

Department of Biology and Ecology,  
Faculty of Sciences and Mathematics, University of Niš  
Institute for Nature Conservation of Serbia  
Science Technology Park Niš

**15<sup>th</sup> Symposium on the Flora of  
Southeastern Serbia  
and Neighboring Regions**  
Niš, 23<sup>th</sup> to 25<sup>th</sup> May, 2025

Abstracts

15<sup>th</sup> Symposium on the Flora of Southeastern Serbia and Neighboring Regions,  
Niš, 23<sup>th</sup> to 25<sup>th</sup> May 2025

## Book of Abstracts

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# PROGRAMME

**Friday, May 23<sup>th</sup>, 2025**

08.00-10.00 Registration

10.00-11.30 Opening Ceremony

11.30-12.00 Coffee break

12.00-13.15 *In memoriam*

13.15-14.00 Lunch break

14.00-16.00 Session 1

## **Hall 1**

Taxonomy and Systematics

## **Hall 2**

Agriculture, Forestry and Landscape Architecture

16.15-18.30 Session 2

## **Hall 1**

Phytogeography, Floristics and Phytoecology

## **Poster Session 1**

18.30-20.00

Taxonomy and Systematics

Phytogeography, Floristics and Phytoecology

Genetics, Selection and Biotechnology

Agriculture, Forestry and Landscape Architecture

**Saturday, May 24<sup>th</sup>, 2025**

08.00-10.00 Registration

10.00-11.30 Session 3

**Hall 1**

Phytochemistry and Phytotherapy

**Hall 2**

Ecology and Environmental Protection

12.00-14.15 Session 4

**Hall 1**

Nature Protection

14.15-15.30 Lunch break

**Poster Session 2**

15.30-17.00

Ecology and Environmental Protection

Nature Protection

Phytochemistry and Phytotherapy

20.00 Conference dinner

**Sunday, May 25<sup>th</sup>, 2025**

**Hall 2**

10.00-11.00 Presentation of COST Action

CA22105-BeSafeBeeHoney

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18000 Niš, Republic of Serbia

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12.00-18.00 Excursion

# Detailed Programme

## Hall 1

Friday, May 23<sup>th</sup>, 2025.

10.00-11.30

Opening ceremony

11.30-12.00 Coffee break

### *In memoriam*

12.00-12.15

**Nikolić, D.**, Department of Biology and Ecology, Faculty of Sciences and Mathematics, University of Niš, Niš, Serbia

***Professor Dr. Vladimir Randelović – In memoriam (1965-2023)***

12.15-12.30

**Mihajilov-Krstev, D.**, Department of Biology and Ecology, Faculty of Sciences and Mathematics, University of Niš, Niš, Serbia

***Professor Dr. Novica Randelović – In memoriam (1937–2023)***

12.30-12.45

**Lakušić, D., Tomović, G., Vukojičić, S.**, Faculty of Biology, University of Belgrade, Belgrade, Serbia

***Professor Dr. Vladimir Stevanović (1947-2024) – In memoriam***

12.45-13.00

**Anačkov, G.**, Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

***I could live here for the rest of my life - Prof. Dr. Biljana Božin: a researcher from the heart of the Pannonian Plain on the mountain peaks of Serbia and the Balkans***

13.00-13.15

**Lakušić, B., Stojanović, D.**, Faculty of Pharmacy, University of Belgrade, Belgrade, Serbia

***Professor Dr. Violeta Slavkowska (1958-2025) – In memoriam***

13.15-14.00 Lunch break

## Taxonomy and Systematics, Hall 1

Friday, May 23<sup>th</sup>, 2025.

**Chairs of the section: Anačkov, G., Buzurović, U.**

### **Introductory Lecture**

14.00-14.15

**Rat, M.**, Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

***The development of botanical studies among Serbs during the European Revolutionary Era (late 18<sup>th</sup> – early 19<sup>th</sup> century)***

**Oral Presentations**

14.15-14.25

Çiftçi, A., Mollmann, R., Kaleli, B., Şık, L., Erol, O.

**Erol, O.**, Botany Division, Department of Biology, Faculty of Science, Istanbul University, Istanbul, Türkiye

***Rewriting the story of *Crocus chrysanthus* Herb.***

14.25-14.35

Çiftçi, A., Özel, B., Gülçelik, C., Erol, O.

**Gülçelik, C.**, Department of Biology, Faculty of Science, Istanbul University, Fatih, Istanbul, Türkiye

***Exploring scape anatomy in *Crocus L.*: Its role in distinguishing series and species***

14.35-14.45

Ranimirović, M., Đurović, S., Tomović, G., Niketić, M.

**Ranimirović, M.**, Faculty of Pharmacy, University of Belgrade, Belgrade, Serbia

***Morphological variability of selected taxa in the *Stachys recta* group (*Lamiaceae*) in the Central and Southern Balkans***

14.45-14.55

**Hroneš, M.**, Department of Botany, Faculty of Science, Palacký University, Czech Republic

***Putting together the pieces of *Gagea bohemica* (*Liliaceae*) biosystematic puzzle***

14.55-15.05

Milivojević, L., Tomović, G., Đurović, S., Bogdanović, S., Niketić, M., Buzurović, U.

