

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



**3rd INTERNATIONAL MEETING
AGRISCIENCE & PRACTICE
(ASP 2023)**

BOOK OF ABSTRACTS

19-20th April 2023

Stip, Republic of North Macedonia

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**3rd INTERNATIONAL MEETING AGRISCIENCE & PRACTICE
ASP 2023**

Organized by

**FACULTY OF AGRICULTURE
GOCE DELCEV UNIVERSITY - STIP, REPUBLIC OF NORTH MACEDONIA
19-20 April 2023, Stip, Republic of North Macedonia**

Faculty of Agriculture organizes the 3rd International Meeting Agriscience & Practice (ASP 2023), giving an opportunity to the participants for presentation and discussion of original scientific and practical results in different fields of agriculture.

The 3rd International Meeting Agriscience & Practice (ASP 2023) is organized with an intention to bring together all agricultural stakeholders for sharing their knowledge, experience and obstacles. One of the main aims is to link research and field work in agricultural sector in the country and broader, giving it an international dimension.

The main goal of the Meeting was to connect and promote scientific achievements and practical knowledge presented in different thematic areas.

The scientific and applicative presentations are conducted in sections: 1. Agricultural economics, 2. Plant biotechnology, 3. Plant production, 4. Plant protection, 5. Quality control and food safety, 6. Soil science and hydrology 7. Viticulture, enology and fruit production, with a possibility for oral or poster presentation. Nevertheless, the needs of the agricultural sector entail organization of panel discussions, where invited speakers and panelists have a possibility to share their experience with the Meeting participants.

Dear colleagues, let's again gather together in one place with one joint idea - to combine agricultural science and practice with a purpose to share information, knowledge, experiences and solutions to exceed the problems. The main objective of this Meeting is successful establishment of continuous and valid communication and collaboration among scientific, research and practical activities in agriculture sector in our country, neighboring countries and broader international level. We will achieve the main goal of the Meeting as well as our common objective only by virtue of synergic connections on which we have been working intensively in the past years.

Every science has its significance and value in the given social context, but agricultural production has a special place of vital significance.

“Only one who knows the way of food movement, from field to table, really respects it”.

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

Prof. d-r Emilija Arsov

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&
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RAMULARIA LEAF SPOT - A POTENTIAL THREAT TO BARLEY PRODUCTION IN NORTH MACEDONIA Vesna Župunski^{1*}, Radivoje Jevtić¹

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Abstract

Ramularia collo-cygni (*Rcc*) is a causal agent of Ramularia leaf spot (RLS) that emerged as an economically important seed-borne disease in the last 30 years. RLS causes yield losses of up to 35 % and it is reported as a serious threat of barley production all over the world. Although the fungus co-exists with the host plant from early development stages the RLS symptoms occur late in the season as rectangular reddish-brown necrotic spots usually surrounded by a chlorotic halo. RLS symptoms are visible on both sides of the leaf blade and are very hard to be distinguished from other barley diseases or physiological leaf spots without using molecular techniques. Difficulties in distinguishing RLS from other abiotic and biotic factors of leaf spotting complex, asymptomatic phase of fungal development, and lack of regulations controlling RLS distribution through barley seed trade are major reasons that could jeopardize RLS management and barley production. During the visual inspection of barley production in 2016. in Kumanovo and Bitola the symptoms of RLS were observed on leaves, spikes and awns. Due to slow growing nature of the fungus and low frequencies of *Rcc* isolation, PCR-based identification was also applied and the presence of RLC on suspected leaves was confirmed. Since reports on the specificity of species-specific primers for *Rcc* identification in post-flowering growing stages are rare, this study confirmed not only the presence of RLS in North Macedonia but also the specificity of species-specific primers for identification of *Rcc* population originating from North Macedonia.

Key words: *Ramularia collo-cygni*, seed-borne disease, PCR.

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