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2022



**BOOK OF
ABSTRACTS**

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



AGRO 2022
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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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CONTAMINATION OF MAIZE KERNELS WITH MYCOTOXINS AFTER HARVEST

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Abstract

The species of the genus *Fusarium* and *Aspergillus* are the most common pathogens of maize kernels worldwide. The most common species among them are *F. verticillioides*, *F. graminearum* and *A. flavus*. These fungi produce a wide spectrum of mycotoxins, among which the most common are fusariotoxins: trichothecenes-deoxynivalenol (DON), fumonisins (FBs) and aflatoxins: aflatoxin B1 (AFB1). The aim of this study was to examine the mycopopulation on maize kernels after harvest, as well as the concentration of their mycotoxins in kernels. Standard mycological examinations of maize kernels revealed the presence of toxigenic species of fungi from three genus, *Fusarium*, *Aspergillus* and *Penicillium*. In the examined samples, the species *F. verticillioides* was most often isolated in majority of hybrids, with a maximum incidence of 32%, while the presence of *Aspergillus* spp. was from 0 to 17%. Mycotoxicological analysis of maize kernels was performed by the ELISA method using a commercial kit (Tecna S.r.l., Italy). All analysed samples were positive for the presence of at least one mycotoxin. The differences between the examined hybrids in the concentration of mycotoxins in the grain were statistically significant ($P < 0.001$) for DON and FBs, but not for the content of AFB1. Likewise, the interaction between hybrids and localities was statistically significant ($P < 0.001$) for DON and FBS content, while it was not statistically significant for AFB1 concentration. The average DON concentrations were $127,55 \mu\text{g kg}^{-1}$, FBs $3050,21 \mu\text{g kg}^{-1}$, and AFB1 $2,98 \mu\text{g kg}^{-1}$.

Key words: *maize, deoxynivalenol, fumonisin, aflatoxin B1.*

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