



МЕЂУНАРОДНА ИСТРАЖИВАЧКА
АКАДЕМИЈА НАУКА И УМЕТНОСТИ - МИАНУ
INTERNATIONAL RESEARCH ACADEMY OF
SCIENCE AND ART - IRASA

IRASA
International Scientific Conference
SCIENCE, EDUCATION,
TECHNOLOGY AND INNOVATION
SETI IV 2022



Book of Abstracts

Belgrade,

September 30 - October 1, 2022



IRASA International Scientific Conference
SCIENCE, EDUCATION, TECHNOLOGY AND INNOVATION

SETI IV 2022

Book of Abstracts



Publisher

IRASA – International Research Academy of Science and Art

For the Publisher

Academician Prof. Vladica Ristić, PhD

Editors

Academician Prof. Vladica Ristić, PhD

Academician Prof. Marija Maksin, PhD

Academician Prof. Jelena Bošković, PhD

Reviewers

Academician Prof. Vladica Ristić, PhD;

Academician Prof. Dušan Minić, PhD

Academician Prof. Jelena Bošković, PhD

Academician Prof. Marija Maksin, PhD

Academician Prof. Juan Sánchez Monroe, PhD

Academician Slavka Zeković, PhD

Academician Ana Perić Momčilović, PhD

Academician Prof. Mirko Smoljić, PhD

Academician Prof. Slobodanka Đolić, PhD

Academician Prof. Slavko Vukša, PhD

Academician Prof. Hadžib Salkić, PhD

Academician Prof. Enes Huseinagić, PhD

Academician Prof. Vjekoslav Budimirović, PhD

Academician Prof. Dobrica Vesić, PhD

Academician Prof. Radivoj Prodanović, PhD

Print run

150

Printed by

Instant system, Belgrade

2022

ISBN 978-86-81512-06-7

Publication of the Book of Abstracts has been co-financed by the Ministry of Education, Science and Technological Development of the Republic of Serbia.



MICROBIOLOGICAL FERTILIZERS IN THE FUNCTION OF ORGANIC PRODUCTION AND HEALTH SAFE FOOD

*Aleksandar Stevanović³⁸; Ljubica Šarčević-Todosijević³⁹; Jelena Bošković⁴⁰;
Jelena Mladenović⁴¹; Vladan Pešić⁴²; Vera Popović⁴³; Vladica Ristić⁴⁴*

Abstract

Environmental pollution is one of the main problems facing humanity on a global scale, as well as the leading cause of the growing incidence of certain human and animal diseases. Organic production as a sustainable system combines tradition and new technological solutions in the prevention of environmental pollution, both from the aspect of biological diversity of flora and fauna in the agroecosystem, and from the aspect of nutritional values and absence of pesticide residues in plant and animal products. Organic production enables the protection of biodiversity and the environment. An important feature of organic agriculture is the exclusion of the use of mineral fertilizers and pesticides, due to the potential negative effects that can be caused by their uncontrolled use. In organic production, mostly organic fertilizers and biological preparations are used, which enable the decomposition of harvest residues and the release of plant assimilates. In recent times, the possibilities of using allelopathic substances and secondary metabolites of plants as growth regulators and natural herbicides in sustainable agriculture are expanding, while the most important alternative to mineral fertilizers are microbiological fertilizers. In this paper, the importance and scope of application of microbiological fertilizers in modern agricultural production are considered.

Key words: *Organic agriculture, biodiversity, microbiological fertilizers, safe food.*

³⁸Aleksandar Stevanović, High Medical-Sanitary School of Professional Studies "Visan", Tošin bunar 7a, Belgrade, Republic of Serbia, phdstevanovic@gmail.com; organic.polj.72@gmail.com

³⁹Ljubica Šarčević-Todosijević, High Medical-Sanitary School of Professional Studies "Visan", Tošin bunar 7a, Belgrade, Republic of Serbia, ljsarcevic@gmail.com

⁴⁰Jelena Bošković, Full professor, PhD, Academician of IRASA, Metropolitan University, Tadeuša Kaćuškog 63, 11000 Belgrade, Republic of Serbia, jelena.boskovic@metroplitan.ac.rs

⁴¹Jelena Mladenović, Bsci in ecology, University Business Academy in Novi Sad, Faculty of Economics and Engineering Management, Cvečarska 2, 21000 Novi Sad, Republic of Serbia, jelenamladenovic3110@gmail.com

⁴²Vladan Pešić, Associate Professor, PhD, University of Belgrade, Faculty of Agriculture, Nemanjina 6, Zemun, Republic of Serbia, vladanpesic@agrif.bg.ac.rs

⁴³Vera Popović, Institute of Field and Vegetable Crops, Maksima Gorkog 30, 21000 Novi Sad, Republic of Serbia, vera.popovic@ifvcns.ns.ac.rs

⁴⁴Vladica Ristic, Full Professor, PhD, Academician of IRASA, Metropolitan University of Belgrade, Faculty of Applied Ecology "FUTURA", Belgrade, Republic of Serbia, vladicar011@gmail.com

CIP - Каталогизација у публикацији
Народна библиотека Србије, Београд

0/9(048)

IRASA. International Scientific Conference Science, Education, Technology and Innovation (4 ; 2022 ; Beograd)
Book of abstracts / IRASA International Research Academy of Science and Art International Scientific Conference Science, Education, Technology and Innovation - SETI IV, Belgrade, September 30 – October 1, 2022 ; [editors Vladica Ristić, Marija Maksin, Jelena Bošković]. - Belgrade : IRASA - International Research Academy of Science and Art, 2022 (Belgrade : Instant System). - [76] str. ; 25 cm

На врху насловне стр.: Међународна истраживачка академија наука и уметности - МИАНУ. - Тираж 150.

ISBN 978-86-81512-06-7

а) Наука -- Апстракти б) Технологија -- Апстракти в) образовање -- Апстракти г) Животна средина -- Апстракти д) Одрживи развој -- Апстракти ђ) Национална безбедност -- Апстракти

COBISS.SR-ID 75244553