

**Goce Delcev University – Stip
Faculty of Agriculture**



**5th INTERNATIONAL MEETING
AGRISCIENCE & PRACTICE
(ASP 2026)**

BOOK OF ABSTRACTS

**16 APRIL 2026
Stip, Republic of North Macedonia**

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(ASP 2026)

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**5th INTERNATIONAL MEETING AGRISCIENCE & PRACTICE
ASP 2026**

**Organized by
FACULTY OF AGRICULTURE
GOCE DELCEV UNIVERSITY, STIP, REPUBLIC OF NORTH MACEDONIA
16 April 2026, Stip, Republic of North Macedonia**

The Faculty of Agriculture is organizing the 5th International Meeting *Agriscience & Practice (ASP 2026)*, providing participants with the opportunity to present and discuss original scientific and practical results in various fields of agriculture.

The 5th International Meeting *Agriscience & Practice (ASP 2026)* brings together agricultural stakeholders to share their knowledge, experience, and challenges. Its main goal is to connect research and fieldwork in the agricultural sector, both nationally and beyond, giving it an international dimension.

Over the past years, we have been fully committed to building exactly these kinds of bridges—bridges between science and practice, between institutions and producers, and between experience and innovation. Moreover, we strive to build bridges that transcend borders and connect us with the region and the world.

Scientific and applied presentations will be organized into the following sections:

1. Agricultural Economics
2. Animal Sciences
3. Plant Sciences
4. Food Science and Nutrition
5. Soil Science and Environment
6. Enology

Poster presentations will also be available. In addition, in response to the needs of the agricultural sector, panel discussions will be organized, where invited speakers and panelists will have the opportunity to share their experience with meeting participants.

Dear colleagues, partners, and friends, let us once again gather in one place, united by a common idea—to bring together agricultural science and practice in order to share information, knowledge, experiences, and solutions to overcome existing challenges. The main objective of this meeting is the successful establishment of continuous and meaningful communication and collaboration among scientific, research, and practical activities in the agricultural sector at the national, regional, and international levels. We will achieve this goal, as well as our shared objectives, through the synergy we have been actively building over the past years.

Every scientific field has its significance and value within a given social context, but agricultural production holds a particularly vital place.

Our shared task is not only to improve production, but also to strengthen the importance and dignity of agriculture in society. Above all, we must inspire young people to recognize their potential right here, because faculties and universities exist first and foremost for them—the younger generation. They are our future, but also our most important connection to society.

With great joyfulness we thank you for active participation in the Meeting

Prof. Emilija Arsov, PhD
Dean of Faculty of Agriculture
&
Chair of the Organizing Committee

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FOOD SCIENCE AND NUTRITION

ADVANCED APPROACHES FOR DETECTION OF MYCOTOXINS IN FOODS Marija Taskova Kukutanov^{1*}, Sasa Mitrev¹, Emilija Arsov¹, Biljana Kovacevik¹

¹*Faculty of Agriculture, Goce Delcev University, Stip, Krste Misirkov 10-A, 2000 Stip, Republic of North Macedonia*

*Contact author: marija.taskova@ugd.edu.mk

Abstract

Mycotoxins are contaminants in food and feed produced as secondary metabolites by various fungi. In the literature, more than 500 mycotoxins are identified and described as toxic but the most frequently occurring are aflatoxins, ochratoxins, fumotoxins, zearalenone and deoxynivalenol. Unknown consumption may cause mycotoxicosis resulting in hepatotoxicity, neurotoxicity, carcinogenicity etc. Consequently, it is crucial to develop detection methods for mycotoxins that are sensitive, reliable, available and cost effective. Conventional approaches for detection of mycotoxins in food include chromatography techniques such as high-performance liquid chromatography (HPLC) or liquid chromatography–tandem mass spectrometry (LC-MS/MS) and antibody-based immunoassays such as enzyme-linked immunosorbent assay (ELISA). These techniques have certain limitations connected to the high cost, time consumption, technical complexity and the need for skilled personnel. On the other hand, with the use of nanotechnology, biosensors are proposed and explored as advanced analytical tools for detection of mycotoxins. They have high potential into enhancing sensitivity and selectivity identifying trace amounts of mycotoxins in compound matrices. Biosensors consist of sensing element (receptor) attached on a nanomaterial with transducer to the readout system. They may employ optical, electrochemical and electrochemiluminescence (ECL) principles. In the literature, aptamer-based biosensors are highlighted as a new tool for food mycotoxin assessment. They are non-toxic, offer high efficiency because of the high surface density, have high stability compared with antibodies and hold possibility for customization. The future efforts in the field will be on improving biosensor robustness, size, integration with digital technologies and machine learning methods for predicting the presence of mycotoxins.

Key words: *mycotoxins, biosensors, nanotechnology, chromatography, aptamer-based biosensors.*

BOOK OF ABSTRACTS

MEETING SIDE EVENT: CARBONICA: Building a national stakeholder network for carbon farming and sustainable soil management

MEETING SIDE EVENT

CARBONICA: Building a national stakeholder network for carbon farming and sustainable soil management

ALL DAY EVENT

**PRESENTATION OF AGRICULTURAL COMPANIES WITH
EXHIBITION STANDS**

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