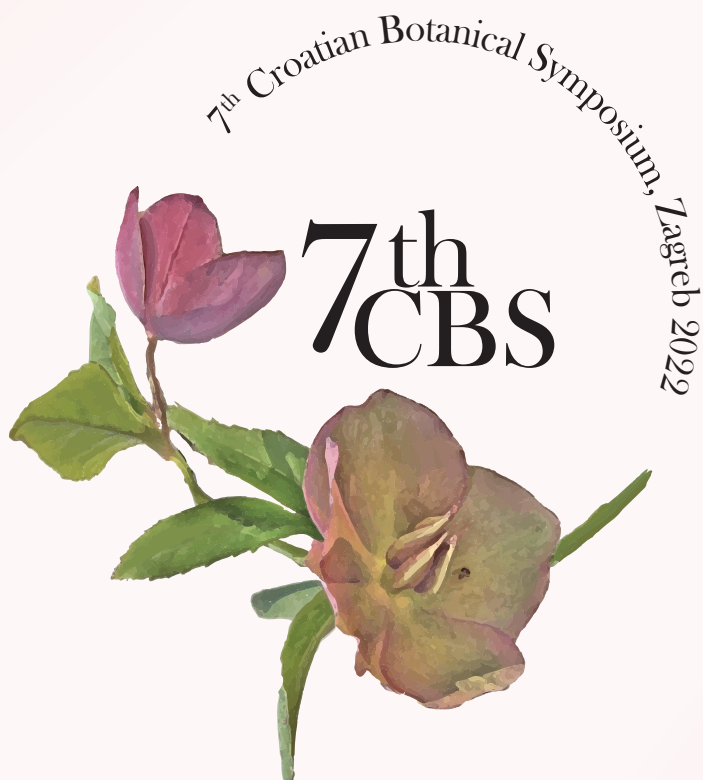


7. Hrvatski botanički simpozij s međunarodnim sudjelovanjem
7th Croatian Botanical Symposium with international participation



**KNJIGA SAŽETAKA
BOOK OF ABSTRACTS**

Zagreb, 12.-14. rujna 2022.
Zagreb, September 12-14, 2022



Hrvatsko botaničko društvo
Croatian Botanical Society
(organizator / organizer)

UREDNICI / EDITORS

Nina Vuković, Vedran Šegota

IZDAVAČ / PUBLISHED BY

Hrvatsko botaničko društvo
Croatian Botanical Society

DIZAJN / DESIGN

Alan Budisavljević

TISAK / PRINT

ALFACOMMERCE d.o.o., Zagreb

NAKLADA / COPIES

100

SPONZORI / SPONSORS



Always green,
now evergreen!



REPUBLIKA HRVATSKA
Ministarstvo znanosti i
obrazovanja



hrzz

projekt: AmphiAdriPlant



montana+

KAL'A

CEDEVITA®

Zagreb

THE CAPITAL OF CROATIA

2. sekcija: EVOLUCIJA, TAKSONOMIJA I FILOGENIJA / 2nd Session EVOLUTION, TAXONOMY AND PHYLOGENY

(under the sponsorship of the *AmphiAdriPlant* project)

Chairs: Sandro Bogdanović & Peđa Janačković

14:30-15:00 **UVODNO PREDAVANJE / KEYNOTE LECTURE:** N. Kuzmanović: DIVERSIFICATION PATTERNS IN SILICEOUS ALPINE PLANTS ON THE BALKAN PENINSULA

15:00-15:15 A. Terlević, M. Temunović, S. Bogdanović, I. Rešetnik: THE CHALLENGE OF SUBSPECIES DELIMITATION IN *Dianthus sylvestris* Wulfen s.l. ON THE BALKAN PENINSULA: INTEGRATIVE APPROACH TO TAXONOMY

15:15-15:30 P. Tokić, A. Terlević, I. Ljubičić, I. Rešetnik, S. Bogdanović: MORPHOLOGICAL VARIABILITY OF THE *Dianthus ciliatus* COMPLEX (CARYOPHYLLACEAE) IN THE ADRIATIC REGION

15:30-15:45 B. Prekalj, Z. Šatović, Z. Liber, S. Goreta Ban, D. Ban, S. Bogdanović: GENETIC STRUCTURE AND DIVERSITY OF THE *Brassica incana* L. (BRASSICACEAE) COMPLEX IN THE MEDITERRANEAN


