

**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
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&
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PLANT SCEINCES

EVALUATION OF OOMYCETE-TARGETED FUNGICIDES FOR CONTROLLING DOWNY MILDEW IN VEGETABLE CROPS Biljana Kovacevik^{1*}, Sasa Mitrev¹, Emilija Arsov¹, Dusan Spasov¹, Biljana Atanasova¹, Marija Taskova Kukutanov¹, Natalija Markova Ruzdik¹

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Abstract

Currently, 56 distinct fungicide modes of action are recognized and classified by the Fungicide Resistance Action Committee (FRAC), including compounds with unknown mechanisms. This diversity supports effective resistance management. However, the availability of fungicides is often limited by regional registration and economic factors, restricting their use in certain crops. Consequently, key crop–pathogen systems may have few control options. Furthermore, many fungicides exhibit a narrow spectrum of activity, with a large proportion targeting specific pathogen groups such as oomycetes or even single species. Oomycetes are phylogenetically distinct from true fungi such as phytopathogenic Deuteromycetes, Ascomycetes, and Basidiomycetes, exhibiting significant biological and biochemical differences that influence their sensitivity to fungicidal compounds. These pathogens are responsible for severe diseases in economically important crops, causing substantial yield and quality losses. In this study, the efficacy of oomycete-targeted fungicides against downy mildew are evaluated, with emphasis on compounds from diverse modes of action (MoA) such as antitubulin agents affecting microtubule assembly, compounds interfering with cytoskeleton-associated proteins, carboxylic acid amides (CAAs) targeting cell wall biosynthesis, and novel inhibitors of oxysterol-binding proteins. Field and controlled environment assessments demonstrated that fungicides with specific activity against oomycetes provide effective disease suppression, especially when applied preventively or during early stages of infection. Variability in efficacy among MoA groups highlights the importance of strategic selection and rotation of fungicides to delay resistance development. The integration of these target fungicides within an integrated disease management framework is essential for sustainable control of downy mildew in crop production systems.

Key words: *oomycetes, downy mildew, fungicides, mode of action, carboxylic acid amides, oxysterol-binding protein inhibitors, disease management, resistance management.*

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
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