



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

# ABSTRACTS APSTRAKTI

**14<sup>th</sup> Symposium  
on the Flora of Southeastern Serbia  
and Neighboring Regions**

**Kladovo 26 to 29 June 2022**

**14. Simpozijum  
o flori jugoistočne Srbije  
i susednih regiona**

**Kladovo 26. do 29. jun 2022.**

**Niš-Belgrade, 2022**

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

**14<sup>th</sup> Symposium on the Flora of  
Southeastern Serbia  
and Neighboring Regions**

Kladovo, 26<sup>th</sup> to 29<sup>th</sup> June, 2022

Abstracts

14<sup>th</sup> Symposium on the Flora of Southeastern Serbia and Neighboring Regions,  
Kladovo, 26<sup>th</sup> to 29<sup>th</sup> June 2022

## Book of Abstracts

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210

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# PROGRAMME

**Sunday, June 26<sup>th</sup>, 2022**

12.00-15.00 Registration

15.00-16.00 Opening Ceremony

16.00-16.30 Plenary Session

16.30-17.00 Coffee break

17.00-18.30 Session 1 and Session 2

## **Hall 1**

Phytogeography, Floristics and Phytoecology

## **Hall 2**

Taxonomy and Systematics

**Monday, June 27<sup>th</sup>, 2022**

9.00-10.30 Session 3 and Session 4

## **Hall 1**

Phytogeography, Floristics and Phytoecology

## **Hall 2**

Taxonomy and Systematics

10.30-11.00 Coffee break

11.00-13.00 Session 5 and Session 6

## **Hall 1**

Ecology and Environmental Protection

## **Hall 2**

Agriculture, Forestry and Landscape Architecture,  
Genetics, Selection and Biotechnology, Zoology

## **Poster Session 1**

15.00-16.30

Taxonomy and Systematics,  
Phytogeography, Floristics and Phytoecology,  
Nature Protection

## **Poster Session 2**

17.00-18.30

Agriculture, Forestry and Landscape Architecture,  
Genetics, Selection and Biotechnology, Zoology,  
Ecology and Environmental Protection

## **Panel discussion**

19.00-20.00

**Tuesday, June 28<sup>th</sup>, 2022**

9.00-11.00 Session 7 and Session 8

### **Hall 1**

Phytochemistry and Phytotherapy

### **Hall 2**

Nature Protection

## **Poster Session 3a**

11.30-13.00

Phytochemistry and Phytotherapy

13.00-13.30 Pause

## **Poster Session 3b**

13.30-15.00

Phytochemistry and Phytotherapy

15.00-16.00 Lunch break  
16.00 Excursion (Danube boat ride)  
21.00 Conference dinner

**Wednesday, June 29<sup>th</sup>, 2022**

08.00-09.00 Breakfast  
09.00-09.30 Closing ceremony  
10.00 Check out



# Detailed Programme

## Plenary Session, Hall 1

Sunday, June 26<sup>th</sup>, 2022.

15.00-16.00

Opening ceremony

### Plenary Lectures

16.00-16.15

**Ostojić, D.**, Department for Natural Resources, Landscape Values and Spatial Planning  
Documentation, Institute for Nature Conservation of Serbia, Belgrade, Serbia  
***Natural and cultural values of NP Đerdap - concept and protection perspectives***

16.15-16.30

**Milanovici, S.**, Natural Science Department, National Museum of Banat, Huniade Square  
no. 1, Timișoara City, Timiș County, Romania  
***Presence, distribution, and population status of several rare plant taxa in the Portile de Fier Nature Park (Romania)***

16.30-17.00 Coffee break

## Phytogeography, Floristics and Phytoecology, Hall 1

Sunday, June 26<sup>th</sup>, 2022.

**Chairs of the section: Purger, D., Trakić, S.**

### Introductory Lectures

17.00-17.15

Lakušić, D., Kuzmanović, N., Kovačević, J.

**Kuzmanović, N.**, University of Belgrade, Faculty of Biology, Chair of Plant Ecology and  
Phytogeography, Belgrade, Serbia  
***Generalized habitat map of Serbia***

### Oral Presentations

17.15-17.25

Čušterevska, R., Matevski, V., Kostadinovski, M., Mandžukovski, D.

**Čušterevska, R.**, Institute of Biology, Faculty of Natural Sciences and Mathematics, Ss.  
Cyril and Methodius University, Skopje, N. Macedonia  
***Priority habitats on the territory of the Republic of North Macedonia***

17.25-17.35

**Jogan, N.**, University of Ljubljana, Biotechnical Faculty, Dept. Of Biology, Ljubljana,  
Slovenia

***Ferns in the ex-Yu region: do we know them all?***

17.35-17.45

Brujić, J., Koljanin, D., Milanović, Đ., Stupar, V.

**Brujić, J.**, Department of Silviculture, Faculty of Forestry, University in Banja Luka, Banja Luka, Republic of Srpska, Bosnia and Herzegovina

***Some wetland plants in Bosnia and Herzegovina - new records and conservation remarks***

17.45-17.55

Novović, S., Menković, N., Stojanović, V.

**Stojanović, V.**, Institute for nature Conservation of Serbia, Belgrade, Serbia

***New data on the distribution of two protected and one invasive species in the flora of Serbia***

17.55-18.05

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

**Ranimirović, M.**, Natural History Museum, Belgrade, Serbia

***Distribution of Euphorbia sect. Helioscopia Dumort. (Euphorbiaceae) based on the data in Herbarium collections in Belgrade***

18.05-18.15

Anastasiu, P., Sirbu, I.-M., Gavrilidis, A.A., Miu, V.I., Niculae, M.I.

**Anastasiu, P.**, University of Bucharest, Bucharest, Romania

***Alien plant species hot spots in Romania***

18.15-18.25

Tabašević, M., Lakušić, D., Vukojičić, S., Kuzmanović, N.

