Istraživačka grupa: **Sistematika viših biljaka i fitogeografija**

Herbarijum BUNS
Laboratorija za invazivne i alergijske biljke (LIAP)

Istraživanja vodene, peščarske, stepske i šumske flore i vegetacije, brioflore

Taksonomija i geografija kritičnih grupa biljaka, grupa na specifičnim staništima


Milica Rat, MSci
stručni saradnik u herbarijumu


Jelena Knežević , MSci, PhD student


Boris Radak, MSci, asistent


Marija Kovački, MSci, PhD student


Đurđica Janjić, MSci, PhD student


Bojana Bokić, MSci, asistent


Ana Vestek, MSci, PhD student


dr Goran Anačkov, vanr.prof


Goran Tmušić, MSci, PhD student

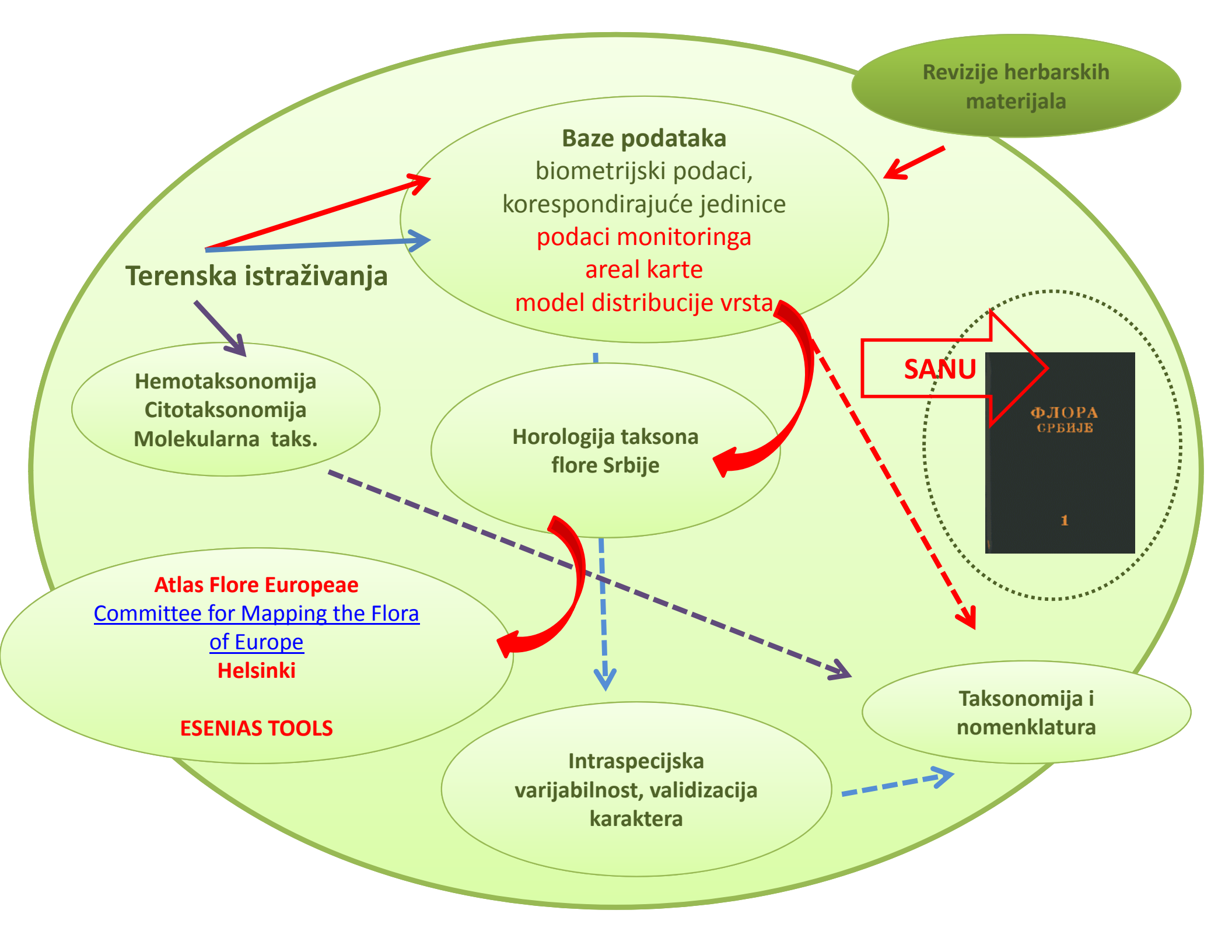
Taksonomija i geografija kritičnih grupa biljaka, grupa na specifičnim staništima

