#### **EDITOR IN CHIEF**

# **Editor in Chief**

**Liljana Koleva Gudeva**, Faculty of Agriculture, Goce Delcev University, Stip, Republic of North Macedonia, <a href="mailto:liljana.gudeva@ugd.edu.mk">liljana.gudeva@ugd.edu.mk</a>

## **Editors**

**Emilija Arsov**, Faculty of Agriculture, Goce Delcev University, Stip, Republic of North Macedonia, <a href="mailiga.arsov@ugd.edu.mk">emilija.arsov@ugd.edu.mk</a>

**Fidanka Trajkova**, Faculty of Agriculture, Goce Delcev University, Stip, Republic of North Macedonia, <a href="mailto:fidanka.trajkova@ugd.edu.mk">fidanka.trajkova@ugd.edu.mk</a>

## Administrator

**Biljana Atanasova**, Faculty of Agriculture, Goce Delcev University, Stip, Republic of North Macedonia, <a href="mailto:biljana.atanasova@ugd.edu.mk">biljana.atanasova@ugd.edu.mk</a>

# **Technical Editing**

**Slave Dimitrov**, Publishing Department, Goce Delcev University, Stip, Republic of North Macedonia, <a href="mailto:slave.dimitrov@ugd.edu.mk">slave.dimitrov@ugd.edu.mk</a>

# **Language Editors**

**Biljana Ivanova,** MA, Senior lecturer, Faculty of Philology, Goce Delcev University, Stip, Republic of North Macedonia Macedonia, <a href="mailto:biljana.petkovska@ugd.edu.mk">biljana.petkovska@ugd.edu.mk</a> – English language Editor

**Marija Sokolova,** Goce Delcev University, Stip, Republic of North Macedonia Macedonia, <u>marija.sokolova@ugd.edu.mk</u> – Macedonian language Editor

## **Editorial Office**

Faculty of Agriculture, Goce Delcev University, Stip, Krste Misirkov Str., No.10-A P.O. Box 201, 2000 Stip, Republic of North Macedonia japs@ugd.edu.mk http://js.ugd.edu.mk/index.php/YFA

# GOCE DELCEV UNIVERSITY - STIP, REPUBLIC OF NORTH MACEDONIA FACULTY OF AGRICULTURE

doi.org/10.46763/JAPS201 Indexed in EBSCO database UDC 63(058) ISSN 2545-4447 print ISSN 2545-4455 on line



Journal of Agriculture and Plant Sciences, JAPS, Vol 21, No. 1

## **EDITORIAL BOARD**

# Aco Kuzelov,

Faculty of Agriculture, Goce Delcev University, Stip,

Republic of North Macedonia, aco.kuzelov@ugd.edu.mk

# Biljana Balabanova,

Faculty of Agriculture, Goce Delcev University, Stip,

Republic of North Macedonia, biljana.balabanova@ugd.edu.mk

# Danijela Raičević,

Biotechical Faculty, University of Montenegro, Mihaila Lalica b.b., Podgorica,

Montenegro, nelar@mail.com

# Dragan Skorić,

Serbian Academy of Sciences and Arts, Knez Mihajlova 35, 11000 Belgrade,

Serbia, <u>draganskoric@sbb.rs</u>

# **Dragomir VIcev,**

Institute of Agriculture – Karnobat, Bulgaria, vulchevd@abv.bg

#### Hatice Gülen,

Istinye University, Faculty of Engineering and Natural Sciences, Department of Molecular Biology and Genetics, Istanbul, Turkey

Turkey, hatice.gulen@bilgi.edu.tr

#### Jovica Vasin,

Institute of Field and Vegetable Crops, Novi Sad, Serbia, jovica.vasin@ifvcns.ns.ac.rs

## Kiril Bahcevandziev,

Coimbra Agricultural School, 3045-601 Coimbra, Portugal, kiril@esac.pt

#### Klemen Lisjak,

Agricultural Institute of Slovenia, Hacquetova ulica 17, Ljubljana, Slovenia, Klemen.Lisjak@kis.si

# Ljupco Mihajlov,

Faculty of Agriculture, Goce Delcev University, Stip,

Republic of North Macedonia, <a href="mailto:ljupco.mihajlov@ugd.edu.mk">ljupco.mihajlov@ugd.edu.mk</a>

# Marijan Bubola,

Institute of Agriculture and Tourism, Karla Huguesa 8, 52440 Poreč, Croatia, marijan@iptpo.hr

# Maryna Mardar,

Odessa National Academy of Food Technologies, Odessa, 65039, Kanatnaya Str.,

Ukraine, marinamardar2003@gmail.com

## Sanja Radeka,

Institute of Agriculture and Tourism, Karla Huguesa 8, 52440 Poreč, Croatia, sanja@iptpo.hr

# Sasa Mitrev,

Faculty of Agriculture, Goce Delcev University, Stip, Republic of

North Macedonia, <a href="mailto:sasa.mitrev@ugd.edu.mk">sasa.mitrev@ugd.edu.mk</a>

#### Shuhe Wei,

Institute of Applied Ecology, Chinese Academy of Sciences, China, <a href="mailto:shuhewei@iae.ac.cn">shuhewei@iae.ac.cn</a>