**Tabašević, M.**, Institute of Botany and Botanical Garden, Faculty of Biology, University of Belgrade, Belgrade, Serbia

***Ruderal vegetation of the class Sisymbrietea in Serbia***

## **Taxonomy and Systematics, Hall 2**

**Sunday, June 26<sup>th</sup>, 2022.**

**Chairs of the section: Rešetnik, I., Anačkov, G.**

### **Introductory Lectures**

17.00-17.15

**Zorić, L.**, Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

***Trends in applied plant anatomy***

### **Oral Presentations**

17.15-17.25

Terlević, A., Temunović, M., Bogdanović, S., Grgurev, M., Ljubičić, I., Rešetnik, I.

**Terlević, A.**, Department of Biology, Faculty of Science, University of Zagreb, Zagreb, Croatia

***Morphological and ecological variability of the Dianthus sylvestris complex (Caryophyllaceae) on the Balkan Peninsula***

17.25-17.35

**Çiftçi, A.**, Botany Division, Department of Biology, Faculty of Science, Istanbul University, Vezneciler, Istanbul, Turkey

***Testing techniques and usefulness of Elliptic Fourier Analysis on Anatomical Sections***

17.35-17.45

Niketić, M., Tomović, G., Buzurović, U., Vuksanović, S., Jakovljević, K., Lazarević, M., Dragičević, S.

**Tomović, G.**, University of Belgrade, Faculty of Biology, Belgrade, Serbia

***Centaurea ozrenii (Asteraceae) - a new and extremely rare species from Serbia***

17.45-17.55

Erol, O., Abudurusuli, A., Çiftçi, A.

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

***Crocus pallasii Goldb. From North to South of Turkey: Just a Phenotypic Variation or Speciation?***

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

**Monday, June 27<sup>th</sup>, 2022.**

**Chairs of the section: Nejc, J., Milanović, Đ.**

### **Introductory Lectures**

09.00-09.15

Papp, B., Lőkös, L.

**Papp, B.**, Hungarian Natural History Museum, Botanical Department, Budapest, Hungary  
***Cryptogam flora (bryophytes and lichens) of Djerdap National Park***

### **Oral Presentations**

09.15-09.25

Marković, A., Schneider, S., Trajanovska, S., Biberdžić, V., Talevska, M., Imeri, A., Blaženčić, J.

**Marković, A.**, Department of Chemistry, Institute of Chemistry, Technology and Metallurgy, University of Belgrade, Belgrade, Serbia

***The Sava Lake – charophyte gem in the heart of Belgrade***

09.25-09.35

Glišić, M., Jakovljević, K., Šinžar Sekulić, J., Lakušić, D., Vukojičić, S., Anačkov, G., Jovanović, S.†

**Glišić, M.**, Unit for Agricultural and Business Studies and Tourism, Academy of Applied Studies Šabac, Šabac, Serbia

***Alien flora of urban habitats in Serbia***

09.35-09.45

Rat, M., Anačkov, G., Bogdanović, S.

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

***The Croatian flora plant material in the Herbarium BUNS***

09.45-09.55

Tmušić, G., Bojčić, S., Anačkov, G.

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

***Mapping urban invasions using Google street view – tree of heaven in Novi Sad***

09.55-10.05

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

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

***Contribution to the orchid flora of Northeast Serbia***

10.05-10.15

Radak, B., Peškanov, J., Bokić, B., Tmušić, G., Obradov, D., Anačkov, G.

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

***Vascular flora of the Special Nature Reserve "Wetlands of the lower Tisa" (Vojvodina, Serbia)***

10.15-10.25

Radak, B., Peškanov, J., Bokić, B., Rat, M., Miljković, P., Beloica, J., Anačkov, G.

**Radak, B.**, Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

***Novelties for the orchid flora of Montenegro***

10.25-10.35

Milanović, Đ., Stupar, V.

**Milanović, Đ.**, University of Banja Luka, Faculty of Forestry, Banja Luka, Bosnia and Herzegovina

***Disentangling the syntaxonomy and nomenclature of Serbian spruce (*Picea omorika* (Pančić) Purk.) communities***

## **Taxonomy and Systematics, Hall 2**

**Monday, June 27<sup>th</sup>, 2022.**

**Chairs of the section: Zorić, L., Tomović, G.**

### **Oral Presentations**

09.00-09.10

Harpke, D., Raca, I., Randelović, V.

**Harpke, D.**, Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben, Germany

***Series Verni Mathew (*Crocus L.*) in Southeastern Europe vol. 1 –resolving the polyploid mess***

09.10-09.20

Raca, I., Harpke, D., Randelović, V.

**Raca, I.**, Department of Biology and Ecology, Faculty of Sciences and Mathematics, University of Niš, Niš, Serbia

***Series Verni Mathew (*Crocus L.*) in Southeastern Europe vol. 2 - matching the cytotypes and morpho-anatomical features with the traditional nomenclature***

09.20-09.30

Bokić, B., Radak, B., Rat, M., Anačkov, G.

**Bokić, B.**, Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia

***Flower dimorphism and ginodioecy of *Mentha longifolia* (L.) L. and *M. spicata* L. from Balkan peninsula and Pannonian Plain – a pilot study***

09.30-09.40

Prijić, Ž., Peškanov, J., Marković, T., Xiuxin, Z., Jingqi, X., Rat, M., Zlatković, B., Panjković, B., Anačkov, G.

**Peškanov, J.**, Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Trg Dositeja Obradovića 2, Novi Sad, Serbia

***Variation in seed morphology of Paeonia L. taxa from Serbia***

09.40-09.50

Gavrilović, M., Oskolski, A., Rančić, D., Trajković, M., Janačković, P.

**Gavrilović, M.**, University of Belgrade, Faculty of Biology, Department of Morphology and Systematics of Plants, Belgrade, Serbia

***Anatomy of Leontopodium nivale subsp. alpinum (Cass.) Greuter (Gnaphalieae, Asteraceae) from Serbia***

## Ecology and Environmental Protection, Hall 1

Monday, June 27<sup>th</sup>, 2022.

**Chairs of the section: Stamenković, S., Nikolić, D.**

### Introductory Lectures

11.00-11.15

Jakovljević, K., Mišljenović, T., Tomović, G., Baker, A., van der Ent, A., Echevarria, G.