Intraspecijska varijabilnost, diferencijacija i nomenklatura, odabranih taksona, fenotipska plastičnost i distribucija
Liliaceae sensu lato, Orchidaceae, Lamiaceae, Cistaceae, Fabaceae, Rosaceae
(OI 173030)

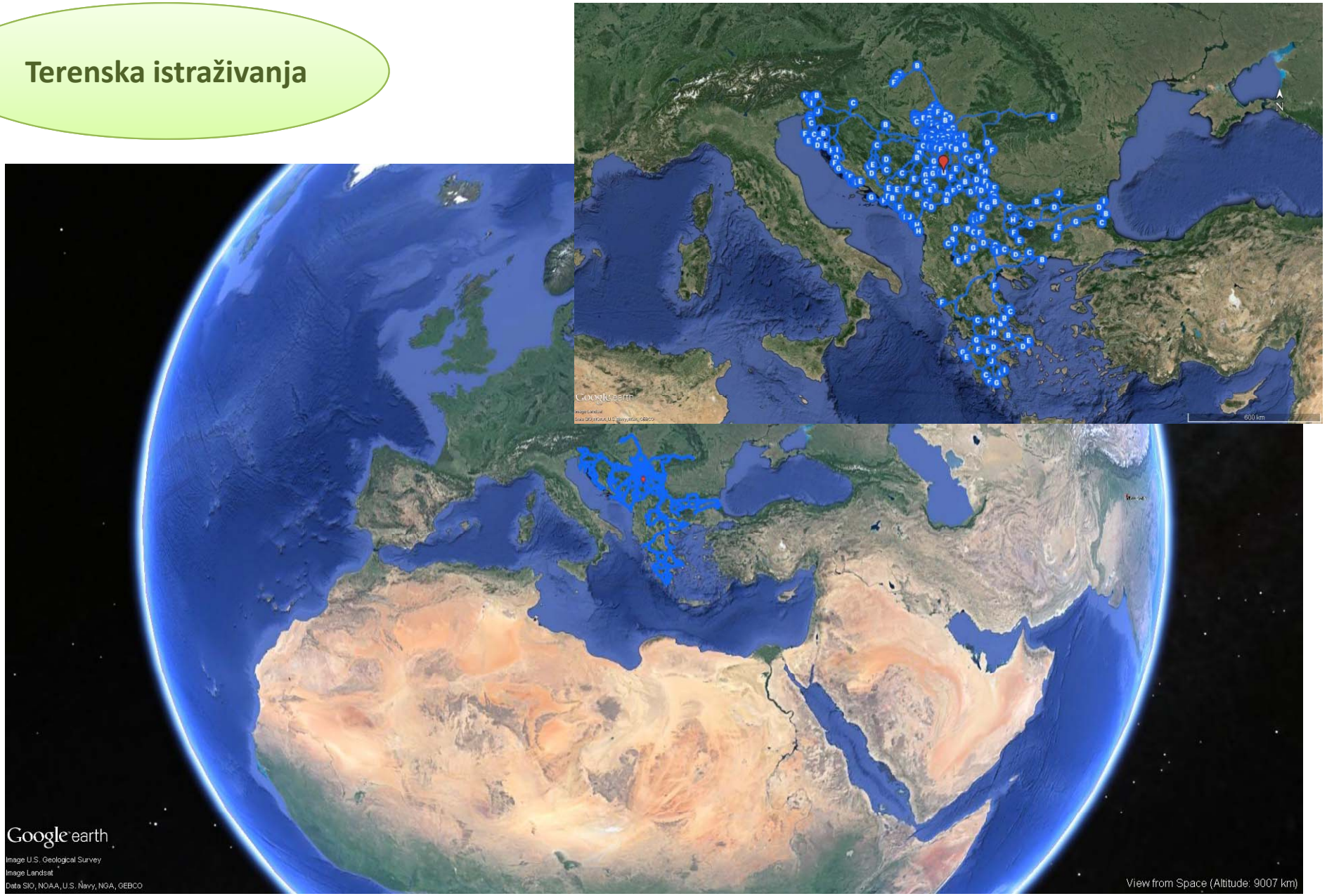
Definisanje karaktera u uspešnijoj taksonomskoj i ekološkoj diferencijaciji (aktivni biomolekuli)
Iznalaženje biljnih resursa za potrebe farmaceutske i prehrambene industrije (OI172058)

Racionalizacija i efikasna upotreba biljnih sirovina na području AP Vojvodine za potrebe farmaceutske i prehrambene industrije
(APV 114-451-2056/2011-03)

Ekologija i geografija invazivnih biljaka
(ESENIAS TOOLS)


