

**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

**Dean of Faculty of Agriculture
&
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BOOK OF ABSTRACTS
SECTION: PRESENTATIONS OF COMPANIES

QUALITY OF RED WINES FROM VRANEC, MERLOT AND FRANKOVKA GRAPE VARIETIES FERMENTED BY TWO DIFFERENT YEAST STRAINS Fidanka Ilieva^{1*}, Antonio Petrov¹, Sanja Kostadinovic Velickovska¹, Violeta Dimovska¹, Daniela Todevska¹

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Abstract

The aim of this research is to determine the quality of red wines from grape varieties Vranec, Merlot and Frankovka using wine yeasts from the French manufacturer SELECTYS® LA DÉLICIEUSE and baker's yeast seeded in a ratio of 0.25 g/L. The research was done during 2020 and 2021 in the Vinica vineyard, where the three grape varieties are grown at an altitude of 400 to 520 m. The determination of the quality of the young wines was done in the State Phytosanitary Laboratory, where the presence of sugars, alcohol, total acids, volatile acids, the presence of free and total SO₂ were determined with FOSS WINESCAN, while the presence of micro and macro elements in the wines was determined with ICP/MS. As part of the study, a polyphenolic profile of the wines obtained was established using the method of Folin Ciocalteu. Statistical analysis of the data was performed using the Pearson correlation coefficient between the chemical characteristics of the wines and the yeasts used for the study. The choice of yeasts used for fermentation is important to obtain high quality wines to satisfy consumer tastes and market requirements.

Key words: *yeasts, wine, fermentation.*