**Jakovljević, K.**, Institute of Botany and Botanical Garden, Faculty of Biology, University of Belgrade, Belgrade, Serbia

***Metal hyperaccumulation in plants: State of knowledge and potential for future research***

### Oral Presentations

11.15-11.25

Milovanović, V., Jakovljević, O., Subakov Simić, G., Trbojević, I.

**Milovanović, V.**, University of Belgrade, Faculty of Biology, Institute of Botany and Botanical Garden "Jevremovac", Belgrade, Serbia

***Not so big, yet so important: First insight into the phytobenthic algal diversity of a small pond***

11.25-11.35

Vidović, M., Tosti, T., Nikolić, N., Pantelić, A., Veljović Jovanović, S.

**Vidović, M.**, Institute of Molecular Genetics and Genetic Engineering, Laboratory for Plant Molecular Biology, University of Belgrade, Belgrade, Serbia

***The role of polyphenols, sugars, and cell-wall associated polymers in desiccation tolerance of Ramonda serbica***

11.35-11.45

Ristić, S., Stamenković, S.

**Stamenković, S.**, Department of Biology and Ecology, Faculty of Sciences and Mathematics, University of Niš, Niš, Serbia

***Monitoring of air quality 1997-2020 in the urban area of Prokuplje (southeastern Serbia) using corticolous lichens***

11.45-11.55

Stanković, V., Stanković, M., Perić, R.

**Stanković, V.**, Institute of Criminological and Sociological Research, Belgrade, Republic of Serbia

**Monitoring of Invasive Plant Species in SRP Zasavica**

11.55-12.05

Temunović, M., Ljubičić, I., Bogdanović, S., Rešetnik, I.

Ljubičić, I., Department of Agricultural Botany, Faculty of Agriculture, University of Zagreb, Zagreb, Croatia

**Maxent modelling for predicting the potential distribution of an amphiadriatic plant *Festuca bosniaca* Kumm. et Sendtn. (Poaceae)**

**Agriculture, Forestry and Landscape Architecture, Hall 2**

**Monday, June 27<sup>th</sup>, 2022.**

**Chairs of the section: Stanković, N., Petrov, Đ.**

**Introductory Lectures**

11.00-11.15

Petrov, Dj., Ocokoljić, M.

Petrov, Dj., Department of Landscape Architecture and Horticulture, Faculty of Forestry, University of Belgrade, Belgrade, Serbia

***Picea abies* (L.) H. Karst. morphological characteristics variability in the climate change conditions on Čemernik mountain**

**Oral Presentations**

11.15-11.25

Bobinac, M., Andrašev, S., Šušić, N., Kabiljo, M.

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

**Growth characteristics of sessile oak (*Quercus petraeae* (Matt.) Liebl., Fagaceae) young crop in conditions of small size regeneration areas**

11.25-11.35

Bobinac, M., Andrašev, S., Šušić, N., Radaković, N., Maksimović, M.

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

**The distribution of Tree-of-Heaven (*Ailanthus altissima* (Mill.) Swingle, Simaroubaceae) in the Area of “Đerdap National Park”**

**Genetics, Selection and Biotechnology, Zoology, Hall 2**

**Monday, June 27<sup>th</sup>, 2022.**

**Chairs of the section: Stanković, N., Petrov, Đ.**

**Oral Presentations**

11.35-11.45

Biar, A.K.G., Dođru, B., Mesloub, I., Yurdugül, S.

Yurdugül, S., Bolu Abant İzzet Baysal University, Department of Biology, 14030, Bolu, Turkey

**Determination of various enzymatic activities of *Saccharomyces cerevisiae* grown in Yeast-Potato Dextrose medium supplemented with Oak (*Quercus robur*) leave debris**

11.45-11.55

Marković, G., Brković, D., Đelić, G.

**Marković, G.**, Faculty of Agronomy, University of Kragujevac, Čačak, Serbia  
***Plant material in chub (*Squalius cephalus* L., Cyprinidae) diet***

11.55-12.05

Ćirković, G., Ajtić, R.

**Ćirković, G.**, Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac, Serbia

***Preliminary investigation of tadpoles diet of species *Rana temporaria*, *Rana dalmatina*, *Bufo bufo* and *Bufo viridis* from different localities in Serbia and determination of presence of microplastics***

## Poster Session 1:

Taxonomy and Systematics

Phytogeography, Floristics and Phytoecology

Nature Protection

**15.00-16.30**

**Monday, June 27<sup>th</sup>, 2022.**

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Xhulaj, S.

***Various records of lichens from southeastern Albania***

2

Šovran, S., Mašić, E.

***Diversity of freshwater red algae (Rhodophyta) in Bosnia and Herzegovina***

3

Pašanbegović, A., Zildžić, A., Zimić, A., Mašić, E.

***First records of freshwater epizoic cyanobacteria and algae on two turtles *Trachemis scripta* Thunberg and Schoepff, 1792 (Reptilia, Emydidae) and *Emys orbicularis* Linnaeus, 1758 (Reptilia, Emydidae) identified in selected artificial ponds from Bosnia and Herzegovina***

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Markanović, N., Pašanbegović, A., Zildžić, A., Mašić, E.

***Diversity and ecological properties of epiphytic algae identified from selected macroalgae and aquatic macrophytes in Bosnia and Herzegovina***

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Stoyanov, K., Raycheva, T.

***A study on the chorology of the genus *Iris* L. (Iridaceae Juss.) from Bulgaria***

6

Janković, S., Novaković, J., Marin, P., Rajčević, N., Alimpić Aradski, A.

***Micromorphological traits of four *Clinopodium* taxa from Zlotska gorge, Serbia***

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Nikolić, J., Miljković, M., Zlatković, B., Nikolić, B., Mitić, Z.

***Structural changes of needle epicuticular waxes of *Abies cephalonica* in relation to natural weathering***

8

Rešetnik, I., Doboš, M., Bogdanović, S., Temunović, M., Ljubičić, I., Mucko, M., Frajman, B.

***Cytotype diversity and genome size variation in Festuca varia complex (Poaceae) in south-eastern Europe***

9

Bancheva, S., Petrova, A.

