AGROSYM

BOOK OF ABSTRACTS



XVI International Scientific Agriculture Symposium

"Agrosym 2025"

Jahorina, October 2-5, 2025



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Impressum

XVI International Scientific Agriculture Symposium „AGROSYM 2025“

Book of Abstracts Published by

Faculty of Agriculture, University of East Sarajevo, Republic of Srpska, Bosnia and Herzegovina
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Website:
http://agrosym.ues.rs.ba

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

631(048.3)(0.034.4)

INTERNATIONAL Scientific Agricultural Symposium "Agrosym 2025" (16 ; Jahorina)
Book of Abstracts [Електронски извор] / XVI International Scientific Agriculture Symposium "Agrosym 2025", Jahorina, October 2 - 5, 2025 ; [editor in chief Hamid El Bilali]. - East Sarajevo =Istočno Sarajevo : Faculty of Agriculture =Poljoprivredni fakultet, 2025. - 1 USB флеш меморија ; 1 x 2 x 7 cm

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

ISBN 978-99976-070-4-1

COBISS.RS-ID 143227905

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PREFACE

The world is facing several crises that require policymaking grounded in scientific data and evidence to effectively address the current challenges. Disruptions in the climate, the loss of biodiversity, the degradation of natural resources (e.g. land and water), ongoing conflicts, enduring inequalities, and economic shocks are progressively weakening the ability of agri-food systems to guarantee food security and nutrition for everyone.

Research can provide evidence and technical expertise, and it can also act as a facilitator and policy broker in agri-food strategies, investment planning, innovation policies, and other relevant policy processes. Research also plays an essential role in developing the knowledge, evidence, and resources necessary for scaling responsible and inclusive innovation, while also offering support to diverse stakeholders, including farmers' organizations, businesses and civil society organisations.

Integrating research with long-term policy strategies can enhance the visibility and adoption of innovations in the agri-food sector, particularly when facilitated through inclusive platforms. However, to achieve sustainable impact at scale, cooperation in agri-food research and innovation should be boosted. Scientific gatherings and events can play a central role in this regard.

The International Agriculture Symposium AGROSYM has been an annual forum and platform for international scientific discussions on agriculture, food, rural development, environment, and forestry for sixteen years. It offers a valuable opportunity to exchange ideas, strengthen existing networks, create new academic connections, and promote dialogue among academia, public institutions, the private sector, and civil society organizations on recent global and regional trends in the agri-food sector. The multidisciplinary results presented at AGROSYM help spread knowledge and best practices to all actors in the agri-food chain (e.g. farmers, extension agents, researchers, policymakers) as well as the general public, emphasizing the importance of agriculture and food science as key areas in many national research strategies.

The present Book of Abstracts of the 16th International Scientific Agricultural Symposium "AGROSYM 2025" features around 600 contributions, reflecting a diverse array of research and insights across the full spectrum of agricultural disciplines. They cover the following themes: 1) Plant production, 2) Plant protection and food safety, 3) Organic agriculture and agroecology, 4) Environmental protection and natural resources management, 5) Animal husbandry, 6) Rural development and agro-economy, and 7) Forestry and agroforestry.

We would like to express our sincere gratitude to all the authors, reviewers, and colleagues who contributed to the preparation of this Book of Abstracts. We extend our special thanks to co-organizers, partners and sponsors for their constant support and collaboration.

We hope this multidisciplinary and international compilation of research results serves as a valuable resource for all participants and fosters ongoing dialogue and exchange to foster the transition towards sustainable, resilient and inclusive agri-food systems.

East Sarajevo, 1st October 2025

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AN INTEGRATED ASSESSMENT OF WATER QUALITY IN THE RIVA (ÇAYAĞZI) STREAM USING MULTIVARIATE STATISTICAL AND SPATIAL APPROACHES

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Abstract

This study evaluates the spatial variability of water quality and identifies pollutant sources in the Riva (Çayağzı) Stream watershed, located in Istanbul, Türkiye. Monthly water samples were collected from five strategically selected locations throughout 2024. In situ measurements included physicochemical parameters (pH, electrical conductivity, dissolved oxygen, water temperature, and stream flow velocity). At the same time, laboratory analyses included major cations, nutrients, and heavy metals (Pb, Cd, Cr, Cu, Ni, Zn). A multivariate statistical approach, comprising Principal Component Analysis (PCA), Hierarchical Cluster Analysis (HCA), and Pearson correlation, was employed to identify pollutant patterns and site similarities. These analyses were further integrated with land use classification derived from Landsat-8 imagery, using the Random Forest algorithm. PCA results revealed distinct pollution signatures: Öğümce was characterized by pronounced heavy metal contamination (Pb, Cd, Cr, Cu, Ni, Zn); Ömerli exhibited moderate metal levels; Riva was dominated by high ionic content (EC, Na, Mg) and suspended solids; Pasamandıra displayed intermediate pollution; and Ömerli Dam Outlet represented the least-impacted, reference site with high dissolved oxygen and minimal contaminants. HCA supported these spatial groupings, clustering sites by their dominant pollution profile. Land use assessments indicated significant urban and industrial pressure in the downstream Riva area, agricultural influence in Öğümce and Ömerli, and forest dominance in the dam's upstream watershed. Strong correlations among pollutants suggested that urban runoff and agricultural activities were the primary drivers of contamination. These findings highlight the value of integrating statistical and remote sensing-based spatial analyses for source apportionment.

Keywords: *Water quality, Pollution source, Multivariate statistical analysis, Remote sensing.*

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