



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

ABSTRACTS

**15th Symposium
on the Flora of Southeastern
Serbia and Neighboring
Regions**

Niš 23 to 25 May 2025

Niš, 2025

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

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

Abstracts

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

Book of Abstracts

Publishers

**Department of Biology and Ecology, Faculty of Sciences and Mathematics,
University of Niš**

Organizers

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

Editors

Danijela Nikolić, Zorica Stojanović-Radić, Dragana Jenačković Gocić

Scientific Committee

Danijela Nikolić, Serbia, President

**Antun Alegro, Croatia
Beata Papp, Hungary
Bojan Zlatković, Serbia
Biljana Nikolić, Serbia
Biljana Panjković, Serbia
Chavdar Gushev, Bulgaria
Danijela Stešević, Montenegro
Dörte Harpke, Germany
Dinko Zima, Croatia
Dmitar Lakušić, Serbia
Dragana Vukov, Serbia
Dragana Ostojić, Serbia
Dragana Stojičić, Serbia
Gordana Tomović, Serbia
Goran Anačkov, Serbia
Ivana Rešetnik, Croatia
Lana Zorić, Serbia
Lulëzim Shuka, Albania
Marko Sabovljević, Serbia
Marina Jušković, Serbia
Marjan Niketić, Serbia**

**Martina Temunović, Croatia
Michal Hroneš, Czech Republic
Milan Stanković, Serbia
Mirjana Ocokoljić, Serbia
Nejc Jogan, Slovenia
Nedeljko Manojlović, Serbia
Nevena Kuzmanović, Serbia
Niko Radulović, Serbia
Osman Erol, Türkiye
Perica Vasiljević, Serbia
Renata Čušterevska, Macedonia
Sanja Đurović, Serbia
Siniša Škondrić, Bosnia & Herzegovina
Sretco Milanovici, Romania
Tatjana Mihajilov-Krstev, Serbia
Tsvetanka Raycheva, Bulgaria
Verica Stojanović, Serbia
Vladimir Vladimirov, Bulgaria
Zorica Mitić, Serbia**

**Printed by
Unigraf-X-Copy Niš
Number of copies
210**

Niš, 2025

include Oblačinsko Lake and adjacent saltmarsh fragments to ensure long-term protection of critical bird populations and their habitats.

Acknowledgements: Part of the data presented in this study was collected through the project "Ecotoxicological Assessment of Northern Lapwing (*Vanellus vanellus*) Breeding Sites: Unraveling Contaminant Impact in Lalinačka Saltmarsh Area, Serbia", led by Marko Nikolić and funded by The Waterbird Society. We gratefully acknowledge their support.

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

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

Department of Radioecology and Agricultural Chemistry, Institute for the Application of Nuclear Energy INEP, University of Belgrade, Banatska 31b, Belgrade, Serbia

* gordanaa@inep.ac.rs

Metals are the most common source of soil pollution. Cadmium is considered to be one of the most toxic elements, which has a negative effect on biological processes in humans, plants and animals. Elevated Cd concentrations in soil are due to human activities such as mining, coal extraction, burning of fossil fuels, industrial activities, constant use of pesticides and fertilizers etc. A reduction in the levels of potentially toxic elements in the soil can be achieved by growing plants that can tolerate and absorb high concentrations of pollutants. In this study *Ocimum basilicum* L. was grown for two months in soils spiked with 1, 5, and 10 mg Cd/kg soil. With increasing Cd concentration in the soil, the concentration in the roots increased significantly and proportionally to the soil concentration. The results show that an increasing Cd concentration leads to a decrease in the concentrations of Chl a, Chl b and total carotenoids. These results suggest that basil may be a candidate for phytostabilization of Cd-contaminated soils due to its limited ability to tolerate and accumulate cadmium in the shoots. Further research is needed to investigate possible physiological and biochemical mechanisms that influence the response of basil to cadmium stress.

Acknowledgements: This research was supported by the Ministry of Science, Technological Development and Innovation of the Republic of Serbia (Grant No. 451-03-136/2025-03/200019) and SAIGE project.

**CIP - Каталогизација у публикацији
Народна библиотека Србије, Београд**

581.9(4-924.64)(048)

581.5(4-924.64)(048)

615.322:582(4-924.64)(048)

**SYMPOSIUM on the Flora of Southeastern Serbia and Neighbouring
Regions (15 ; 2025 ; Niš)**

[Book of] Abstracts / 15th Symposium on the Flora of Southeastern
Serbia and Neighboring Regions, Niš, 23th to 25th May, 2025 ;
[organizers] University of Niš, Faculty of Sciences and Mathematics,
Department of Biology and Ecology [and] Institute for Nature
Conservation of Serbia [and] Science Technology Park Niš ; [editors
Danijela Nikolić, Zorica Stojanović-Radić, Dragana Jenačković Gocić]. -
Niš : Faculty of Sciences and Mathematics, Department of Biology and
Ecology, 2025 (Niš : Unigraf-X-Copy). - 193 str. ; 21 cm

Tiraž 210. - Registar.

ISBN 978-86-6275-176-8 (FSM)

a) Флора -- Балканско полуострво -- Апстракти b) Биљне заједнице --
Балканско полуострво -- Апстракти v) Лековите биљке -- Балканско
полуострво -- Апстракти

COBISS.SR-ID 168629001