***Citizen participation in the enrichment and maintenance of the collections of the Botanical Garden of BAS***

10

Apostolova-Kuzova, E., Stoyanov, K., Raycheva, T., Naimov, S.

***A comparative assessment of ISSR markers for molecular diversity of subgenus Limniris (Tausch) Spach (Iridaceae Juss.) in Bulgaria***

11

Filis, E., Konstantinou, M., Fotiadis, G., Kyrkas, D., Mantzos, N.

***Contribution to the knowledge of serpentine flora of Northern Pindus in Greece***

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Raca, I., Jovanović, M., Bogdanović, A., Marković, M., Nešić, M., Zlatković, B., Randelović, V.

***Herbarium Moesiacum Niš (HMN) – State of the Art***

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Jovanović, M., Lakušić, D., Gussev, C., Lazarević, P., Zlatković, B.

***Morphological study of the rosette leaves of Sempervivum ciliosum and S. ruthenicum complexes from the Balkan Peninsula***

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Bursać, S., Karanović, D., Zorić, L., Zlatković, B., Luković, J.

***Floral morphometry and microcharacters in Inula, Dittrichia, Limbarda and Pulicaria (Inuleae, Compositae) and their taxonomic implications***

15

Djordjević, V., Kabaš, E., Pantović, Ž., Milovanović, A., Novaković, J., Lazarević, P.

***Orchids of Mt. Zlatibor (western Serbia): distribution and ecological preferences***

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Lazarević, P., Djordjević, V., Stanković, V., Kabaš, E.

***Monitoring of allochthonous and invasive plant species in the Zlatibor Nature Park (western Serbia)***

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Miličević, T.

***Incidence of phytopathogenic fungi on endemic plants in Croatia – general overview***

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***Monitoring of the Trifolio-Brachipodietum rupestris Hodak 1975 association in South Croatia***

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Kunev, G., Lakovski, K.

***On the occurrence of Anogramma leptophylla in Bulgaria***

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Negrea, B.-M., Stoilov-Linu, V.

***Comparative study of the anthropogenic impact on the spread of non-native invasive species Impatiens balsamina L. and Reynoutria japonica Houtt.***

***in the upper basin of the Bistrita and Bistricioara rivers, in the Eastern Carpathians, Romania***

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***Polygonum graminifolium in Serbian flora – distribution and new data***
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***Himantoglossum robertianum (Orchidaceae), a confirmed species in the flora of Bosnia and Herzegovina***
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35

Vukotić, D., Jenačković Gocić, D., Ilić, D., Nikolić, D., Randelović, V.

***Macrophytic vegetation of the Pusta river***

36

Potkonjak, S., Stupar, V.

***Habitat diversity of serpentine area “Protected habitat Gostilj” in the Republic of Srpska (Bosnia and Herzegovina)***

37

Bokić, B., Obradov, D., Peškanov, J., Radak, B., Rat, M., Anačkov, G.

***Diversity of the genus Plantago L. in herbarium BUNS***

38

Stamenković, M., Jušković, M., Nedeljković, D., Stojiljković, B., Raca, I., Randelović, V.

***Hypecoum pseudograndiflorum Petrović (Papaveraceae), critically endangered plant species in the flora of Serbia – state of population, phytocoenological compliance and protection measures***

39

Škondrić, S., Dmitrović, D., Šukalo, G., Miličić, D.

***Two species new for Ramsar site “Bardača Wetland” (Western Balkans) share the same habitat***

40

Nedeljković, D., Stojiljković, B., Jović, D.

***Flora of Golina and Turjačka glama***

41

Karaman, M., Čapelja, E., Rakić, M., Baluban, S., Marković, M., Jovanović, I.

***Biodiversity of fungal species from Tara Mountain***

**Poster Session 2:**

Agriculture, Forestry and Landscape Architecture

Genetics, Selection and Biotechnology

Zoology

Ecology and Environmental Protection

**17.00-18.30**

**Monday, June 27<sup>th</sup>, 2022.**

1

Zorić, L., Živanov, D., Karagić, Đ., Milić, D., Katanski, S., Karanović, D., Luković, J.

***Stem anatomy related to lodging resistance of Vicia species***

2

Kanjevac, M., Bojović, B., Jakovljević, D.

***Seed priming mediated germination improvement physiological performance of radish (Raphanus sativus L.) seedlings***

3

Janošević, D., Vojisavljević, K., Pećinar, I., Mitrović, A.

***Populus x euramericana* tension wood as a model for selection of microscopic methods for rapid screening of cell wall structure in the analysis of plant stem properties**

4

Bartolić, D., Prokopijević, M., Stanković, M., Radotić, K.

***Characterization of Mung bean (Vigna radiata L.) seeds: antioxidant activity, chlorophyll and carotenoid content***

5

Bojčić, S., Tmušić, G., Samardžić, N., Popov, M., Konstantinović, B., Anačkov, G.

***Novel approach to control and suppress invasive weeds in the urban area of Novi Sad***

6

Nagl, N., Kuzmanović, B., Zanetti, F., Vollmann, J., Marjanović Jeromela, A.

***Genetic variation and relationship of spring Camelina accessions of different origin***

7

Žugić Petrović, T., Mladenović, K., Grujović, M., Kolašinac, S., Orović, D.

***Organic sunflower honey from the area of Banat (northeastern Serbia) - physicochemical and microbiological characterizations***

8

Čuković, K., Bogdanović, M., Simonović, A., Todorović, S.

***An efficient Agrobacterium tumefaciens - mediated genetic transformation method for Centaureum erythraea via secondary somatic embryogenesis***

9

Stojičić, D., Tošić, S., Zlatković, B., Blagojević, S., Manić, B., Budimir, S., Uzelac, B.

***Micropropagation of Clinopodium thymifolium (Scop.) Kuntze (Lamiaceae)***

10

Krstić, T., Lozo, J., Stanković, S., Berić, T., Joković, N.

***Rhizosphere of sugar beet as a source of bacteria with plant growth-promoting and biocontrol properties***

11

Krstić, T., Novaković, M., Pešić, S., Žabar Popović, A., Joković, N., Vitorović, J.

