and spread of invasive alien species in South-East Europe

11:30 – 12:30 **Poster Session**

12:30 – 14:00 **Lunch break**

14:00 – 15:30 **Joint ESENIAS and DIAS Meeting**

15:30 – 16:00 **Coffee break**

16:00 – 17:00 **Joint ESENIAS and DIAS Meeting (Cont.)**

Poster Presentations

Topics 1 and 2: Invasive alien species traits and trends; Vectors and pathways of introduction

- P1.01: Ana Tošić, Vera Nikolić, Dubravka Škraba Jurlina, Predrag Simonović** - Revealing introgression of allochthonous brown trout (*Salmo cf. trutta* L.) in Eastern Serbia populations using molecular markers
- P1.02: Antoaneta Petrova, Irina Gerasimova** - On a naturalised population of *Larix decidua* in the Rhodope Mountains
- P1.03: Antoaneta Petrova, Vladimir Vladimirov, Alexandar Tashev** - The Maritime pine (*Pinus pinaster*) – a naturalised alien on the Bulgarian Black Sea Coast with a high impact on the sand dune habitats
- P1.04: Antoaneta Petrova, Zhivko Barzov** - *Oenothera laciniata* (Onagraceae) a new alien species to the Bulgarian flora
- P1.05: Blagoj Nikolov, Bojan Simovski, Ivan Minchev** - *Ailanthus altissima* in the region of Malesh in FYR Macedonia
- P1.06: Boris Assyov** - *Mycena seynii* (Mycenaceae, Agaricales) in Bulgaria
- P1.07: Constantina Chireceanu, Andrei Teodoru, Andrei Chiriloaie** - First record of oak lace bug *Corythucha arcuata* (Say, 1832) in Romania
- P1.08: Elina Yankova-Tsvetkova, Petka Yurukova-Grancharova, Vladimir Vladimirov** - On the embryology of two invasive alien species of *Solidago* (Asteraceae) in Bulgaria
- P1.09: Elitsa Popova, Diana Zlatanova** - An update on the distribution of the alien raccoon dog (*Nyctereutes procyonoides*, Gray) on the Balkans
- P1.10: Florina Stănescu, Tibor Sos, Ciprian Samoilă, Dan Cogălniceanu** - *Trachemys scripta* in the East and South European Region. A review of the invasion extent
- P1.11: Hacer Saglam, Ertug Duzgunes** - Introduction pathways of invasive alien species in the Black Sea coast of Turkey
- P1.12: Ina Aneva, Peter Zhelev, Stoyan Stoyanov** - Alien species as a part of plant composition in the periphery of agricultural fields
- P1.13: Jakov Dulčić, Branko Dragičević, Pero Tutman** - Status of non-indigenous fish species in the eastern Adriatic Sea: A short review
- P1.14: Katia Trencheva** - A review of alien scale insects (Hemiptera: Coccoidea) in Bulgaria
- P1.15: Lale Gençoğlu, Şerife Gülsün Kirankaya, Kayıhan Karaçor, Meryem Çam, F. Güler Ekmekçi** - Differentiations in kidney histology of invasive freshwater populations of marine fish sand smelt
- P1.16: Ligita Baležentienė** - Ecophysiological adaptation of southern escapes in Lithuania
- P1.17: Lyubomir Kenderov, Teodora Trichkova, Krešimir Žganec** – New records of translocated *Pontogammarus robustoides* (Amphipoda, Perecarida) and *Limnomysis benedeni* (Mysida) in the Aegean Sea basin in Bulgaria
- P1.18: Lyubomir Kenderov, Krešimir Žganec, Teodora Trichkova** – First finding of *Dikerogammarus villosus* (Amphipoda, Perecarida) in Bulgarian inland waters
- P1.19: Marija S. Marković, Danijela S. Nikolić, Vesna P. Stankov-Jovanović, Biljana M. Nikolić, Slavisa M. Stamenković, Ljubinko B. Rakonjac** - Colonising plants in fire-affected habitats in Vidlič Mountain
- P1.20: Mario Langourov, Nikolay Simov** - New data on the expansion of *Geranium bronze* (Lepidoptera, Lycaenidae) in the eastern part of the Balkan Peninsula, with some biological notes
- P1.21: Marzio Zapparoli, Giuseppe Mazza, Alberto Francesco Inghilesi** - Alien invertebrates' introductions into Italy: An overview