15:45-16:00 K. Tumpa, I. Poljak, Z. Šatović, Z. Liber, A. Vidaković, M. Ježić, M. Ćurković Perica, M. Idžojić: GENETIC DIVERSITY OF SWEET CHESTNUT (*Castanea sativa* Mill.) POPULATIONS FROM THREE CULTIVATION AREAS IN SUBMEDITERRANEAN CROATIA

16:00-16:15 M. Jug-Dujaković, T. Ninčević Runjić, M. Grdiša, Z. Liber, Z. Šatović: THE STORY OF LAVANDIN (*Lavandula × intermedia* Emeric ex Loisel.) FROM ISLANDS HVAR AND VIS

16:15-16:30 M. Zbiljić, B. Lakušić, N. Kuzmanović, D. Stojanović, D. Lakušić: MORPHOLOGICAL DIVERSIFICATION OF *Teucrium montanum* L. *sensu lato* ON THE BALKAN PENINSULA

16:30-16:45 M. Mucko, M. Temunović, I. Ljubičić, S. Bogdanović, I. Rešetnik: RAD-SEQ IN PLANT PHYLOGEOGRAPHY: CASE STUDY OF *Festuca varia* COMPLEX (POACEAE) ON THE BALKAN PENINSULA

16:45-17:00 Pauza za kavu / Coffee break



Usmena izlaganja

Oral presentations

(EST-SSR) loci were used to explore population diversity and clonality, as well as the population genetic structure. Five closely related clones have been found within the grafted group. Within the ungrafted group, many hybrids resulting from spontaneous cross-pollination between the cultivated and wild chestnuts have been found. Thus, the three analyzed populations have varying levels of diversity and clonality. The analyzed semi-wild orchards defined by a diverse genetic structure represent a hotspot for further selection and could result in the creation of locally adapted, high-yielding varieties of chestnuts.

Keywords: microsatellites, population structure, semi-wild orchards, sweet chestnut, traditional varieties

MORPHOLOGICAL DIVERSIFICATION OF *Teucrium montanum* L. *sensu lato* ON THE BALKAN PENINSULA

Zbiljić M.¹, Lakušić B.¹, Kuzmanović N.², Stojanović D.¹, Lakušić D.²

¹Department of Botany, Faculty of Pharmacy, University of Belgrade, Vojvode Stepe 450, 11 060 Belgrade, Serbia (milos.zbiljic@pharmacy.bg.ac.rs, blakusic@pharmacy.bg.ac.rs, danilo.stojanovic@pharmacy.bg.ac.rs)

²Institute of Botany and Botanical Garden "Jevremovac", Faculty of Biology, University of Belgrade, Takovska 43, 11 221 Belgrade, Serbia (nkuzmanovic@bio.bg.ac.rs, dlakusic@bio.bg.ac.rs)

Teucrium montanum L. is a semi-woody evergreen small shrub distributed in southern and central Europe, Asia Minor, and Algeria in North Africa. The species has a very wide ecological valence occurring in various Mediterranean, sub-Mediterranean, continental as well as oro-Mediterranean and Alpine habitats. Due to its wide ecological valence and broad distribution, *T. montanum* displays high morphological variability, which is reflected in a large number of described taxa associated with it. In Europe, about thirty taxa have been described at specific and infraspecific levels, of which only *T. montanum* subsp. *montanum* and *T. montanum* subsp. *helianthemoides* (Adamović) Baden are accepted, while all the others are considered synonyms of *T. montanum*. The observed morphological diversity is reflected in the presence of six taxa described from the Balkan Peninsula: *T. montanum* subsp. *helianthemoides*, *T. montanum* var. *hirsutum* Boiss., *T. montanum* var. *modestum* Heldr., *T. montanum* var. *parnassicum* Čelak., *T. pannonicum* A. Kern., and *T. skorpili* Velen. During field research throughout the Balkans, seven morphologically more or less well-defined groups with relatively solid geographical differentiation were observed. Five of the seven groups fit the already described infraspecific taxa, while two groups are morphologically specific but do not correspond to the existing taxa. The aim of this study was to describe the overall morpho-anatomical variability of *T. montanum sensu lato* in the Balkans and to determine whether the seven identified groups can be distinguished based on morpho-anatomical characters. The most typical populations of these groups could be separated quite well based on the quantitative morphological traits. Multivariate analysis of all samples showed a solid separation of three groups and a significant number of individuals with intermediate positions. Other groups did not show statistical diversification but possess a specific combination of morphological characters by which they can be identified.