***In-vitro antioxidant and anti-inflammatory activities of CBD hemp seed oil***

12

Pavlović, M., Joković, N., Nešić, M., Tošić, S.

***Phytotoxic effect of aluminium on the early vegetation period of Cucumis melo L.***

13

Ćirić, E., Stojanović, D., Pavlović, M.

***Effect of potassium on salinity tolerance in Solanum lycopersicum L. seedlings***

14

Savić, A., Dmitrović, D., Đorđević, M., Pešić, V.

***The use of macroinvertebrate to characterize some ecosystem attributes in springs of southeastern Serbia***

15

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

***Influence of small hydro power plant on diatom community and water quality of the Ljuboviđa River (Serbia)***

- 16 Andrejić, G., Kovačević, M., Aleksić, U., Dželetović, Ž., Rakić, T.  
***Effects of NPK fertilization on absorption of Pb in Miscanthus × giganteus grown on flotation tailings***
- 17 Dorđević, B., Troter, D., Todorović, Z., Veljković, V.  
***Lecithine-based deep eutectic solvent in CaO-catalyzed ethanolysis of black mustard (Brassica nigra L.) seed oil***
- 18 Jovanović, Ž., Marin, M., Radović, S.  
***Nickel (Ni) accumulation in the cells of Alyssum markgrafii - ultrastructural changes***
- 19 Aleksić, U., Lazarević, M., Jakovljević, K., Andrejić, G., Lazarević, P., Tomović, G.  
***Metal accumulation in selected Scleranthus species (Caryophyllaceae) from different types of geological substrates in Serbia***
- 20 Petronijević, T., Stanković, N., Milovanović, A., Milošević, Dj., Mihajilov-Krstev, T.  
***Influence of Microcystin-LR on two phytoplankton species (Nostoc sp. and Coelastrum sp.)***
- 21 Mandić Bulić, T., Landeka, N., Sladonja, B., Poljuha, D., Cvek, M., Uzelac, M., Sudarić Bogojević, M., Grgat, T.  
***Early detection and eradication of Takahashia japonica Cockerell in the city of Pula***
- 22 Bakić, V., Trakić, S., Muratović, E., Đug, S.  
***Pollen of allergenic plants in honey samples from Bosnia and Herzegovina***
- 23 Todorović, M., Stanković, M., Kanjevac, M., Bojović, B., Zlatić, N.  
***Effect of different salts on the germination dynamics of Salvia officinalis L. seeds***
- 24 Novaković, J., Jovanović, B., Jovičić, I., Janačković, P.  
***Detection of flowering plants in winter as a biological indicator of climate change***
- 25 Ćirić, M., Gavrilović, B., Krizmanić, J., Dojčinović, B., Vidaković, D.  
***Diatom community on natural and artificial substrates in soda pans in early spring***
- 26 Stamenković, O., Buzhdygan, O., Milošević, Dj., Čerba, D., Cvijanović, D., Stojković Piperac, M.  
***Drivers of epiphytic macroinvertebrate diversity along human pressure gradient in ponds***
- 27 Tričković, D., Mitić, T., Savić, A.  
***Composition and structure of macroinvertebrate communities in two spring ecosystems in Southeastern Serbia***

28

Nikolić, D., Jušković, M., Savić, A., Jenačković Gocić, D., Raca, I., Randelović, V.  
***The impact of invasive species *Elodea nuttallii* (Planch.) H. St. John on morphological characteristics of *Potamogeton gramineus* L.***

29

Cvijanović, D., Novković, M., Milošević, Dj., Stojković Piperac, M., Čerba, D., Stamenković, O., Damjanović, B., Đurić, B., Popović, D., Anđelković, A., Minucsér, M., Pavić, D., Cyffka, B., Drešković, N., Radulović, S.  
***Assessment of wetlands trophic state using UAV photogrammetry (The Middle Danube, Serbia)***

## Phytochemistry and Phytotherapy, Hall 1

Tuesday, June 28<sup>th</sup>, 2022.

Chairs of the section: Radulović, N., Malenčić, Đ.

### Introductory Lectures

09.00-09.15

Radulović, N., Živković Stošić, M.  
**Radulović, N.**, Department of Chemistry, Faculty of Sciences and Mathematics, University of Niš, Niš, Serbia  
***Primula L. epicuticular waxes - an underexplored source of chemically diverse metabolites***

09.15-09.30

Uzelac, B., Budimir, S., Stojičić, D.  
**Uzelac, B.**, Department of Plant Physiology, Institute for Biological Research "Siniša Stanković" - National Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia  
***Insight into the structure and chemistry of glandular trichomes of selected *Micromeria* and closely related *Clinopodium* species (Lamiaceae): the in vitro culture approach***

### Oral Presentations

09.30-09.40

Sirignano, C., Rigano, D., Formisano, C., Bancheva, S., Bruno, M.  
**Sirignano, C.**, Department of Pharmacy, University of Naples "Federico II", Naples, Italy  
***Phytochemical study on *Centaurea* species collected in Balkan peninsula***

09.40-09.50

Badalamenti, N., Bruno, M.  
**Badalamenti, N.**, Department of Biological, Chemical and Pharmaceutical Sciences and Technologies (STEBICEF), University of Palermo, Palermo (PA), Italy  
***Essential oils as green pesticides***

09.50-10.00

Akhlaghi, H., Department of Chemistry, Azad University, Sabzevar Branch, Sabzevar, Iran  
***Green synthesis of iron nanoparticles using *Mentha piperita* L. extract and investigating its antioxidant properties***

10.00-10.10

Yildiz, S., Yurdugül, S.

**Yurdugül, S.**, Department of Biology, Bolu Abant İzzet BAYSAL University, Bolu, Türkiye  
***Production of a skin cream combined with *Pinus sylvestris*, olive oil, coenzyme Q and milled rice and its characterization***

10.10-10.20

Zlatković, D., Đorđević Zlatković, M., Radulović, N.

**Zlatković, D.**, Department of Chemistry, Faculty of Sciences and Mathematics, University of Niš, Niš, Serbia  
***On the configuration and occurrence of cyclocuparanols: resolving a lasting discrepancy***

10.20-10.30

Živković Stošić, M., Stojković, M., Radulović, N.