Revizije herbarskih materijala
Baze podataka
biometrijski podaci,
korespondirajuće jedinice
podaci monitoringa
areal karte
model distribucije vrsta
Terenska istraživanja
Hemotaksonomija
Citotaksonomija
Molekularna taks.
Horologija taksona flore Srbije
SANU
ФЛОРА СРБИЈЕ
1
Atlas Flore Europeae
Committee for Mapping the Flora of Europe
Helsinki
ESENIAS TOOLS
Intraspecijska varijabilnost, validizacija karaktera
Taksonomija i nomenklatura

Terenska istraživanja



2014+2015+2016 →**Σ 63.000 km** (*Ekvator 40.000 km*)

5.000 herbarskih jedinica autohtone flore na području Balkanskog poluostrva (0 – 2627 m nv)

25.000 uzoraka za morfološka, citogenetička, molekularna i biohemijska istraživanja

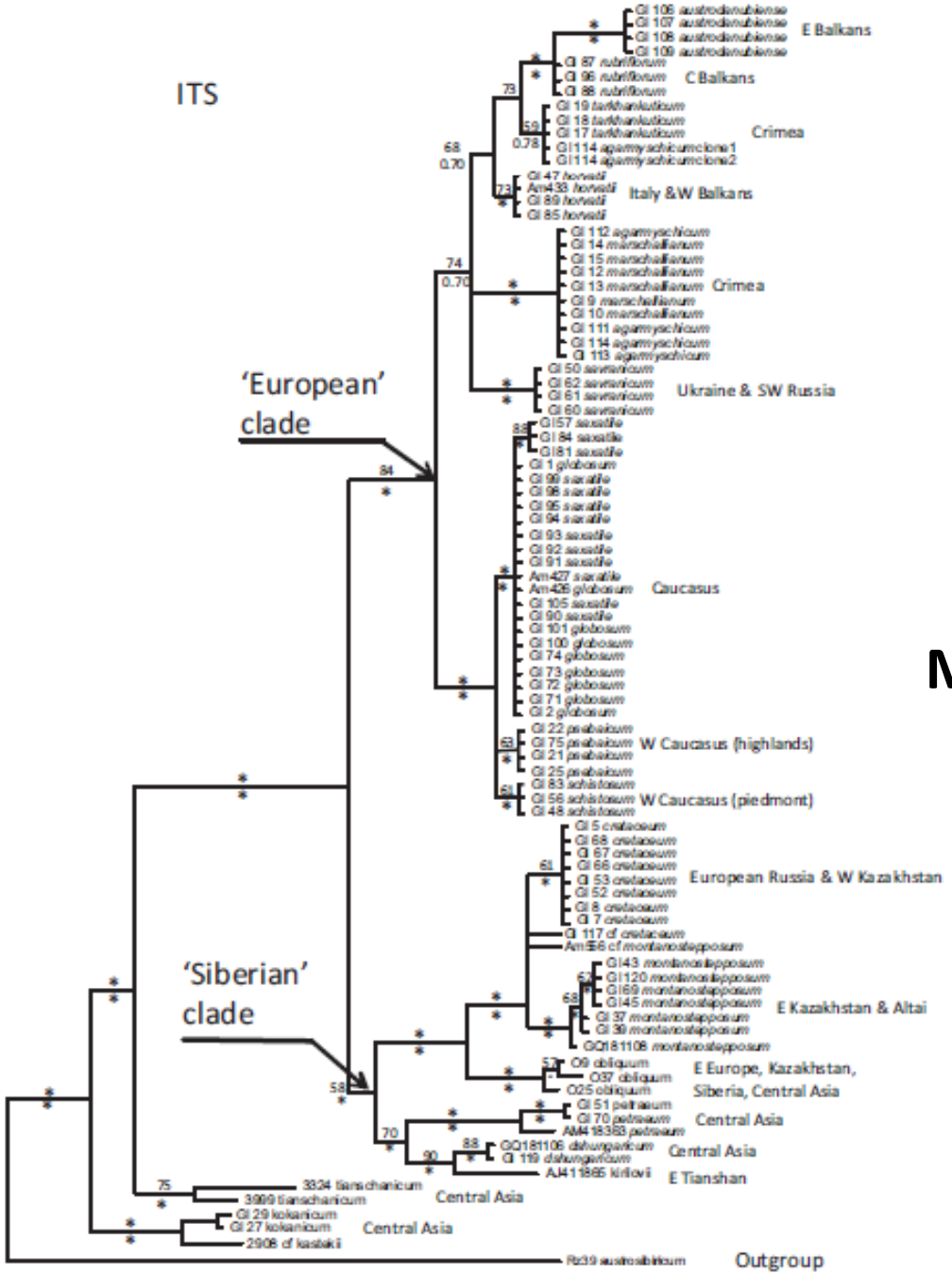


Figure 9. Internal transcribed spacer (ITS) Bayesian consensus tree of the *Allium saxatile* group. Numbers by nodes represent bootstrap support (100 replicates) and Bayesian probabilities. Bayesian probabilities > 0.95 and bootstrap support > 90% indicated with an asterisk (*).