- P1.22: Milcho Todorov, Alice Cardeccia, Zdravko Hubenov, Lyubomir Kenderov, Dimitar Kozuharov, Marian Kenderov Ivan Botev, Teodora Trichkova** - Range expansion of the alien mussels *Corbicula fluminea* and *Sinanodonta woodiana* (Mollusca: Corbiculidae and Unionidae) in Bulgaria
- P1.23: Nedko Nedyalkov, Yordan Koshev** - Natural history of two alien rodents: *Rattus rattus* and *Rattus norvegicus* (Muridae, Mammalia) in Bulgaria
- P1.24: Nikolay Simov, Denis Gradinarov** - New invasive alien assassin bug species (Heteroptera, Reduviidae) for the Balkan Peninsula
- P1.25: Nikolay Simov, Snejana Grozeva, Mario Langourov, Georgi Georgiev, Plamen Mirchev, Margarita Georgieva** - New data on the expansion of invasive alien lace bug species (Heteroptera, Tingidae) in the Balkan Peninsula
- P1.26: Nikolay Zafirov** - Invasive alien pathogenic fungi on coniferous forest tree species in Bulgaria
- P1.27: Pero Tutman, Jakov Dulčić, Branko Dragičević** - The invasive blue crab *Callinectes sapidus* Rathbun, 1896 (Crustacea: Portunidae): A permanent resident or just provisional visitor across the eastern Adriatic Sea, Croatia?
- P1.28: Petya Ivanova, Antoaneta Trayanova, K. Stefanova, E. Stefanova, V. Raykov** - Recent status of some zooplankton, benthic and fish alien species along the Bulgarian Black Sea coast
- P1.29: Ruben Iosif, Dan Cogălniceanu, Dorel Ureche** - Rapid spread of Amur sleeper (*Perccottus glenii*) in North-Eastern Romania
- P1.30: Rumen Tomov, Dimitar Semerdzhiev** - Occurrence of the Harlequin ladybird *Harmonia axyridis* (Coleoptera: Coccinellidae) in the agro-biocenosis of Bulgaria
- P1.31: Sasho Trajanovski, Teodora Trichkova, Konstantin Zdraveski, Biljana B. Gjoreska, Marina Talevska, Sonja Trajanovska** - Alien species in the upper watershed of ancient Lake Ohrid
- P5.32: Sezginer Tunçer** - A new occurrence of the American blue crab, *Callinectes sapidus* in coastal lagoon, vicinity of Yeniköy Harbour from Çanakkale Boğazi (Dardanelles, Turkey)
- P1.33: Stanislava Lazarevska, Jovan Petrov, Mile Postolovski, Sterije Naceski, Vesna Krsteska** - *Ceroplastes japonicus* Green: A new pest insect in Republic of Macedonia
- P1.34: Stefan Petrov, Galya Petrova, Vladimir Vladimirov** - Genetic variability of the alien species *Opuntia humifusa* (Cactaceae) within its locality in Harmanli District, South Bulgaria
- P1.35: Tatjana D. Jakšić, Mirjana M. Smiljić, Vesna P. Stankov-Jovanović, Slaviša M. Stamenković, Olivera M. Papović, Predrag S. Vasić, Marija S. Marković** - Activity of catalase in invasive plants from tailing pond of the Trepča lead and zinc mine
- P1.36: Tihomir Stefanov, Pencho Pandakov, Teodora Trichkova** – Recent expansion of the ruffe *Gymnocephalus cernua* (Pisces: Perciade) outside its native range in Bulgaria
- P1.37: Vlada Peneva, Stela Lazarova, Milka Elshishka** - Alien nematode species in ESENIAS countries
- P1.38: Vladimir V. Neimorovets, Valeriy I. Shchurov, Alexander S. Bondarenko, Mikhail M. Skvortsov, Fedor V. Konstantinov** – First documented outbreak and new data on the distribution of *Corythucha arcuata* Say (Heteroptera: Tingidae) in Russia
- P1.39: Vladimir Vladimirov, Malina Delcheva** - *Ammannia coccinea* (Lythraceae) – a new alien plant species in Bulgaria
- P1.40: Yordan Koshev, Nedko Nedyalkov** - Alien mammal species of Bulgaria
- P1.41: Yordan Koshev, Nedko Nedyalkov** – Range expansion of three alien mammal species: the coypu (*Myocastor coypus*), the muskrat (*Ondatra zibethicus*), and the raccoon dog (*Nyctereutes procyonoides*) in Bulgaria

P1.42: Zafer Cemal Özkan, Sefa Akbulut - Biological and ecological traits of some invasive alien plant species in the Black Sea region of Turkey

Topic 3: The Danube River as invasive alien species corridor

P3.01: Ana Andjelkovic, Milica Živković, Dušanka Cvijanović, Dragana Marisavljević, Danijela Pavlović, Snežana Radulović - Riparian area of the Danube (Serbia) as an invasive alien plant species corridor