**Živković Stošić, M.**, Department of Chemistry, Faculty of Sciences and Mathematics, University of Niš, Niš, Serbia  
***Chemical composition of epicuticular waxes of *Liriodendron tulipifera* L. flowers and leaves***

## Nature Protection, Hall 2

Tuesday, June 28<sup>th</sup>, 2022.

**Chairs of the section: Stojanović, V., Nedeljković, D., Škondrić, S.**

### Introductory Lectures

09.00-09.15

Stojanović, V., Bjedov, I., Jovanović, I., Jelić, I., Obratov-Petković, D., Nešić, M., Nedeljković, D.

**Stojanović, V.**, Institute for Nature Conservation of Serbia, Novi Beograd  
***Invasive alien species in Serbia***

### Oral Presentations

09.15-09.25

**Stanković, M.**, Nature Conservation Movement of Sremska Mitrovica - SNR Zasavica, Sremska Mitrovica

***Findings of alochtone aquatic species *Cabomba caroliniana* A. Gray 1837 in Vojvodina and Mačva***

09.25-09.35

**Stanković, M.**, Nature Conservation Movement of Sremska Mitrovica - SNR Zasavica, Sremska Mitrovica

***New species in Zasavica flora in the period 2013-2021***

09.35-09.45

Petković, A., Jović, D., Nešić, D., Stojiljković, B., Stojković, Z., Ostojić, D., Branković, S., Medenica, I.

**Petković, A.**, Institute for Nature Conservation of Serbia, Belgrade  
***Special natural values and the concept of the outstanding natural landscape "Vardenik" protection***

09.45-09.55

Durović, S., Dorđević, V., Vukojičić, S.

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

***Herbarium as a source of information on protected plant species: specimens of plant taxa included in CITES distributed in Serbia deposited in BEOU***

09.55-10.05

Durović, S., Buzurović, U., Veljić, M., Vukojičić, S., Kabaš, E., Lazarević, P.

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

***Contribution to the inventory of protected plant species in Nature Park Radan***

## Poster Session 3a:

### Phytochemistry and Phytotherapy

**11.30-13.00**

**Tuesday, June 28<sup>th</sup>, 2022.**

1

Kiprovski, B., Malenčić, Đ., Ognjanov, V., Veberič, R., Hudina, M., Mikulič-Petkovšek, M.

***Sugars and organic acids content in unripe and ripe fruits of Sambucus nigra***

2

Kiprovski, B., Malenčić, Đ., Ljubojević, M., Ognjanov, V., Veberič, R., Mikulič-Petkovšek, M.

***Total and individual phenolics in wild and cultivated elderberry during development***

3

Dorđević, N., Mančić, S., Karabegović, I., Stanojević, J., Cvetković, D., Danilović, B., Savić, D.

***Effect of the extraction method on chemical composition and biological activity of basil essential oils (Ocimum basilicum L.)***

4

Boskov, I., Savić Gajić, I., Savić, I.

***Mineral composition of aqueous extract of black locust (Robinia pseudoacacia L.) flowers obtained using microwave-assisted extraction***

5

Srećković, N., Katanić Stanković, J., Mihailović, V., Matić, S.

***Do Lysimachia vulgaris methanol extracts have a DNA protective potential against oxidative damage?***

6

Srećković, N., Katanić Stanković, J., Mihailović, V., Matić, S.

***In vitro protective potential of the Lunaria annua L. aerial part and root extracts against DNA oxidative damage***

7

Bogdanović, S., Zlatković, I., Randjelović, D.

***Antimicrobial activity of oak moss resinoids (Evernia prunastri) on certain clinical isolates***

8

Badalamenti, N., Bruno, M.

**Chemical compositions and antioxidant activities of essential oils, and their combinations, obtained from flavedo by-product of seven cultivars of Sicilian Citrus aurantium L.**

9

Simonović, N., Milenković, A., Stanojević, Lj., Zvezdanović, J., Cvetković, D., Stanojević, J.

**Chemical composition of commercial and isolated essential oils from Tagetes spp. (marigold) flowers**

10

Milenković, A., Simonović, N., Zvezdanović, J., Stanojević, J., Cvetković, D., Stanojević, Lj.

**The influence of the operation conditions on the yield, composition and antioxidant activity of ethanol extracts from cubeb pepper (Piper cubeba L.) fructus**

11

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

**Flavones content in Salvia aethiopis L. ethanolic extracts**

12

Dončić, S., Zvezdanović, J., Troter, D., Konstantinović, S.

**UHPLC-DAD-ESI-MS analysis of the Malus sylvestris (wild apple) leaf infusion**

13

Nikolić, V., Zvezdanović, J., Petrović, S., Savić, S., Konstantinović, S.

**Chemical and mineral composition of Centaurium erythraea infusion**

14

Mitić, Z., Cvetković, V., Nikolić, J., Jovanović, S., Stojanović-Radić, Z., Ickovski, J., Nikolić, B., Zlatković, B., Stojanović, G.

**Chemical profile, antimicrobial properties and toxicological evaluation of the essential oil of Abies cephalonica from Peloponnesus**

15

Mladenović Drinić, S., Dragičević, V., Srdić, J., Anđelković, V., Vukadinović, J.

**Variability of phytochemicals in sweet corn (Zea mays L. saccharata) from Serbia**

16

Radović, J., Kundaković-Vasović, T.

**Lipids in tinder fungus, Fomes fometarius (L.) Fr., Polyporaceae**

17

Lazarević, J., Ilić, K., Zlatković, B., Zvezdanović, J.

**Lipid peroxidation study of simple coumarins isolated from Daphne mezereum (Oleaceae)**

18

Lazarević, J., Gocić, V., Đorđević, A., Stojanović, G.

**Antimicrobial effects of naturally derived hydroxychalcones**

19

Ušjak, Lj., Drobac, M., Niketić, M., Petrović, S.

**Heracleum ternatum from Mt. Durmitor: furanocoumarins, polyphenols and antioxidant activity of leaf and flower extracts**

20

Pavlović, D., Grigorov, M., Stanojević, Lj., Stanojević, J., Cvetković, D., Milutinović, J.

