



**XII INTERNATIONAL SYMPOSIUM ON
AGRICULTURAL SCIENCES**

BOOK OF ABSTRACTS

BOOK OF ABSTRACTS



**XII INTERNATIONAL
SYMPOSIUM ON
AGRICULTURAL SCIENCES**

**24-26, May, 2023
Trebinje
Bosnia and Herzegovina**

BOOK OF ABSTRACTS



XII International Symposium on Agricultural Sciences "AgroReS 2023"
24-26. May, 2023; Trebinje, Bosnia and Herzegovina

Publisher

University of Banja Luka
Faculty of Agriculture
University City
Bulevar vojvode Petra Bojovića 1A
78000 Banja Luka, Republic of Srpska, B&H

Editor in Chief

Branimir Nježić and Biljana Kelečević

Technical Editors

Danijela Kuruzović

Edition

Electronic edition

CIP - Каталогизacija y publikaciji
Народна и универзитетска библиотека
Републике Српске, Бања Лука

631(048.3)(0.034.2)

INTERNATIONAL Symposium on Agricultural Sciences (12 ;
Trebinje ; 2023)

Book of Abstracts [Електронски извор] / XII International
Symposium on Agricultural Sciences "AgroReS 2023", 24-26 May,
2023, Trebinje, Bosnia and Herzegovina ; [editor in chief Branimir
Nježić and Biljana Kelečević]. - Banja Luka : Faculty of Agriculture
= Poljoprivredni fakultet, 2023. - 1 USB

Sistemski zahtjevi: Nisu navedeni. - Dostupno i na:
<https://agrores.net/>. - Nasl. sa nasl. ekrana. - Na nasl. str.: AgroRes
2023. - El. publikacija u PDF formatu opsega 260 str. - Tiraž 200.

ISBN 978-99938-93-88-2

COBISS.RS-ID 138380545

SUPPORTED BY

Ministry for Scientific and Technological Development, Higher Education and Information Society of the Republic of Srpska;
Ministry of Agriculture, Forestry and Water Management of the Republic of Srpska.

ORGANIZING COMMITTEE

President

Branimir Nježić, PhD

Secretary

Biljana Kelečević, PhD

Members:

Siniša Mitrić, PhD; Novo Pržulj, PhD; Željko Vaško, PhD; Danijela Kondić, PhD; Ilija Komljenović, PhD; Borut Bosančić, PhD; Svetlana Zeljković, PhD; Đorđe Savić, PhD; Petar Nikolić MA; and Danijela Kuruzović.

SCIENTIFIC COMMITTEE

Novo Pržulj, president - *B&H*, Adrian Asanica – *Romania*, Marina Antić – *B&H*, Hrabrin Bašev - *Bulgaria*, Klime Beleski – *North Macedonia*, Muhamed Brka - *B&H*, Zoran Bročić – *Srbija*, Claudiu Bunea – *Romania*, Geza Bujdosó - *Hungary*, Maria João Carvalho – *Portugal*, Miljan Cvetković – *B&H*, Jelena Čukanović – *Serbia*, Duška Delić - *B&H*, Arkadiusz Dyjakon – *Poland*, Diana Dumitras – *Romania*, Ivica Đalović - *Serbia*, Ivan Djuric – *Germany*, Zorica Đurić - *Australia*, Hamid El Bilali - *Italy*, Sezai Ercisli – *Turkey*, Buta Erzsebet – *Romania*, Daniel Falta – *Czech Republic*, Vesna Gantner - *Croatia*, Nikola Grujić – *Serbia*, Lari Hadelan – *Croatia*, Snježana Hrnčić – *Montenegro*, Attila Jambor - *Hungary*, Ivana Janeska Stamenkovska – *North Macedonia*, Andrei Jean-Vasile – *Romania*, Mugurel Jitea – *Romania*, Stoja Jotanović – *B&H*, Tatjana Jovanović-Cvetković – *B&H*, Romina Kabranova – *North Macedonia*, Radovan Kasarda - *Slovakia*, Desimir Knežević – *Srbija*, Ilija Komljenović – *B&H*, Danijela Kondić – *B&H*, Pavel Kotyza – *Czech Republic*, Zlatan Kovačević - *B&H*, Željko Lakić – *B&H*, Ivana Majić - *Croatia*, Ana Marjanović-Jeromela - *Serbia*, Mile Markoski – *North Macedonia*, Dimitrije Marković – *B&H*, Mihajlo Marković – *B&H*, Milan Marković - *Montenegro*, Zoran Marković - *Serbia*, Aleksandra Martinovska-Stojčeska – *North Macedonia*, Jegor