**Milivojević, L.**, Faculty of Biology, University of Belgrade, Belgrade, Serbia

***Morphological delimitation of neglected species *Armeria dalmatica* Beck from *Armeria canescens* (*Host*) Boiss.***

15.05-15.15

Peškanov, J., Radak, B., Bogdanović, S., Vlku, A.Z., Anačkov, G.

**Peškanov, J.**, Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

***Preliminary morphometric analysis of the *Ophrys sphegodes* complex from Croatia***

15.15-15.25

Zbiljić, M., Kuzmanović, N., Novaković, J., Mladenović, Ž., Lakušić, D.

**Zbiljić, M.**, Department of Botany, Faculty of Pharmacy, University of Belgrade, Belgrade, Serbia

***Teucrium montanum subsp. skadarensis (*Lamiaceae*) – a new subspecies from northern Albania***

15.25-15.35

Miličević, A., Popović, S., Jakovljević, O.

**Miličević, A.**, Institute of Botany and Botanical Garden “Jevremovac”, Faculty of Biology, University of Belgrade, Belgrade, Serbia

***A new *Navicula* species (*Bacillariophyceae*) from Serbia’s thermomineral springs***

## **Agriculture, Forestry and Landscape Architecture, Hall 2** **Friday, May 23<sup>th</sup>, 2025.**

**Chairs of the section: Đurović, S., Crnković, M.**

### **Introductory Lecture**

14.00-14.15

Ocokoljić, M., Petrov, Đ., Galečić, N., Skočajić, D., Čukanović, J., Kolarov, R., Đorđević, S.  
**Petrov, Đ.**, Department of Landscape Architecture and Horticulture, Faculty of Forestry,  
University of Belgrade, Belgrade, Serbia

***Potential of the climbing rose 'Casino' in urban environments: Towards to climate change***

### **Oral Presentations**

14.15-14.25

Ocokoljić, M., Petrov, Đ., Galečić, N., Skočajić, D., Čukanović, J., Vujičić, D., Simović, I.  
**Petrov, Đ.**, Department of Landscape Architecture and Horticulture, Faculty of Forestry,  
University of Belgrade, Belgrade, Serbia

***Trachelospermum jasminoides (Lindl.) Lem. in pergola design: An experimental study in Belgrade***

14.25-14.35

Bobinac, M., Andrašev, S., Šušić, N.

**Bobinac, M.**, Faculty of Forestry, University of Belgrade, Belgrade, Serbia

***The phases of degradation in oak forests of the western part of the National park 'Fruška Gora' - a challenge for sustainable forest management***

14.35-14.45

Ocokoljić, M., Petrov, Đ., Galečić, N., Skočajić, D., Čukanović, J., Vujičić, D., Simović, I.  
**Petrov, Đ.**, Department of Landscape Architecture and Horticulture, Faculty of Forestry,  
University of Belgrade, Belgrade, Serbia

***Indigofera heterantha Wall. ex Brandis – a new exotic species in Serbia***

## **Phytogeography, Floristics and Phytoecology, Hall 1**

**Friday, May 23<sup>th</sup>, 2025.**

**Chairs of the section: Radak, B., Papp, B.**

### **Introductory Lectures**

16.15-16.30

**Čuk, M.**, Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad,  
Novi Sad, Serbia

***Diversity and dynamics of sand dune habitats in Serbia***

16.30-16.45

Papp, B., Lőkös, L., Dragičević, S.

**Papp, B.**, Botanical Department, Hungarian Natural History Museum, Budapest, Hungary

***Montenegrin coastal bryophyte vegetation – 100 years later in the footsteps of the earlier bryologists***

## Oral Presentations

16.45-16.55

Durović, S., Ranimirović, M., Obradov, D., Rat, M., Perić, R., Jovanović, M.D., Zlatković, B., Vukojičić, S., Niketić, M.

**Durović, S.**, Faculty of Agriculture, University of Niš, Kosančićeva 4, 37000 Kruševac, Serbia

***Contribution to the knowledge of endangered and vulnerable species of the genus Euphorbia L. in the flora of the Republic of Serbia***

16.55-17.05

Šoškić, M., Stešević, D., Popović, A., Rat, M.

**Šoškić, M.**, Department of Biology, Faculty of Natural Sciences and Mathematics, University of Montenegro, Podgorica, Montenegro

***The genus Ornithogalum sensu stricto in the flora of Montenegro***

17.05-17.15

Vassilev, K., Velev, N., Nazarov, M., Genova, B.

**Vassilev, K.**, Institute of Biodiversity and Ecosystem Research, Bulgarian Academy of Sciences, Sofia, Bulgaria

***What do we know about vegetation diversity of Bulgaria?***

17.15-17.25

Durović, S., Stevanoski, I., Dorđević, V., Kuzmanović, N., Vukojičić, S.

**Durović, S.**, Faculty of Agriculture, University of Niš, Kosančićeva 4, 37000 Kruševac, Serbia

***The BEOU herbarium as a source of information on protected plant species in Serbia, focusing on plant taxa protected by the Habitats Directive and the Bern Convention***

17.25-17.35

Genova, B., Velev, N., Gecheva, G., Georgiev, S., Grigorov, B., Mardari, C., Nazarov, M., Vassilev, K.