Allium rubriflorum

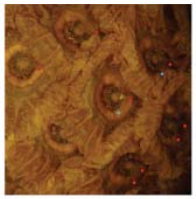
Molekularna i morfološka revizija grupe *Allium saxatile*

Allium horvatii

Tipifikacija i taksonomske beleške za nazive publikovanih od strane Roberta de Visijanija i Josifa Pančića u *Plantae Serbicae Rariores aut Novae — Decas II*

A

B



C

FIGURE 2. A. Lectotype of *Scabiosa achaeta* Vis. & Pančić. B. Three fruits on the lectotypes of *S. achaeta* showing one developed seta (marked in red) and five reduced setae (marked in blue) in total. C. Seven fruits on the lectotype of *Scabiosa fumarioides* Vis. & Pančić showing only eight developed setae (marked in red) and two reduced setae (marked in blue) in total.

Allium serbicum

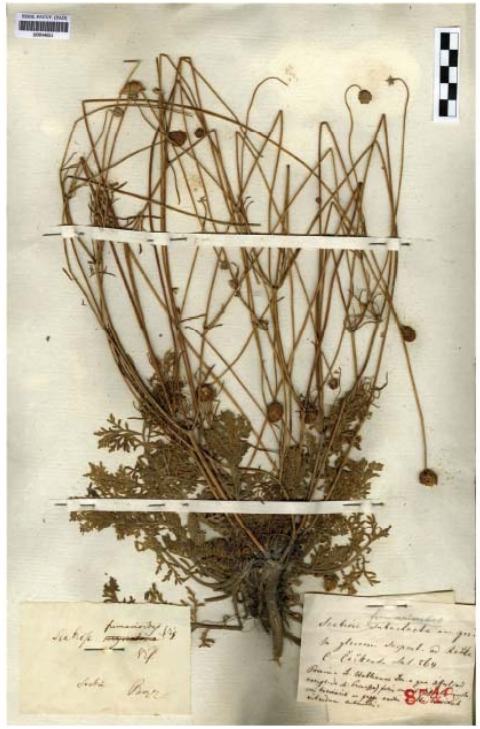
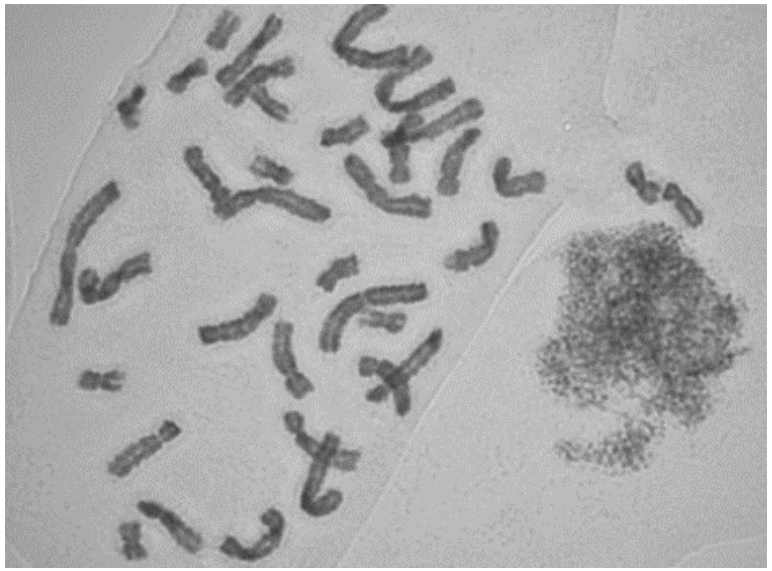


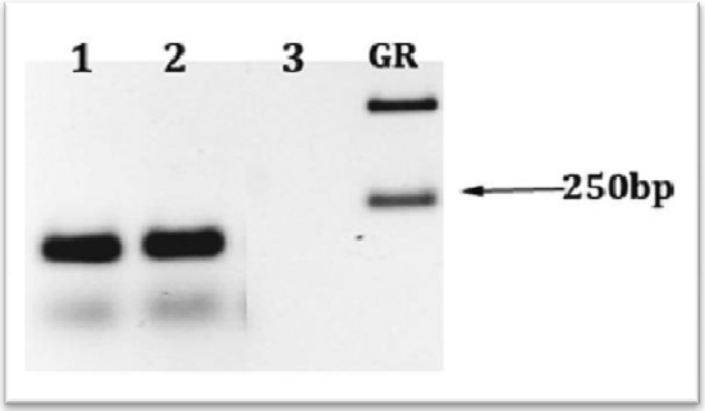
FIGURE 3. Lectotype of *Scabiosa fumarioides* Vis. & Pančić and *S. fumariifolia* Pančić.