***Composition comparison of thyme and lemon balm hydrolates and essential oils***

21

Pavlović, M., Branković, S., Đelić, G.

***Content of metals, total phenols, flavonoids and antioxidant potential of plant organs of the species *Sanguisorba minor****

22

Zlatanović, I., Dimitrijević, I., Jovanović, S., Ickovski, J., Stojanović, G.

***GC-MS profile of herbal mixture used in Balkan peninsula to eliminate the kidney stones***

23

Radović, J., Kundaković-Vasović, T.

***Anti-alpha amylase activity of *Macrolepiota procera* (Scop.: Fr.) Sing.***

24

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

***Distribution of inflorescence headspace volatiles in fifteen *Achillea taxa* from Serbia***

25

Lazarević, J., Brizzolari, A., Zlatković, B.

***Phytochemical screening and evaluation of DPPH antioxidant potential of selected *Daphne* (Oleaceae) species from Serbia***

26

Grigorov, M., Pavlović, D., Kocić, B., Mladenović-Antić, S., Tasić-Kostov, M., Ilić, D., Milutinović, J.

***Antimicrobial activity of different hydrolates against selected bacterial strains***

27

Ickovski, J., Jovanović, O., Zlatković, B., Đorđević, M., Stepić, K., Ljupković, R., Stojanović, G.

***Correlation between the essential oils' composition and the geographical distances of selected *Artemisia* species growth sites' - Mantel test***

28

Matejić, J., Pavlović, D., Jovanović, M., Žarković, L., Džamić, A.

***Herbal products used in the Sokobanja municipality***

29

Žarković, L., Mileski, K., Matejić, J., Rajčević, N., Džamić, A.

***Total phenolic and ellagic acid content in *Rosa arvensis* leaves and hips extracts***

30

Oalđe Pavlović, M., Lunić, T., Mandić, M., Alimpić Aradski, A., Marin, P., Duletić-Laušević, S.†, Božić Nedeljković, B.

***Antineuroinflammatory and neuroprotective activities of ethanolic extracts of commercial *Lamiaceae* medicinal plants from Serbia***

32

Džamić, A., Matejić, J., Marković, M., Žarković, L., Mileski, K., Marin, P.

***Radical scavenging capacity and total phenolic content of *Ajuga laxmannii* (Murray) Benth.***

33

Milutinović, M., Kostić, M., Miladinović, B., Krstić, V., Kitić, D.

***Herbal medicinal products in hypertension and dyslipidemia therapy: a cross-sectional study among the adults from the Niš region***

34

Stojković, J., Stojanović, G., Stojanović-Radić, Z., Zlatković, B., Ickovski, J., Zlatanović, I., Jovanović, S., Mitić, Z.

***Achillea pseudopectinata essential oil: chemical composition, antimicrobial activity and toxicity toward crustaceans***

35

Mladenović, M., Radulović, N., Stojanović, N.

***The essential oil of Melissa officinalis L. (Lamiaceae): structural elucidation and acute toxicity of new acetals***

36

Mladenović, M., Ristić, M., Radulović, N., Ristić, N., Dekić, V., Dekić, B., Randelović, V.

***Diethyl-ether flower washings of four Dianthus taxa (Caryophyllaceae): Identification of new natural products***

## Poster Session 3b:

### Phytochemistry and Phytotherapy

**13.30-15.00**

**Tuesday, June 28<sup>th</sup>, 2022.**

1

Stojanović-Radić, Z., Dimitrijević, M., Aleksić, A., Stanković, N.

***Antistaphylococcal activity of Thymus vulgaris and Origanum vulgare essential oils: time-lapse kinetics, antibiofilm activity and synergistic potential***

2

Zlatković, D., Đorđević Zlatković, M., Radulović, N.

***Chemical investigation of Microbiota decussata diethyl-ether extract***

3

Đorđević Zlatković, M., Zlatković, D., Radulović, N.

***A comparative study on marjoram essential oils from southeastern Serbia and Egypt***

4

Đorđević Zlatković, M., Zlatković, D., Radulović, N.

***Scilla bifolia L. wax is a source of rare alkane-1,3-diols***

5

Stojković, O., Živković Stošić, M., Radulović, N., Dimitrijević, M., Otašević, S., Stojanović-Radić, Z.

***Antifungal and anti-biofilm activity of Thymus serpyllum essential oil against Aspergillus otomycosis***

6

Stojković, O., Vasić, T., Dimitrijević, M., Stojanović-Radić, Z.

***Antimicrobial, anti-virulence and synergistic potential of Citrus aurantifolia essential oil against Klebsiella spp. and Escherichia coli clinical isolates***

- 7  
Randelović, M., Zlatković, B., Miladinović, B., Milutinović, M., Živanović, S., Branković, S., Kitić, N., Kitić, D.  
**Contents of phenolic acids and flavonoids in *Satureja kitaibelii* Wierzb. Ex Heuff. extracts**
- 8  
Živković Stošić, M., Krstić, M., Radulović, N.  
**Chemical composition of essential oil of *Malabaila aurea* (Sm.) Boiss fruits**
- 9  
Nešić, M., Nešić, M., Radulović, N., Randelović, V.  
**Structure elucidation of new tiglic acid esters from *Bupleurum falcatum* L.**
- 10  
Nešić, M., Nešić, M., Radulović, N.  
**Isolation and identification of secondary metabolites from *Bupleurum affine* Sadler**
- 11  
Marčetić, M., Vidović, B., Samardžić, S., Ilić, T., Božić, D.  
**Chemical composition and prebiotic effect of the fruit of *Prunus spinosa* L., Rosaceae**
- 12  
Jovanović, D., Nešić, M., Radulović, N.  
**Isolation and identification of secondary metabolites from *Acorus calamus* L.**
- 13  
Dimitrijević, M., Nešić, M., Radulović, N.  
**Study of the reaction of *p*-cymene with hydrogen peroxide in trifluoroacetic acid and its usage for the identification of *Doronicum columnae* Ten. secondary metabolites**
- 14  
Radulović, M., Gavrilović, M., Rajčević, N., Janakiev, T., Dimkić, I., Janačković, P.  
**Essential oil composition of different parts of *Artemisia absinthium* and its antibacterial activity against phytopathogenic bacteria**
- 15  
Ivanović, S., Gođevac, D., Simić, K., Anđelković, B., Jovanović, Ž., Rakić, T.  
**NMR metabolomics study of the desiccation and recovery process in the resurrection plants *Ramonda serbica* and *Ramonda nathaliae***
- 16  
Stamenković, J., Đorđević, A., Petrović, G.  
**Chemical profile of *Chaerophyllum temulum* L. headspace volatiles obtained from different plant organs**
- 17  
Petrović, G., Đorđević, A., Stamenković, J.  
**Phytochemical analysis of the *Elaeagnus angustifolia* L. flower hexane extract**
- 18  
Arsenijević, J., Slavkowska, V., Drobac, M., Stojanović, D., Zbiljić, M., Kovačević, N.  
**Comparison of phenolic profiles of *Satureja kitaibelii* Wierzb. ex Heuff. and *Satureja montana* L. (Lamiaceae)**

