



AgroSym
2022



**BOOK OF
ABSTRACTS**

*XIII International Scientific Agriculture Symposium
"AGROSYM 2022"
October 6-9, 2022*



AGRO 2022
sym

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**XIII International Scientific Agriculture Symposium
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Jahorina, October 06 - 09, 2022

Impressum

XIII International Scientific Agriculture Symposium „AGROSYM 2022“

Book of Abstracts Published by

University of East Sarajevo, Faculty of Agriculture, Republic of Srpska, Bosnia
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Mediterranean Agronomic Institute of Bari (CIHEAM - IAMB) Italy
International Society of Environment and Rural Development, Japan
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Website:

<http://agrosym.ues.rs.ba>

CIP - Каталогизacija у публикацији
Народна и универзитетска библиотека
Републике Српске, Бања Лука

631(048.3)(0.034.4)

INTERNATIONAL Scientific Agricultural Symposium "Agrosym 2022" (13 ; Jahorina)
Book of Abstracts [Електронски извор] / XIII International Scientific Agriculture
Symposium "Agrosym 2022", Jahorina, October 06 - 09, 2022 ; [editor in chief Dušan
Kovačević]. - East Sarajevo =Istočno Sarajevo : Faculty of Agriculture =Poljoprivredni
fakultet, 2022. - 1 електронски оптички диск (CD-ROM) : текст, слика ; 12 cm

Системски захтеви: Нису наведени. - Насл. са насл. екрана. - Регистар.

ISBN 978-99976-987-2-8

COBISS.RS-ID 136884481

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Jahorina, October 06-09, 2022, Bosnia and Herzegovina**

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PREFACE

Dear colleagues,

I am pleased to introduce the Book of Abstracts of the 13th International Scientific Agricultural Symposium “AGROSYM 2022”, which I hope you will find useful in your work. Almost 700 contributions have been accepted for the Book of Abstracts. The themes of AGROSYM 2022 cover all branches of agriculture and are divided into seven sessions: 1) Plant production, 2) Plant protection and food safety, 3) Organic agriculture, 4) Environmental protection and natural resources management, 5) Animal husbandry, 6) Rural development and agro-economy, and 7) Forestry and agroforestry.

The multi-functionality of agriculture (viz. crop production, animal production and fisheries) and the central, vital role it plays in food production, food security, rural development, bio-economy (e.g. production of fibres and raw materials for industries) and green economy (e.g. production of biofuels) determine its importance in all countries; especially nowadays, with the COVID-19 pandemic.

Many scholars and practitioners argue that technology can increase production and feed more people while increasing supply stability and reducing the environmental impacts of agricultural production. Technology has been particularly important for improving production in annual crops such as maize, rice, soybean, wheat and cotton. Because trees have longer cycles, their breeding programs take longer. New plant breeding techniques can improve productivity, but there is a lively academic debate about their pros and cons.

While attention has been paid in the past mainly to the production side (cf. productivity, efficiency), more attention is nowadays paid to the consumption side as well as the intermediate stages (e.g. processing, distribution) of the food chain thus moving towards a ‘farm to fork’ approach. Globally, consumers are sending clearer signals about what they want on their tables i.e. higher quality as well as healthier, safer, and tastier products. Therefore, most agri-food companies have been exploring new, innovative ways to ensure more control over the production processes as well as final products quality and safety. Changes in investment strategy also have the potential to reduce the environmental and social costs of agriculture. It is now clear to most investors that companies paying more attention to sustainability and social responsibility, will have better returns on investments.

Agri-food systems have been central in the global debate on sustainable development and the achievement of the Sustainable Development Goals (SDGs) by 2030. Indeed, agri-food systems are at the center of various global challenges such as climate change, poverty, vulnerability, food insecurity, biodiversity loss, resource scarcity and ecosystem degradation. In this context, one of the goals of the sustainable agriculture movement is to develop farming systems that mitigate or eliminate environmental harms associated with industrial agriculture. It is also crucial to improve the resilience of food systems to crises, shocks and pandemics.

Many thanks to all the authors, reviewers and colleagues for their assistance in editing the Book of Abstracts. Special thanks go to all co-organizers and partners for their unselfish collaboration and comprehensive support.

East Sarajevo, 07 October 2022

Prof. Dušan Kovačević, PhD

Editor in Chief, President of the Scientific Committee of AGROSYM 2022



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NOVEL TOXIGENIC SPECIES ON MAIZE KERNELS IN SOUTHEASTERN EUROPE

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Abstract

In recent years, global climate changes have caused the variability of agro-climatic conditions, which could contribute to the synthesis of higher concentrations of mycotoxins in cereal grains during the growing season and could result in economic losses in the production, as well as in increased risk to human and animal health. These reasons and the fact that new toxigenic species have been identified in Serbia and its neighbouring countries in a few past years, indicate the need for permanent monitoring of mycopopulations on cereals. In Serbia, 30 different species of the genus *Aspergillus* have been identified, isolated mainly from cereal grains. The uncommonly high frequency and incidence of *Aspergillus* infestation of maize grain in the last few years were caused by extremely stressful agrometeorological conditions, high temperatures and drought over the period from flowering to waxy maturation of maize. Molecular detection of *Aspergillus* species collected from different samples of cereal kernels was done by using PCR-RFLP analysis of *aflR-aflJ* intergenic spacer (IGS). Restriction digestion of PCR products with *BglII* enzyme gave profiles specific for *A. parasiticus* - two fragments of 363 and 311 bp, which confirmed the presence of this species in the samples subjected to analysis. Characterization of Fg complex species was done by DNA sequence-based analysis using primer pairs ef1/ef2. Specific genome fragments were sequenced and analyzed. Sequences were compared to the data from GeneBank. Most of the tested isolates appeared to represent *F. graminearum sensu stricto* species, while only two of them were identified as *Fusarium boothii* and *Fusarium vorosii*.

Key words: *maize, Aspergillus, Fusarium.*

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