Tipifikacija deset naziva vrsta opisanih od strane Roberta de Visijanija i Josifa Pančića u delu *Plantae Serbicae Rariores aut Novae—Decas I* i jedne u delu Flora Kneževine Srbije. Naziv vrste *Scabiosa achaeta* Visiani & Pančić je sinonimiziran sa *S. fumarioides* Visiani & Pančić, dok su za vrste *Allium serbicum* Visiani & Pančić i slične vrste *A. pallens* L. dati diferentni karakteri.

Protokol za izolaciju DNK kod vrsta roda *Ornithogalum* L.

Citotaksonomija vrsta roda *Ornithogalum* L.



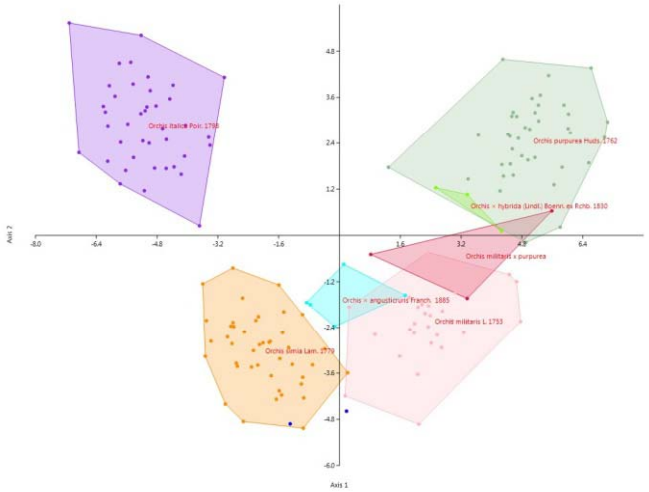


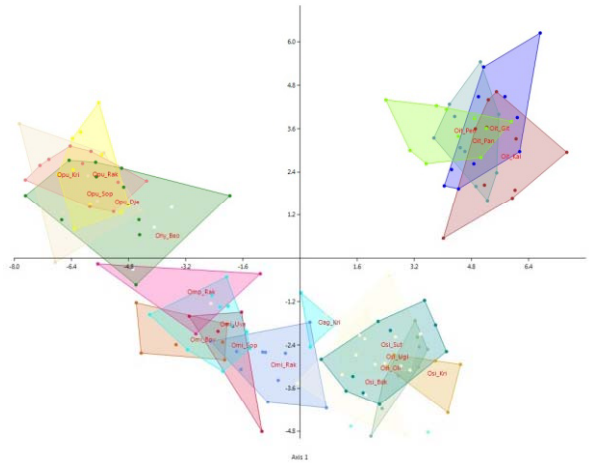
PCR products after amplification of 26S rDNA
1) O. refractum 2) O. sibthorpii 3) neg. control
GR – DNA size marker

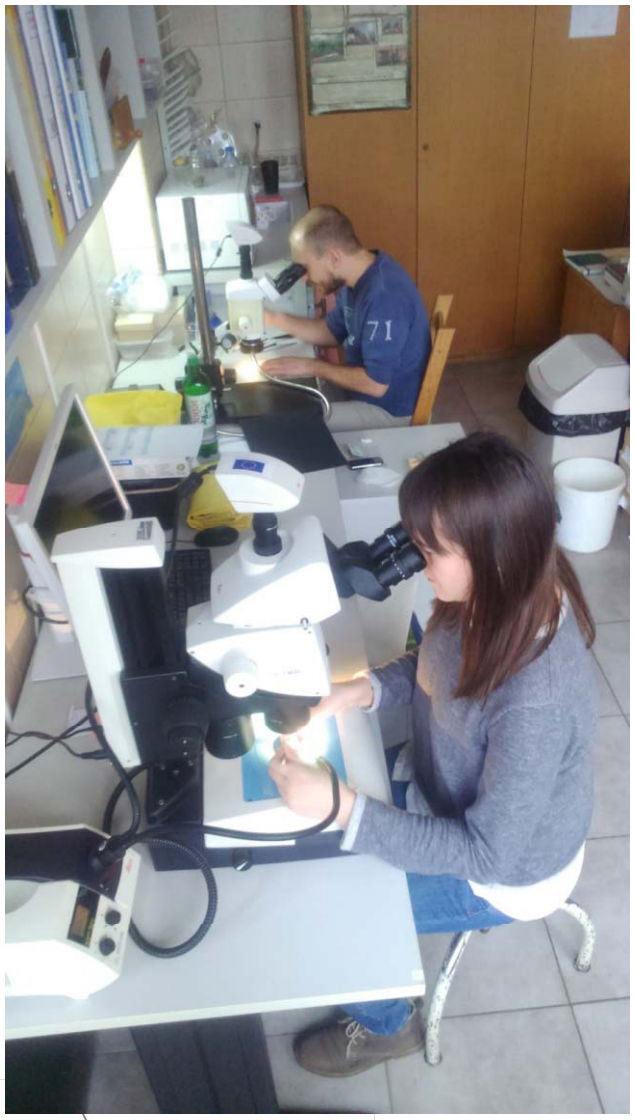
Concentration, yield and absorbance ratio (A260/280 and A260/A230) of genomic DNA from *Ornithogalum sp.*

