

**FACULTY OF AGRICULTURE
GOCE DELCEV UNIVERSITY, STIP**



**4th INTERNATIONAL MEETING
AGRISCIENCE & PRACTICE
(ASP 2024)**

BOOK OF ABSTRACTS

**July 2024
Stip, Republic of North Macedonia**

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Editor
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Technical editors
Biljana Kovacevik, PhD
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**4th INTERNATIONAL MEETING AGRISCIENCE & PRACTICE
ASP 2024**

Organized by

**FACULTY OF AGRICULTURE
GOCE DELCEV UNIVERSITY, STIP, REPUBLIC OF NORTH MACEDONIA
13 June 2024, Stip, Republic of North Macedonia**

Faculty of Agriculture organizes the 4th International Meeting Agriscience & Practice (ASP 2024), giving an opportunity to the participants for presentation and discussion of original scientific and practical results in different fields of agriculture.

The 4th International Meeting Agriscience & Practice (ASP 2024) 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 abroad, 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 poster presentation. Nevertheless, the needs of the agricultural sector entail organization of plenary presentation on the most actual topic in the field of agriculture and panel discussions, where invited speakers and panellists 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 on 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.

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

Emilija Arsov, PhD

**Dean of the Faculty of Agriculture
&
Chair of the Organizing Committee**

July, 2024, Stip, Republic of North Macedonia

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PLENARY PRESENTATIONS

PRODUCTION CHARACTERISTICS OF SOME *CAMELINA SATIVA (L) CRUNTZ* VARIETIES IN THE PRILEP REGION Daniela Pelivanoska – Dameska^{1*}, Ljupco Mihajlov¹

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

**Corresponding author: pelivanoskad@yahoo.com*

Abstract

Wild flax *Camelina sativa (L.) Cruntz* is a cultural plant that belongs to the Brassicaceae family. Of the many economic and agrotechnical positive characteristics of this crop, the most significant for the Prilep region is that it can be grown on poor soils and in dry conditions. This crop is with short vegetation and gives good results without watering and without fertilizing. Wild flax has a high economic value because it can be used as a raw material for several purposes, namely: production of biodiesel, active substances for pesticides, feed for domestic animals, feed for fish, in the cosmetic industry, in the industry for the production of edible oil, thus obtaining an oil that is particularly recommended for consumption by people with heart diseases. In our country, this culture is still unknown, it is not cultivated and there are no literary data about it. Keeping this in mind, we set ourselves the goal of conducting investigations of some important morphological properties of several varieties of *Camelina sativa* in the Prilep area. The experiment was placed on a colluvial-deluvial soil type, low content of humus and nitrogen, medium availability of phosphorus and potassium and a moderately acidic reaction. Four varieties were placed: "NS Zlatka" and "NS Slatka" (varieties from the Republic of Serbia - Institute of Field and Vegetable Crops - Novi Sad), and "Bg 005" and "Bg 006" (Bulgarian varieties) in a randomized block system in three repetitions. The most important production characteristics were examined, namely: vegetation length, plant height, number of branches per plant, number of pods per plant, average number of plants per m² and average seed yield per unit area. Based on the obtained results, it can be concluded that the Novi Sad variety "NS Zlatka" stands out with the best production properties and an average seed yield per unit area of 1348 kg/ha.

Key words: wild flax, varieties, morphological properties, yield.