**Genova, B.**, Institute of Biodiversity and Ecosystem Research, Bulgarian Academy of Sciences, Sofia, Bulgaria

***Syntaxonomical diversity of the Phragmito-Magnocaricetea class in Bulgaria – an overview***

17.35-17.45

Popović, A., Šoškić, M., Stešević, D.

**Popović, A.**, Natural History Museum of Montenegro, Podgorica, Montenegro; Department of Biology, Faculty of Natural Sciences and Mathematics, University of Montenegro, Podgorica, Montenegro

***Vascular flora and floristic peculiarities of the Čakor Pass area and surroundings***

17.45-17.55

Vlku, A.Z., Radak, B., Peškanov, J., Anačkov, G.

**Vlku, A.Z.**, Department of Biology and Ecology, Faculty of Science, University of Novi Sad, Novi Sad, Serbia

***New orchid records from Tupižnica Mt. (Eastern Serbia)***

17.55-18.05

Prpa, B., Rat, M., Bokić, B., Kladar, N., Bijelić, K., Anačkov, G.

**Prpa, B.**, Department of Pharmacy, Faculty of Medicine, University of Novi Sad, Novi Sad, Serbia; Center for Medical and Pharmaceutical Investigations and Quality Control, Faculty of Medicine, University of Novi Sad, Novi Sad, Serbia

***Diversity and distribution of Allium sect. Scorodon Koch 1837. in the flora of Serbia***

**Poster Session 1:**

Taxonomy and Systematics  
Phytogeography, Floristics and Phytoecology  
Genetics, Selection and Biotechnology  
Agriculture, Forestry and Landscape Architecture

**18.30-20.00**

**Friday, May 23<sup>th</sup>, 2025.**

- 1 Bakić, V., Trakić, S., Muratović, E., Đug, S.  
***Botanical characterization of black locust honey samples from Bosnia and Herzegovina***
- 2 Xhulaj, S.  
***Lichenized and lichenicolous fungi from the southernmost areas of Albania***
- 3 Nadarević, V., Mašić, E., Matić, I., Halilović, A.  
***Orchids of Mount Plješevica in Bosnia and Herzegovina – preliminary research***
- 4 Mašić, E., Matić, I., Halilović, A., Nadarević, V.  
***Diversity of cyanobacteria and algae in selected water habitats in the wide area of Mount Plješevica (Bosnia and Herzegovina) – preliminary research***
- 5 Mladenović, Ž., Kuzmanović, N., Lakušić, D., Stojanović, D.  
***Variability of leaf anatomical traits of Gentiana sect. Ciminalis (Gentianaceae) on the Balkan Peninsula***
- 6 Çelik, M.  
***SEM-EDX Analysis of calcium oxalate crystals in the fruit of Scaligeria napiformis (Apiaceae: Apioideae)***
- 7 Çetin, Ö., Çelik, M.  
***Microscopic examination of Pimpinella tripartita Kalen fruits: Anatomy, micromorphology and crystal composition***
- 8 Doğan, N., Çetin, Ö., Çelik, M.  
***A microscopic perspective on Chaerophyllum crinitum Boiss. fruits: Anatomy, surface morphology, and crystal analysis***
- 9 Stojković, J., Mitić, Z., Zlatković, B., Jevtović, S., Stojanović, G.

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Stojković, J., Mitić, Z., Jevtović, S., Zlatković, B., Stojanović, G.

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***The essential oil of nine wild-growing Helichrysum italicum (Roth) G. Don (Gnaphalieae, Asteraceae) populations in Croatia***

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***Pigment content in sunflower and maize treated with sodium cholate, elicitor substance from manure***

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Maksimović, J., Buzurović, U., Buntić, A., Đikanović, N., Pavlović, J., Milinković, M., Knežević, M.

***Improvement of carrot seed germination by Bacillus spp. isolates***

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Filipović, S., Vučenović, I., Đurović, S., Mitić, S., Radović, A.

***Assessment and management of soil fertility for vineyard establishment (Vitis vinifera L.)***

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Filipović, S., Vučenović, I., Đurović, S., Mitić, S., Vasić, A., Radović, A.

***Agrochemical soil analysis for the establishment of strawberry (Fragaria x ananassa Duch) plantations in the Trstenik region***

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Pekeč, S., Milović, M., Drekić, M., Vasić, V., Orlović, S.

***Phenological phases of leafing and leaf fall in stands of sessile oak (Quercus petraea Matt. Liebl.) and pedunculate oak (Quercus robur L.) during 2024.***

## **Phytochemistry and Phytotherapy, Hall 1**

**Saturday, May 24<sup>th</sup>, 2025.**

**Chairs of the section: Matejić, J., Mladenović, M.**

### **Oral Presentations**

10.00-10.10

Simonović, N., Stojanović-Krasić, M., Milenković, L., Ilić, Z., Stanojević, Lj., Cvetković, D., Stanojević, J.