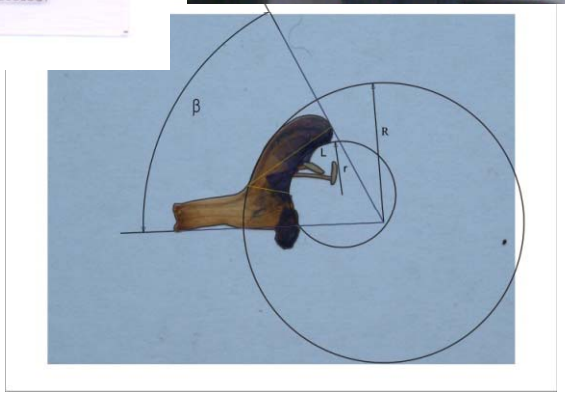
Species	Concentration (ng/µl)	Yield (µg/g tissue)	Absorbance ratio (A260/280)/(A260/A230)
O. refractum	116.5	223	1.879/1.779
O. sibthorpii	156	312	1.753/1.545

Intraspecijska varijabilnost
Linearna i geometrijska morfometrija
Novi karakteri – Novi taksoni
primer antropomorfnih orhideja !!!!!

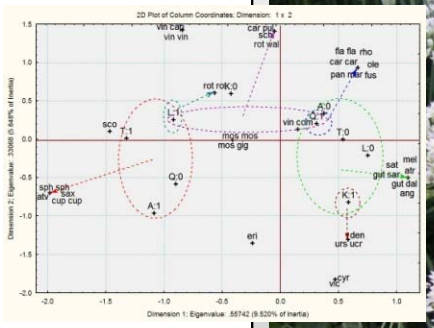






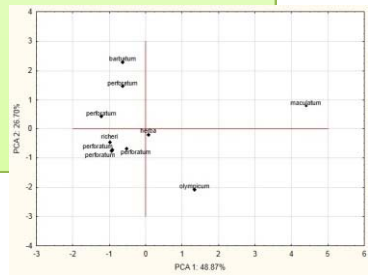


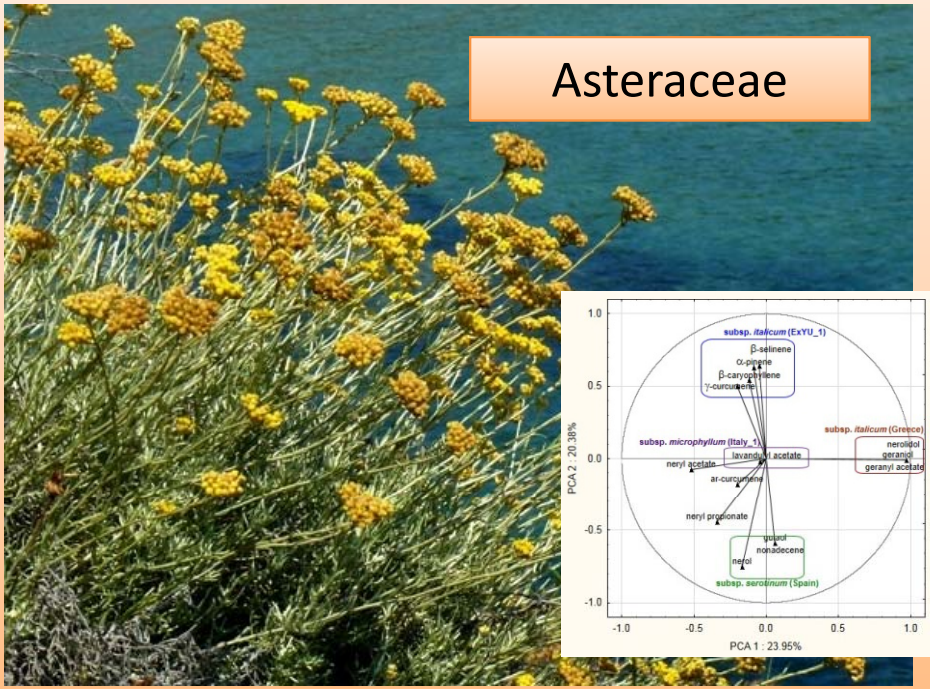
Hypericaceae



rod *Allium*

hemotaksonomija



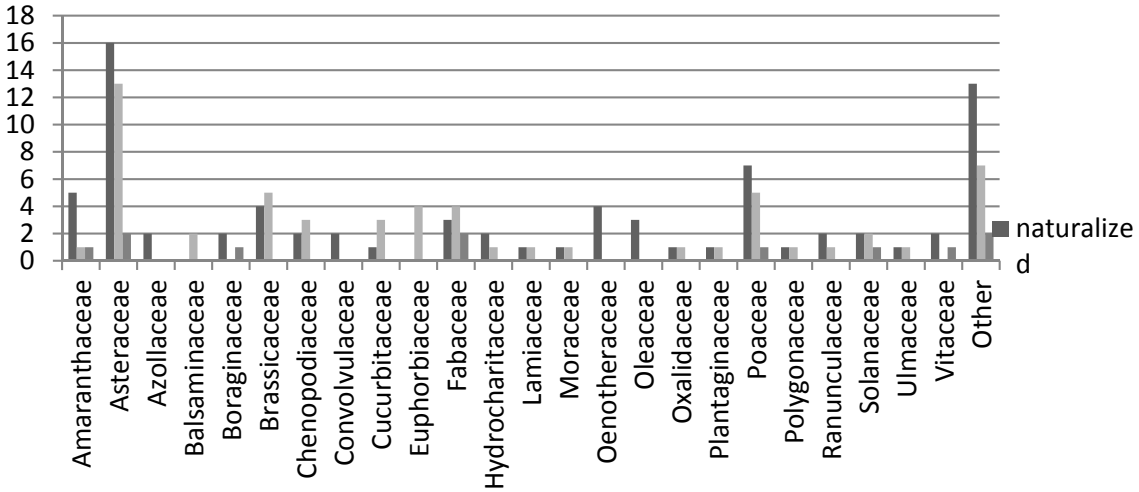


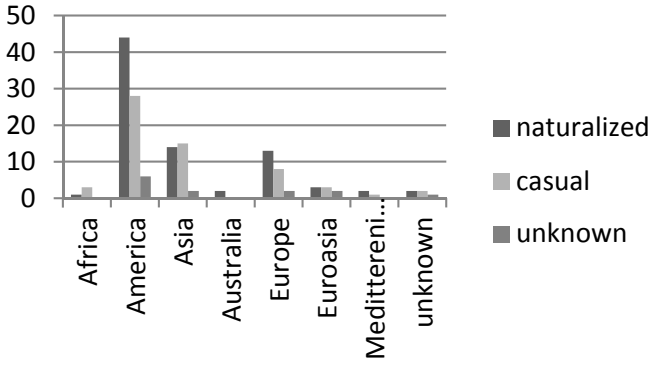
Asteraceae