- 19 Miletić, M., Ivanov, M., Novaković, J., Glamočlija, J., Janačković, P.  
***Anticandidal activity of Centaurea glaberrima***
- 20 Aksić, J., Nikolić, D., Genčić, M., Radulović, N.  
***Two new abietane diterpenes from Lycopus euroapeus L. fruits***
- 21 Aksić, J., Nikolić, D., Genčić, M., Radulović, N., Baldovini, N.  
***NO-scavenging capacity of Helichrysum italicum essential oils and two italdiones***
- 22 Miladinović, B., Kostić, M., Milutinović, M., Živanović, S., Branković, S., Kitić, D.  
***Antioxidant activity and vitamin C content of different red currant (Ribes rubrum L.) juices***
- 23 Novaković, A., Karaman, M., Tomić, J., Krsmanović, N., Peulić, T., Ikonić, P., Stupar, A.  
***Nutritional and phenolic profile of edible mushroom Armillaria mellea (Vahl) P. Kumm. (1871)***
- 24 Milutinović, V., Ušjak, Lj., Niketić, M., Petrović, S.  
***Chemical composition and antioxidant potential of Teucrium scorodonia L. (Lamiaceae) from Serbia***
- 25 Milutinović, V., Ušjak, Lj., Niketić, M., Petrović, S.  
***Chemosystematic significance of triterpenes from dichloromethane extracts of 28 Hieracium L. species from the Balkan Peninsula***
- 26 Zbiljić, M., Stojanović, D., Marčetić, M.  
***The new data on the variability of essential oil of Teucrium montanum L. from Balkan Peninsula***
- 27 Dimitrijević, M., Stojanović-Radić, Z., Stevanović, M., Nešić, M., Radulović, N.  
***Antimicrobial activity and chemical composition of Helichrysum italicum essential oil on isolates of the Staphylococcus aureus and isolates of the genus Candida: time-lapse kinetics and antibiofilm activity***
- 28 Dimitrijević, M., Stojanović-Radić, Z., Pejčić, M., Nešić, M., Radulović, N.  
***Antimicrobial and synergistic effects and chemical composition of the selected essential oils on clinical isolates of the genus Candida***
- 29 Pejčić, M., Stojanović-Radić, Z., Dimitrijević, M.  
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***Antioxidative, antidiabetic and cytoprotective activity of two polyherbal mixtures and five medical plants traditionally used in type 2 diabetes therapy***

on the leaf trichome characterization of four *Clinopodium* taxa collected from the same locality. The leaves of *Clinopodium acinos* (L.) Kuntze, *C. alpinum* (L.) Kuntze subsp. *hungaricus* (Simonk.) Govaerts, *C. vulgare* L. and *C. menthifolium* (Host) Stace were collected in Zlotska Gorge (Serbia), air-dried and subsequently examined by scanning electron microscope. In the leaf indumentum of the investigated samples, both non-glandular and glandular trichomes (peltate and capitate) were observed, showing a clear difference in trichome traits between all examined taxa. All trichome types were notably more abundant on the abaxial leaf surface, with the greatest variability of capitate trichomes, especially in the *C. alpinum* subsp. *hungaricus*. Based on the present results, capitate trichomes show the most potential to be informative for taxa delimitation within the genus *Clinopodium*.

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## Structural changes of needle epicuticular waxes of *Abies cephalonica* in relation to natural weathering

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This is the first report on the structural changes of needle epicuticular waxes of *A. cephalonica* Loudon (Pinaceae) in relation to natural weathering. On the adaxial needle surface where stomata were absent, irregular, often rounded wax structures in form of granules were observed. The amount of granules increased with needle aging, so they were the most present on the oldest (three-year-old) needles. On the abaxial needle surface, where stomata were arranged in longitudinal rows forming two parallel bands, the main wax crystalloids were tubules with a tendency to concentrate within stomatal complexes and between them in the stomatal rows. Namely, tubules were quite dense with reticular aspect inside the stomatal pores, but sparsely present on the epistomatal rims and non-stomatal surfaces of the stomatal bands. In the course of time the tubules reached more advanced stages of

agglomeration, thickening and fusion forming amorphous wax crusts. Therefore, both the tendency of amount of granules to increase and the degree of degradation of tubules into amorphous crusts as the result of natural ageing process were well-documented.

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## **Cytotype diversity and genome size variation in *Festuca varia* complex (Poaceae) in south-eastern Europe**

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*Festuca* L. is a highly diverse genus of grasses and its perennial species constitute important grassland vegetation worldwide. Recent phylogenetic studies revealed two main evolutionary lineages corresponding to broad-leaved and fine-leaved species. Within fine-leaved fescues, the earliest diverging group is *F.* sect. *Eskia*, known also as *F. varia* complex, which includes approximately 20 species. The taxonomic complexity of the group is especially evident in the Balkan Peninsula, from where several narrowly endemic taxa and a number of lower taxonomic entities have been described. The aim of the present study is to explore genome size variation and the incidence of polyploidy within the representatives of *F. varia* complex on the Balkan and Apennine Peninsulas based on comprehensive

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