**Simonović, N.**, Faculty of Technology, University of Niš, Leskovac, Serbia

***Optimization of maceration conditions for stems and leaves of Tagetes patula L.***

10.10-10.20

Acar, A.G., Şahin, T., Çamlı, M.C., Severoğlu, Z., Kılıç, Ö., Aşkın, S.

**Severoğlu, Z.**, Department of Biology, Faculty of Science, Marmara University, Türkiye

***The essential oil property of Origanum vulgare subsp. gracile and the biological activities and usage areas of some taxa belonging to the genus Origanum L.***

10.20-10.30

Badalamenti, N., Pavela, R., Maggi, F., Spinozzi, E., Bruno, M.

**Badalamenti, N.**, Department of Biological, Chemical and Pharmaceutical Sciences and Technologies (STEBICEF), University of Palermo, Palermo, Italy; NBFC-National Biodiversity Future Center, Palermo, Italy

***Spectroscopical analyses, cytotoxic and insecticidal effects of Artemisia campestris subsp. variabilis (Ten.) Greuter essential oil and its main components***

10.30-10.40

Stanojević, Lj., Milenković, A., Nikolić, G., Zvezdanović, J., Stanojević, J.

**Milenković, A.**, Faculty of Technology, University of Niš, Leskovac, Serbia  
**Chemical composition and antioxidant activity of *Geranium robertianum* L. leaves hydrolate**

10.40-10.50

Porrello, A., Castagliuolo, G., Vaglica, A., Moscedano, M., Antonini, D., Varcamonti, M., Iardi, V., Bruno, M., Zanfardino, A.

**Porrello, A.**, Department of Biological, Chemical and Pharmaceutical Sciences and Technologies (STEBICEF), University of Palermo, Palermo, Italy  
**Antioxidant and antimicrobial activities of essential oils from the Sicilian (Italy) accession of *Pimpinella peregrina* L.**

10.50-11.00

Acar, A.G., Şahin, T., Çamlı, M.C., Severoğlu, Z., Kılıç, Ö., Aşkın, S.

**Aşkın, S.**, Department of Biology, Institute of Science, Marmara University, Türkiye  
**Essential oil characteristics of *Mentha longifolia* subsp. *typhoides* var. *calliantha* and the biological activities and usage areas of some taxa belonging to the genus *Mentha* L.**

11.00-11.10

Milenković, A., Stanojević, J., Cvetković, D., Nikolić, V., Stanojević, Lj.

**Milenković, A.**, Faculty of Technology, University of Niš, Leskovac, Serbia  
**The reducing power of black pepper (*Piper nigrum* L.) essential oil and hydrolate**

## **Ecology and Environmental Protection, Hall 2**

**Saturday, May 24<sup>th</sup>, 2025.**

**Chairs of the section: Andrejić, G., Stamenković, S.**

### **Oral Presentations**

10.00-10.10

Brzozowski, M., Pelechaty, M.

**Brzozowski, M.**, Department of Ecology and Environmental Protection, Poznań University of Life Sciences, Poznań, Poland  
**Expansion of *Lychnothamnus barbatus* in response to climate change**

10.10-10.20

Stamenković, S., Nešović, S.

**Stamenković, S.**, Department of Biology and Ecology, Faculty of Sciences and Mathematics, University of Niš, Niš, Serbia  
**Air quality in the urban and surrounding area of a mining center in eastern Serbia using lichens as an biological indicators**

10.20-10.30

Čirković, G., Rakonjac, A., Ajtić, R.

**Čirković, G.**, Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac, Serbia  
**From algae to zooplankton: What *Pelophylax* kl. *esculentus* tadpoles eat in the Morava River Basin (Republic of Serbia)**

10.30-10.40

Stanković, N., Meißner, S., Fastner, J., Monaghan, M., Hilt, S.

**Stanković, N.**, Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB), Berlin, Germany; Department of Biology and Ecology, Faculty of Sciences and Mathematics, University of Niš, Serbia

***Ecological and molecular assessment of toxic cyanobacteria in macrophyte-associated biofilms***

10.40-10.50

Savić Zdravković, D., Ilić, M.P., Jovanović, M.D., Stojanović, J., Nikolić, M.

**Savić Zdravković, D.**, Department of Biology and Ecology, Faculty of Sciences and Mathematics, University of Niš, Niš, Serbia; Biological Society "Dr. Sava Petrović", Niš, Serbia

***From fire history to conservation strategy: An integrated biodiversity and risk assessment in Lalinačka slatina***

10.50-11.00

Stanković, N., Kostić Kokić, I., Fideršek Dudić, M., Begović, M., Petronijević, T.

**Stanković, N.**, Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB), Berlin, Germany; Department of Biology and Ecology, Faculty of Sciences and Mathematics, University of Niš, Serbia

***Allopathic potential of microcystin-RR at environmentally relevant concentrations: Species-specific growth responses of cyanobacteria and green microalgae***

## Nature Protection, Hall 1

Saturday, May 24<sup>th</sup>, 2025.

Chairs of the section: Čušterevska, R., Jelić, I.

### Introductory Lectures

12.00-12.15

Jelić, I., Stojanović, V., Tabašević, M.