# Violeta Dimovska,

Faculty of Agriculture, Goce Delcev University, Stip,

Republic of North Macedonia, violeta.dimovska@ugd.edu.mk

# Wolfram Schnäckel,

Anhalt University of Applied Sciences, Bernburger Straße 55, 06366 Köthen,

Germany, Wolfram.Schnaeckel@hs-anhalt.de

# CONTENT

Jane Aleksoski
HETEROTHIC EFFECT OF SOME QUANTITATIVE TRAITS IN F1 DIALLEL HYBRIDS
OF VARIOUS TOBACCO TYPES
or williams robridge the Estimate the second
Dimitar Angelkov, Violeta Dimovska, Efremco Nikolov, Fidanka Ilieva
REMOTE MANAGEMENT IN SYSTEMS FOR IRRIGATION OF
SOLAR ENERGY BUNARIES IN THE VITICULTURE
SOLAR ENERGY BUNARIES IN THE VITICULIONE
Natalija Atanasaya Dansayska Daaka Kungulayski Elana lista Datraya
Natalija Atanasova-Pancevska, Dzoko Kungulovski, Elena Usta Petrova,
Nikola Radmanovik, Ognen Boskovski, Edi Frcovski,
Hristijan Premcevski, Sofija Kostandinovska
THE INFLUENCE OF DIFFERENT CLIMATIC TYPES ON THE NUMBER OF <i>Bacillus</i> spp.
ISOLATED FROM SOIL IN NORTH MACEDONIA
Fidanka Ilieva, Antonio Petrov, Sanja Kostadinović Velickovska,
Violeta Dimovska, Daniela Todevska
THE QUALITY OF RED WINE FROM VRANEC, MERLOT AND FRANKOVKA
FERMENTED BY COMMERCIAL AND BAKER'S YEASTS
Mite Ilievski, Dragica Spasova, Natalija Markova Ruzdik,
Biljana Atanasova, Dusan Spasov
CORN PRODUCTION IN REPUBLIC OF NORTH MACEDONIA
AND POSSIBILITIES FOR ITS CULTIVATION WITHOUT INTERVENTIONAL IRRIGATION
Igor Iljovski, Ile Canev, Daniela Todevska, Zlatko Arsov
USING BBCH SCALE AND GROWING DEGREE DAYS TO IDENTIFY
THE GROWTH STAGES OF WINTER OILSEED RAPE GENOTYPES IN THE SKOPJE REGION
THE GROWTH STREET OF WHATER OLESCED TWILE GENERAL ESTAT THE STREET REGION
Dzoko Kungulovski, Natalija Atanasova-Pancevska, Elena Damcevska Josifovska
ISOLATION, SCREENING AND CHARACTERIZATION OF CELLULOLYTIC BACTERIA
FROM DIFFERENT SOIL SAMPLES FROM PELAGONIA REGION
FROM DIFFERENT SOIL SAMPLES FROM PELAGONIA REGION
Makavii aski Davaha
Makarijoski Borche
MICROBIOLOGICAL QUALITY OF MACEDONIAN WHITE BRINED CHEESE
1 Services BASIC - Store Block - 125 - BASIC - 150 - 151 -
Ljupco Mihajlov, Natalija Markova Ruzdik
OPPORTUNITIES – ALTERNATIVES FOR APPLICATION OF
AGROECOLOGICAL MEASURES AND USE OF POST-HARVEST RESIDUES
Valentina Pelivanoska, Biljana Jordanoska Shishkoska
SOIL FERTILITY AS A PREREQUISITE FOR SUSTAINABLE TOBACCO PRODUCTION
IN THE MUNCIPALITY OF DOLNENI
Aleksandar Piperevski, Violeta Ivanova-Petropulos,
Dejan Milanov, Atanas Runchev
INFLUENCE OF THE TYPE OF FERMENTER ON THE CHEMICAL COMPOSITION
OF VRANEC AND MERLOT WINES

## **INTORDUCTION**

In the past sixteen years the educational, research and practical activities of the Faculty of Agriculture – Stip, Goce Delcev University – Stip, contributed to the development of agriculture sector in the country and broader region.

The Faculty of Agriculture organized the 3<sup>rd</sup> 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 3<sup>rd</sup> International Meeting Agriscience & Practice (ASP 2023), heled on 19<sup>th</sup> and 20<sup>th</sup> of April 2023 at the Faculty of Agriculture - Stip, was organized with intention to bring together all agricultural stakeholders for sharing their knowledge, experience and obstacles. One of the main aims was to link research and field work in agricultural sector in the country and broader, giving it an international dimension. All oral presentations as well as poster presentations at ASP 2023 were organized in several scientific sessions:

- Agricultural economics,
- Plant biotechnology,
- Plant production,
- Plant protection,
- Quality control and food safety,
- Soil science and hydrology,
- Viticulture, enology and fruit production.

The main goal of the Meeting was linking and promoting scientific achievements and practical knowledge, presented in different thematic areas, which were achieved in the Republic of North Macedonia and wider in the region.

Journal of Agriculture and Plant Sciences Vol. 21, No. 1 mostly contains the presented papers from the 3<sup>rd</sup> International Meeting Agriscience & Practice (ASP 2023).

**Editorial Board,** 

Editor in chief,

June, 2023

Prof. Liljana Koleva Gudeva, PhD