Lamiaceae

Lista neofita u jugoistočnoj Evropi

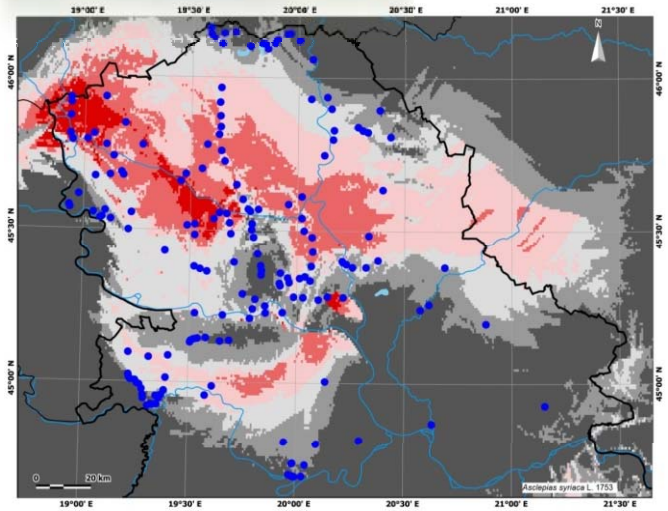
East and South European Network for Invasive Alien Species – a tool to support the management of alien species in South European (ESENIAS-TOOLS)

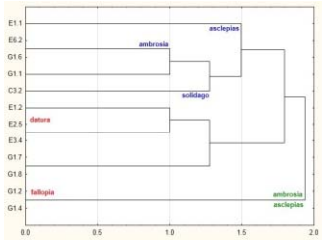




Strane biljne vrste – distribucija, model širenja i ugroženost prirodnih ekosistema

Ascepias syriaca





Plant Cell Tiss Organ Cult
DOI 10.1007/s11240-014-0465-9

ORIGINAL PAPER

High variability in the tissue culture response of root-tips of *Allium ascalonicum* individuals and optimization of the regeneration procedure