**Jelić, I.**, Institute for Nature Conservation of Serbia, Belgrade, Serbia

***Protection of the Banat peony (*Paeonia officinalis* subsp. *banatica* (Rochel) Soó) within the outstanding natural landscape Rudnik Mountain***

### Oral Presentations

12.15-12.25

Stojanović, V., Sokolović, D., Niketić, M., Matić, B., Petrović, M.

**Stojanović, V.**, Natural History Museum, Belgrade, Serbia

***Contribution to knowledge of the flora of the Gornjačka gorge***

12.25-12.35

**Stanković, M.**, Pokret gorana Sremska Mitrovica, Sremska Mitrovica, Serbia

***New species in the flora of SNR Zasavica***

12.35-12.45

Joksimović, A., Marković, O., Pešić, A., Četković, I.

**Joksimović, A.**, Institute of Marine Biology-University of Montenegro, Kotor, Montenegro

***New dangerous invasive species of lionfish (*Pterois miles*) on the Montenegrin coast, Adriatic Sea, how to react?***

12.45-12.55

Stojiljković, B., Nedeljković, D., Jotić, B., Zlatković, B.

**Stojiljković, B.**, Institute for Nature Conservation of Serbia, Unit in Niš, Niš, Serbia  
***Rediscovery and conservation of the population of *Hypecoum pseudograndiflorum* (Papaveraceae) at the Niš Fortress***

12.55-13.05

Đurđević, A., Lepojević, I., Stojanović, V.

**Đurđević, A.**, Institute for Nature Conservation of Serbia, Office in Niš, Niš, Serbia  
***Protecting habitat of *Cordulegaster heros* Theischinger, 1979 (Insecta: Odonata) as a strategy for conservation of plant species and their communities***

13.05-13.15

Stojanović, J., Jenačković Gocić, D., Jotić, B., Jovanović, M.D., Nikolić, J., Stojković, J., Pavlović, M.M., Raca, I., Nikolić, D., Jušković, M., Mitić, Z., Zlatković, B.

**Stojanović, J.**, Department of Biology and Ecology, Faculty of Sciences and Mathematics, University of Niš, Niš, Serbia  
***Chasmophytic vegetation of the high-mountain belt of Suva Planina Mt.: A call for conservation efforts***

13.15-13.25

**Stojković, M.**, Institute for Nature Conservation of Serbia, Office in Niš, Niš, Serbia

***Contribution of Professor Siniša Stanković in research and proposals for the protection of the Ohrid Lake between the two World Wars***

13.25-13.35

**Stanković, M.**, Pokret gorana Sremska Mitrovica, Sremska Mitrovica, Serbia

***Overview of the ferns (Pteridophyta) of the Zasavica Special Nature Reserve***

13.35-13.45

Jovanović, M.D., Stojanović, J., Jotić, B., Nikolić, J., Stojković, J., Pavlović, M.M., Raca, I., Jenačković Gocić, D., Nikolić, D., Jušković, M., Mitić, Z., Zlatković, B.

**Jotić, B.**, Department of Biology and Ecology, Faculty of Sciences and Mathematics, University of Niš, Niš, Serbia

***Endangered and protected plant species in the high mountain belt of Suva Planina Mt.: Current state and perspectives***

13.45-13.55

Stojiljković, B., Zlatković, B., Jovanović, M.D., Đorđević, M., Mitić, Z., Tošić, S., Jušković, M.

**Stojiljković, B.**, Institute for Nature Conservation of Serbia, Unit in Niš, Niš, Serbia  
***Priority species, floristic hotspots and their networking: An approach to the long-term conservation of Lalinac Salt Marsh***

13.55-14.05

Damjanović, J., Stanković, M.

**Damjanović, J.**, Pokretu za zaštitu i negovanje reke Bosut, Batrovci, Srbija  
***Floristic values of Mali Bosut Nature Park***

14.05-14.15

Stanković, M., Pekić, A., Simikić, S.

**Pekić, A.**, Udruženje građana "Čuvari Majevice", Lopare, Bosnia and Herzegovina  
***Results of floristic research of Majevac in the territory of the Municipality of Lopare, Bosnia and Herzegovina***

## Poster Session 2:

Ecology and Environmental Protection

Nature Protection

Phytochemistry and Phytotherapy

15.30-17.00

Saturday, May 24<sup>th</sup>, 2025.

1

Nahirnić-Beshkova, A., Shamshev, I., Barták, M., Đorđević, V.

***The first records of the pollinators of *Gymnadenia frivaldii* (Orchidaceae) on the Balkan Peninsula***

2

Jušковиć, M., Jenić, J., Stojanović, J., Nikolić, D., Jenačković Gocić, D.

***Bioindicator potential of *Pinus nigra* J.F. Arnold needles in polluted areas: Morphological and anatomical insights***

3

Pečić, M., Jerinkić, D., Jakovljević, O.

***Water quality assessment of the Čelije reservoir based on periphytic diatoms inhabiting artificial substrate***

4

Popović, S., Jakovljević, O., Savković, Ž., Stupar, M.

***Life under lighting system in Stopić Cave: phototrophs and fungi on artificial substrates***

5

Vukotić, D., Andrejić, G., Kuzmanović, N., Stojanović, J., Jenačković Gocić, D.