P3.02: Galia Georgieva, Yordan Uzunov, Mila Ihtimanska, Stefan Kazakov, Pencho Ivanov, Lyubomir Kenderov, Maria Kerakova, Emilia Varadinova - New data about the distribution of the alien species *Branchiura sowerbyi* Beddard, 1892 (Oligochaeta: Tubificidae) in Bulgaria

P3.03: Eliza Uzunova, Kostadin Ignatov, Dimitri Dashinov, Elena Tasheva, Teodora Trichkova - Morphometric and meristic variations in non-native whitefish *Coregonus mareanoides* (Polyakov, 1874) from Iskar Reservoir, Danube River basin, Bulgaria

P3.04: Stefan Skorić, Branislav Mićković, Dušan Nikolić, Aleksandar Hegediš, Gorčin Cvijanović - Seasonal weight-length relationship of Amur sleeper (*Perccottus glenii* Dubowski, 1877) in the Danube River drainage channel

P3.05: Vesela Evtimova, Violeta Tyufekchieva, Galia Georgieva, Desislava Stoyanova, Ivailo Dedov, Maria Kerakova, Rabia Soufi, Stefan Stoichev, Yanka Vidinova - Importance of river type and presence of non-indigenous species for benthic communities of tributaries of the Lower Danube River

Topic 4: Invasive alien species impact

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P4.02: Ertug Duzgunes, Hacer Saglam, Naciye Erdogan Saglam - Impacts of the invasive species in the Black Sea

P4.03: Konstanin Zdraveski, Teodora Trichkova, Sasho Trajanovski - Economic impacts of the aquatic invasive alien species within the ESENIAS region: Need for development of cost estimation

P4.04: Michaela Beshkova, Detelina Belkinova, Roumen Kalchev, Hristina Kalcheva, Rumen Mladenov, Plamen Stojanov - Phytoplankton qualitative and quantitative characteristics: Comparison of Bulgarian reservoirs infested and non-infested by *Dreissena polymorpha* (Mollusca: Bivalvia)

P4.05: Nigar Alkan, Hacer Sağlam, Ertuğ Düzgüneş - A review of metals in *Rapana venosa* (Rapa whelk) in the Black Sea

P4.06: Roxana Ciceoi, Cătălin Gutue, Minodora Gutue, Ioan Roșca - The current status of pests associated to urban vegetation in Bucharest area

Topic 5: Invasive alien species prevention and management

- P5.01: Alberto Francesco Inghilesi, Karolis Kazlauskis, Sandra Vigišová, Jiri Skuhrovec, Helen E. Roy** - Engaging people in biodiversity surveys: developing a European ladybird mobile app
- P5.02: Alkan Öztekin, İsmail Burak Daban** - Determining of the technical properties of trotlines using fisheries of invasive *Atherina boyeri*
- P5.03: Ana-Cristina Fătu, Ana-Maria Andrei** - Laboratory test of three isolates of *Beauveria bassiana* (Bals.) Vuill. against larvae of invasive sawfly *Aproceros leucopoda* Takeuki
- P5.04: Chiara Aglietti, Luisa Ghelardini, Paolo Capretti, Alberto Santini, Nicola Luchi** - Portable LAMP (Loop mediated isothermal AMPLification): New molecular assays to detect invasive plant pathogens
- P5.05: Ekaterina Kozuharova, Adam Matkowski, Dorota Woźniak, Rumiana Simeonova, Zheko Naychov, Niko Benbassat, Vladimir Kochmarov, Atanas G. Atanasov** - 'Invasive alien species' or unlimited resources of plant substances for medicinal use?
- P5.06: Marga Grădilă** - Management of some dicotyledonous invasive weeds in rape crops in southern Romania
- P5.07: Mirjana Lenhardt, Ladislav Pekarik, Stefan Skorić, Marija Smederevac-Lalić, Aleksandar Hegediš, Milica Jaćimović, Vesna Djikanović** - Influence of the diel period and different sampling methods on catch of gobiids at four locations in the inshore part of the Danube River
- P5.08: René Eschen, Andrea Vannini** - Global Warning: A COST Action about tree nurseries as early warning system against alien pests
- P5.09: Roxana Ciceoi, Minodora Gutue, Elena Stefania Mardare** - Citizen-generated data on invasive alien pests in Romania: Trends and challenges
- P5.10: Roumiana Todorova** - Risk management against invasive disease-transmissive mosquitoes in EU
- P5.11: Traian Manole, Constantina Chireceanu, Andrei Teodoru** - The current status of *Diabrotica virgifera virgifera* LeConte in Romania