Ljiljana Tubić · Goran Anačkov · Jelena Milojević · Nabil Ghalawenji · Nevena Mitić · Ružica Igić · Snežana Zdravković-Korać

The Linnean Society of London — Botanical Journal of the Linnean Society

Botanical Journal of the Linnean Society, 2015, **178**, 67–101. With 10 figures

Molecular and morphological revision of the *Allium saxatile* group (Amaryllidaceae): geographical isolation as the driving force of underestimated speciation

ALEXEY P. SEREGIN[1]*, GORAN ANAČKOV[2] and NIKOLAI FRIESEN[3]

[1]*Herbarium, Department of Geobotany, Faculty of Biology, M.V. Lomonosov Moscow State University, 119991 Moscow, Russia*
[2]*Department of Biology and Ecology, University of Novi Sad, 21000 Novi Sad, Serbia*
[3]*Botanical Garden, University of Osnabrück, 49076 Osnabrück, Germany*

Braz. J. Bot
DOI 10.1007/s40415-015-0177-3

CrossMark

Ecologically and ontogenetically induced variations in phenolic compounds and biological activities of *Hypericum maculatum* subsp. *maculatum*, Hypericaceae

Nebojša Kladar[1] · Branislava Srđenović[1] · Nevena Grujić[1] · Bojana Bokić[2] · Milica Rat[2] · Goran Anačkov[2] · Biljana Božin[1]

Phytotaxa 224 (1): 029–044
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Article

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http://dx.doi.org/10.11646/phytotaxa.224.1.2

Typification and taxonomical notes on the names published by Roberto de Visiani and Josif Pančić in *Plantae Serbicae Rariores aut Novae—Decas II*

MORENO CLEMENTI[1]*, GORAN ANAČKOV[2], ANTONELLA MIOLA[1] & SNEŽANA VUKOJIČIĆ[3]

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[2] *Department of Biology and Ecology, Faculty of Science, University of Novi Sad, Trg Dositeja Obradovića 2, 21000 Novi Sad, Serbia; e-mail: goran.anackov@dbe.uns.ac.rs*
[3] *Institute of Botany and Botanical garden Jevremovac, University of Belgrade, Takovska 43, Serbia*
* *author for correspondence*

VERSITA

Cent. Eur. J. Biol. • 8(10) • 2013 • 1032-1047
DOI: 10.2478/s11535-013-0225-8

Central European Journal of **Biology**

Alien invasive neophytes of the Southeastern part of the Pannonian Plain

Research Article

Goran T. Anačkov[1,*], Milica M. Rat[1], Boris Dj. Radak[1], Ružica S. Igić[1], Dragana M. Vukov[1], Marko M. Rućando[1], Mirjana M. Krstivojević[1], Snežana B. Radulović[1], Dušanka Lj. Cvijanović[1], Dubravka M. Milić[1], Biljana I. Panjković[2], Klara L. Szabados[2], Ranko D. Perić[2], Alen M. Kiš[2], Vida R. Stojšić[2], Pal P. Boža[1]

Botanica SERBICA 38 (1): (2014) 185-189

Original Scientific Paper

A simple and efficient DNA isolation method for *Ornithogalum* L. species (Hyacinthaceae, Asparagales)

Milica Rat[1], Živko Jovanović[2]*, Nemanja Stanisavljević[2], Boris Radak[1], Bojana Bokić[1], Svetlana Radović[3] and Goran Anačkov[1]

1 University of Novi Sad, Faculty of Sciences, Department of Biology and Ecology, Trg Dositeja Obradovića 2, 21000 Novi Sad, Serbia

2 University of Belgrade, Institute of Molecular Genetics and Genetic Engineering, Plant Molecular Biology Lab, P.O.Box 23, 11010 Belgrade, Serbia

3 University of Belgrade, Faculty of Biology, Studentski trg 3/II, 11000 Belgrade, Serbia

Biochemical Characterization of *Helichrysum italicum* (Roth) G.Don subsp. *italicum* (Asteraceae) from Montenegro: Phytochemical Screening, Chemotaxonomy, and Antioxidant Properties

by **Nebojša V. Kladar***[a]), **Goran T. Anačkov**[b]), **Milica M. Rat**[b]), **Branislava U. Srđenović**[a]), **Nevena N. Grujić**[a]), **Emilia I. Šefer**[a]), and **Biljana N. Božin**[a])

[a]) Department of Pharmacy, Faculty of Medicine, University of Novi Sad, Hajduk Veljkova 3, RS-21000 Novi Sad (phone/fax: +381-21-422760; e-mail: nebojsa.kladar@gmail.com)
[b]) Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Trg D. Obradovića 2, RS-21000 Novi Sad (phone/fax: +381-21-4852666)