***Environmental gradients in wetlands: Soil pH variability and its role in structuring wetland vegetation***

6

Paušič, I., Granda, T.

***Protecting orchid biodiversity in the age of "green energy": First report of the large-scale terrestrial orchid *Neotinea tridentata* Scop. (Orchidaceae) conservation translocation in Slovenia. How to measure it's success?***

7

Tijanić, A., Lazarević, M., Cvetković, V., Mitić, Z., Nikolić, B.2, Nikolić, J., Žikić, V.

***Effects of *Thuja plicata* essential oil on wing morphology in *Drosophila melanogaster****

8

Nastić, M., Jenačković Gocić, D., Nikolić, D., Raca, I., Petronijević, T., Kostić Kokić, I., Anđelković, T., Stanković, N.

***Could cyanobacterial metabolites be responsible for the decline of *Pistia stratiotes* L.?***

9

Stamenković, O., Kostić Kokić, I., Stojković, O., Petrović, M., Anđelković, T., Raca, I.

***The influence of phosphorus enrichment on the growth of *Ceratophyllum demersum* L. in ponds: a mesocosm approach***

10

Nikolić, M., Ilić, M.P., Samardžić, A., Medenica, I., Savić Zdravković, D.

***Evidence-based proposal for boundary revision of Lalinačka slatina using bird diversity data***

11

Andrejić, G., Brajević, S., Stanojković, J., Aleksić, U., Milanović, N.

***Cadmium accumulation and its impact on photosynthetic pigments in basil (Ocimum basilicum)***

12

Jadranin, B., Ćosić, M., Božović, Đ, Ignatov, M., Troitski, A., Vujičić, M., Sabovljević, A., Sabovljević, M.

***Pioneering approaches in ex situ propagation and conservation physiology of the rare moss Podperaea krylovii (Amblystegiaceae)***

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Ćosić, M., Božović, Đ., Jadranin, B., Vujičić, M., Sabovljević, A., Sabovljević, M.

***Optimization of in vitro propagation of the rare and threatened moss Cynodontium tenellum (Schimp.) Limpr. (Rhabdoweisiaceae)***

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Petrović, M., Krstić-Milosević, D., Banjac, N.

***Cytokinins differentially improved shoot multiplication and secoiridoid contents of Gentiana dinarica Beck., an endangered medicinal plant***

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Ćušterevska, R., Stojchevska, C., Cvetanoska, S.V., Ivanova, A.Sh.

***First IUCN Red List assessment of rare and endemic plant species in North Macedonia***

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Jovanović, M.D., Stojiljković, B., Nedeljković, D., Nikolić, M., Zlatković, B.

***New insights into the flora of Baljevski vrhovi - a conservation aspect***

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Matejić, J., Džamić, A., Marković, M., Ivanović, T., Dragičević, A., Pavlović, D.

***Traditional use of medicinal plants for respiratory tract therapy in the urban ecosystem of Niš***

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Dragičević, A., Matejić, J., Stanojević, Lj., Stanojević, J., Pavlović, D.

***Chemical profile of extracted volatile compounds of Ocimum basilicum L. hydrosol***

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Dragičević, A., Stojanović, N., Matejić, J., Pavlović, D.

***Anti-inflammatory and spasmolytic activity of sweet basil hydrosol***

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Žarković, L., Đorđević, J., Matejić, J., Džamić, A.

***Antioxidant and hypoglycemic properties of Rosa micrantha Borrer ex Sm. extracts***

21

Bruno, M., Badalamenti, N., Ilardi, V., Maggi, F., Quassinti, L., Bramucci, M.

***The cytotoxic effects on tumour cell lines of Thymus zygis subsp. gracilis essential oil and its principal constituents***

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Milovanović, M., Savić, I., Savić Gajić, I.

***Total phenolic content and antiradical activity of wild cyclamen (Cyclamen purpurascens Mill.) tuber extract from Southeast Serbia***