Miladinović – *Serbia*, Stanislav Minta – *Poland*, Siniša Mitrić – *B&H*, Đorđe Moravčević – *Serbia*, Vesna Mrdalj – *B&H*, Iulia Muresan – *Romania*, Nebojša Novković – *Serbia*, Aleksandar Ostojić – *B&H*, Boris Pašalić – *B&H*, Vojo Radić – *B&H*, Ljiljana Radivojević – *Serbia*, Biljana Rogić – *B&H*, Gordana Rokvić-Knežić – *B&H*, Črtomir Rozman – *Slovenia*, Đorđe Savić – *B&H*, Nebojša Savić – *B&H*, Francesco Tiezzi – *Italy*, Mladen Todorović – *Italy*, Vida Todorović – *B&H*, Vojislav Trkulja – *B&H*, Jan Turan – *Serbia*, Željko Vaško – *B&H*, Božo Važić – *B&H*, Dragana Šunjka – *Serbia*, Nery Zapata – *Spain*, Vlade Zarić – *Serbia*, Ervin Zečević – *B&H*, Svjetlana Zeljković – *B&H*, Edvih Zhllima – *Albania*, Mirjana Žabić – *B&H*.

P2_12

***Ceroplastes rusci* (L.) (Hemiptera: Coccidae), a new soft scale species in Serbia**

Marina Dervišević¹, Draga Graora²

¹ *Institute for Vegetable Crops Smederevska Palanka, Republic of Serbia*

² *University in Belgrade - Faculty of Agriculture, Republic of Serbia*

*Corresponding author: Marina Dervišević,
dervisevic.marina1989@gmail.com*

Abstract

At the end of March 2016, the species *Ceroplastes rusci* was found for the first time in Serbia on a fig (*Ficus carica* L.) in the locality of Belgrade (Ledine). This species is polyphagous and causes significant damage to figs by feeding on plant juices from all above-ground parts. After the first finding, it was studied in more detail. The presence, intensity of attacks and development cycle of *C. rusci* was studied during 2016 and 2017 in the area of Belgrade. The intensity of attack was evaluated according to the scale of Borchsenius (1963). Sampling of plant material with scale insects was carried out throughout the year, and the life cycle was followed by the method of cultivation in the laboratory. The identification of the species was carried out using the morphological characteristics of the female and using the keys for the determination by Gill (1988). In the area of Belgrade, the species was found on *Ficus carica* L. (fam. Moraceae) in a private yard at the Ledine location. All above-ground parts of the plant were covered with numerous colonies of scales, so the intensity of the attack was rated as 4. This degree of infestation caused the physiological weakening of the plants and the drying of individual branches. *C. rusci* reproduces by gamogenesis, develops one generation per year, and overwinter as fertilized female on fig branches. In the spring, at the end of May, oviposition begins. One female lays an average of about 1200 eggs. First-stage larvae hatch in the second half of June. They actively move towards the leaves of the host plant, where they feed during the summer months. The second-stage larvae are formed in mid-August, after which females are formed during September that overwinter.

Key words: Ceroplastes rusci, fig, damage, life cycle

Acknowledgment: This work was supported by the Ministry of Science, Technological Development and Innovation Republic of Serbia under Contracts No. 451-03-47/2023- 01/200216.