- 23 Dorđević, J., Žarković, L., Matejić, J., Džamić, A.  
**Total phenolic content and radical scavenging properties of *Dictamnus albus* L. extracts**
- 24 Milosavljević, K., Zlatković, B., Zvezdanović, J., Lazarević, J.  
**The effect of *Ajuga laxmannii* (L.) Benth. essential oil and its constituents on the inhibition of lipid peroxidation**
- 25 Gocić, V., Zvezdanović, J., Lazarević, J.  
**Antioxidative effects of naturally occurring hydroxychalcones: a lipid peroxidation study**
- 26 Kilibarda S., Mačukanović- Jocić M., Dajić Stevanović Z.  
**Balkan medicinal plants with traditional use in the treatment of eczema and psoriasis**
- 27 Radulović, M., Janačković, P., Dajić- Stevanović, Z., Gavrilović, M.  
**Ethnobotanical survey of usage of the *Artemisia* L. (Asteraceae) plants from southeastern Serbia**
- 28 Nikolić, B., Vuletić, S., Ganić, T., Ignjatijević, A., Anđić, T., Spasović, S.  
**Could the traditional medicinal plants *Gentiana lutea* and *Achillea millefolium* be useful to combat *Listeria monocytogenes* biofilm?**
- 29 Kanjevac, M., Jakovljević, D., Bojović, B., Stanković, M.  
**Effect of foliar application of salicylic acid on the antioxidant capacity of Greek basil (*Ocimum basilicum* var. *minimum*)**
- 30 Jovanović, M., Milutinović, M., Branković, S., Randelović, M., Miladinović, B., Kitić, N., Čujić-Nikolić, N., Šavikin, K., Kitić, D.  
**Extract of *Gentiana asclepiadea* L. in microencapsulated and unencapsulated forms for the treatment of gastrointestinal spasms**
- 31 Kukić-Marković, J., Ranimirović, M., Stojanović, D.  
**Anatomical characterization of the aerial parts of *Capsella bursa-pastoris* (L.) Medik (Brassicaceae)**
- 32 Pećinar, I., Rančić, D., Mačukanović-Jocić, M.  
**Analysis of milky sap content of dandelion (*Taraxacum officinale* F. H. Wigg.) using Raman spectroscopy**
- 33 Savić, A., Alimpić Aradski, A., Stefanović Kojić, J., Jakovljević, D., Gojgić-Cvijović, G., Vrvčić, M.  
**Nutrient composition of indigenous pear cultivars and a commercial variety (Williams Bartlett) cultivated in Serbia**
- 34 Gusinac Avdović, Š., Mladenović, M., Radulović, N.  
**New esters from the essential oil of *Pelargonium graveolens* (Geraniaceae)**

- 35 Gusinac Avdović, Š., Mladenović, M., Radulović, N.  
**Chemical composition of tea tree (*Melaleuca alternifolia*) (Maiden & Betche) Cheel essential oil**
- 36 Bozinovska, A., Dzambazovska, S., Stojov, D., Mancevski, I., Trebichliev, Lj., Hristova, D., Tusevski, O., Gadzovska Simić, S.  
**Shoot cultures as a promising system for cannabinoid production in cannabis (*Cannabis sativa* L.) cultivars**
- 37 Dzambazovska, S., Bozinovska, A., Stojov, D., Mancevski, I., Trebichliev, Lj., Hristova, D., Tusevski, O., Gadzovska Simić, S.  
**Cannabinoid production in shoot cultures of cannabis (*Cannabis sativa* L.) cultivars**
- 38 Pavlović, M., Đelić, G.  
**Evaluation of total phenolic content, flavonoid content, and antioxidant activity of aqueous extracts from *Lithospermum officinale* L.**
- 39 Pavlović, D., Stojanović, S., Tasić-Kostov, M.  
**Propylene glycol as extraction solvent in herbal extracts for topical use- safety/irritation considerations**
- 40 Maksimović, B., Madić, V., Petrović, A., Jakovac, H., Dominović, M., Jušković, M., Mladenović, N., Đorđević, Lj., Vasiljević, P.  
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- 41 Madić, V., Maksimović, B., Petrović, A., Mladenović, N., Manojlović, N., Jušković, M., Đorđević, Lj., Ivić, M., Vasiljević, P.  
***Sennae folium* decoction: A toxicological investigation into cytotoxic and genotoxic properties**
- 42 Milutinović, M., Mladenović, N., Petrović, A., Đorđević, Lj., Jušković, M., Zlatković, B., Maksimović, B., Madić, V., Vasiljević, P.  
**Polyherbal Mixture and angiogenesis: Observations from chick yolk sac membrane assay**
- 43 Petrović, A., Madić, V., Maksimović, B., Stefanović, B., Mladenović, N., Jakovac, H., Dominović, M., Jušković, M., Đorđević, Lj., Vasiljević, P.  
**A-amylase inhibition activity of the polyherbal mixture extract and standard antidiabetic drugs co-treatments**
- 44 Stamenković, J., Petrović, G., Đorđević, A., Velimirović, D.  
**Chemical profile of *Myrrhoides nodosa* (L.) Cannon headspace volatiles obtained from different plant parts**
- 45 Stamenković, J., Petrović, G., Đorđević, A., Velimirović, D.  
**Antibacterial potential of *Achillea coarctata* Poir. essential oils in the treatment of *Salmonella* abony**

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Stojadinović, T., Kanjevac, I., Nešić, M.S., Nešić, M.D., Radulović, N.  
***Surface wax constituents of Helleborus odorus Waldst. & Kit. ex Willd.: A source of structurally diverse lipophilic compounds***
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Kanjevac, I., Stojadinović, T., Nešić, M.D., Nešić, M.S., Radulović, N.  
***Volatile constituents of Bupleurum affine Sadler and Bupleurum prealtum L.***
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Cvetković, A., Nikolić, B., Mitić, Z., Zlatković, B., Stojanović, G.  
***Variability of needle terpenes of Pinus heldreichii Christ (Pinaceae)***
- 49  
Dimitrijević, M., Vasić, L., Raca, I., Radulović, N.  
***Where have the angelates gone? A closer look at Doronicum hungaricum Rchb.f. metabolites***
- 50  
Dimitrijević, M., Mladenović, M., Nešić, M.D., Dekić, M., Raičević, V., Radulović, N.  
***New 2-methoxycuminy l esters from the essential oil of Doronicum columnae Ten.***
- 51  
Nikolić, J., Mitić, Z., Zlatković, B., Stojanović, G.  
***Variability of needle headspace volatiles in natural populations of Abies alba Mill. from North Macedonia***
- 52  
Kukić-Marković, J., Milutinović, V., Ušjak, Lj., Niketić, M., Petrović, S.  
***Phytochemical characterization and antioxidant potential of methanol extracts of two Stachys species***
- 53  
Tasić, M., Zvezdanović, J., Stanojević, Lj., Stanojević, J., Petrović, S., Danilović, B., Cvetković, D.  
***Antimicrobial activity of silver nanoparticles biosynthesized by aqueous extract of blackberry leaves***
- 54  
Stojković, J., Cvetković, A., Nikolić, J.  
***Essential oil variability in Achillea lingulata Waldst. & Kit. (Asteraceae)***
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Vasić, L.R., Nešić, M.D., Radulović, N.  
***Methyl ketones from the essential oil of Humulus lupulus L.: Potential contributors to the aroma and flavor profile of beer***
- 56  
Miladinović, B., Kostić, M., Milutinović, M., Živanović, S., Branković, S., Jovanović, M., Kitić, D.  
***Anthocyanin composition and antioxidant activity of four black currant (Ribes nigrum L.) juices***
- 57  
Zlatković, D., Đorđević Zlatković, M., Raca, I., Radulović, N.  
***Could  $\gamma$ -costyl esters serve as chemotaxonomic markers of Achillea atrata?***
- 58  
Zlatković, D., Radulović, N., Đorđević Zlatković, M., Stojanović, N., Nešić, M.S., Potić Floranović, M., Tričković Vukić, D., Randelović, P.

***Anti-inflammatory and cytotoxic effects of marrubiin: evidence from in vitro and in vivo models***

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Kitić, D., Stanković, J., Randelović, M., Miladinović, B., Milutinović, M., Jovanović, M., Branković, S., Živanović, S.

***The rosmarinic and caffeic acid contents of methanol basil leaves extracts (Ocimum basilicum L.)***

60

Randelović, M., Branković, S., Miladinović, B., Milutinović, M., Jovanović, M., Kitić, N., Živanović, S., Kitić, D.

***Spasmolytic effects of hydroethanolic extract of Salvia sclarea L. on isolated rat trachea***

61

Stojković, O., Otašević, S., Randelović, M., Stojanović-Radić, Z.

***Antifungal, anti-biofilm and synergistic potential of Syzygium aromaticum essential oil against otomycosis-associated Candida spp.***

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Stojanović, D., Zbiljić, M., Marčetić, M., Ćurčić, M.

***Concentration of heavy metals in the leaves of rosemary (Salvia rosmarinus Spenn., Lamiaceae) cultivated in urban habitats of Belgrade***

63

Stojković, O., Otašević, S., Randelović, M., Stojanović-Radić, Z.

***Evaluation of antifungal and anti-biofilm activities of Syzygium aromaticum essential oil and its synergistic potential with nystatin against otomycosis-associated Aspergillus spp.***

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Novaković, A., Karaman, M., Šolaja, V., Šipovac, M., Vukić, M., Vojnović, N., Gavrić, N.

***Ethanol extract of wild mushroom Morchella conica as a source of phenolic compounds: correlation with antioxidant activity and implications for potential functional application***

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Formisano, C., Serino, E., Rigano, D., Tagliatela-Scafati, O., Masullo, M., Lauro, G., Piacente, S., Bifulco, G.

***Biological activity of sesquiterpenes lactones from Centaurea species***

## POSTER PRESENTATIONS

### Traditional use of medicinal plants for respiratory tract therapy in the urban ecosystem of Niš

Matejić, J.<sup>1</sup>, Džamić, A.<sup>2</sup>, Marković, M.<sup>3</sup>, Ivanović, T.<sup>1</sup>,  
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According to the Institute of Public Health, respiratory diseases were the leading health problems in the district of Niš from 2016 to 2022. The aim of this study was to document and preserve the ethnopharmacological knowledge of the population of Niš (Pantelejš, Duvanište, Palilula, Vrežina, Trošarina, Medijana and Ledena Stena) about respiratory diseases. Data were collected through semi-structured, anonymous interviews with 49 participants (35 women, 14 men) who shared their insights on the traditional use of medicinal plants against respiratory disorders. The most commonly treated respiratory conditions were: sore throat (33.82%, 23 reports), cough (27.94%, 19 reports), and bronchitis (20.59%, 14 reports). The study also found that place of residence and gender influenced the selection of plant species. The most frequently mentioned plant families were Lamiaceae (47.06%, 32 reports) and Asteraceae (33.82%, 23 reports). The most commonly used species were *Matricaria chamomilla* (29.41%, 20 reports), *Thymus serpyllum* (16.17%, 11 reports), and *Salvia officinalis* (14.71%, 10 reports). The European Union herbal monographs list recognized *M. chamomilla* and *S. officinalis* for treating mouth and throat disorders, but *T. serpyllum* lacks an official monograph. Despite the availability of modern health services, medicinal plant use remains widespread in the urban ecosystem of Niš.

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