

AGRO 2022 sym

**Faculty of Agriculture
University of East Sarajevo**



**Republic of Srpska
Bosnia and Herzegovina**

**CIHEAM - Mediterranean
Agronomic Institute of
Bari (CIHEAM - IAMB)**



Italy

**Faculty of Agriculture
University of Belgrade**



Serbia

in collaboration with



Jahorina, 06-09 October 2022, Bosnia and Herzegovina

SYMPOSIUM PROGRAMME

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Dr. Branka Kresovic, Director of the Maize Research Institute "Zemun Polje", Serbia
Prof. Dr. Jegor Miladinović, Director of the Institute of Field and Vegetable Crops, Serbia
Prof. dr Nedeljko Tica, Dean of the Faculty of Agriculture, University of Novi Sad, Serbia
Prof. dr Rodne Nastova, Director of the Institute for Animal Science, Skopje, Macedonia
Prof. dr Sasa Orlovic, Director of the Institute of Lowland Forestry and Environment, Serbia
Prof. dr Jonel Subic, Director of the Institute of Agricultural Economics, Serbia
Prof. dr Branko Kovacevic, President of the Academy of Engineering Sciences of Serbia, Serbia
Prof. dr Radovan Pejanovic, President of Balkan Scientific Association of Agricultural Economics, Serbia

SCIENTIFIC COMMITTEE

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Prof. dr John Brayden, Norwegian Agricultural Economics Research Institute (NILF), Norway
Prof. dr Steve Quarie, Visiting Professor, School of Biology, Newcastle University, United Kingdom
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Prof. dr Dani Shtienberg, full professor, Department of Plant pathology and Weed Research, ARO, the Volcani Center, Bet Dagan, Israel
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Dr Srdjan Stojnic, Institute of Lowland Forestry and Environment, Serbia
Dunja Demirović Bajrami, Research Associate, Geographical Institute "Jovan Cvijić," Serbian Academy of Sciences and Arts, Belgrade, Serbia

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MSc. Erasmo Velázquez Cigarroa, Department of Rural Sociology, Chapingo Autonomous University, Mexico

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Dr. Igor Djurdjic, Faculty of Agriculture, University of East Sarajevo, Bosnia and Herzegovina, **General Secretary**

Thursday, October 6th, 2022
Conference Hall Termag

08:00 - 18:00 - REGISTRATION

14:00 - 15:00 - SYMPOSIUM OPENING CEREMONY

Representative of the Ministry of Agriculture, Forestry and Water Management of Republic of Srpska
Representative of the Ministry of Scientific - Technological Development, Higher Education and Information Society of Republic of Srpska
Prof. dr Milan Kulic - Rector of the University of East Sarajevo
Prof. dr Dusan Kovacevic - President of the Scientific Committee
Prof. dr Vesna Milic - President of the Organizing Committee
Representative of the Mediterranean Agronomic Institute of Bari (IAMB), Italy
Mr. Ljubisa Cosic - Mayor of the City of East Sarajevo

15:00 - 16:00 - COCKTAIL

16:00 - 17:30 KEYNOTE PAPERS

Working committee

Chairpersons: Miodrag DIMITRIJEVIC, Michael BÖHME, Bořivoj ŠARAPATKA, Dragana SUNJKA, Hamid El BILALI

16:00 - 16:20 - AGRICULTURAL AND FOOD SYSTEMS BY 2050: CHALLENGES AND PROSPECTS

Hamid El BILALI

16:20 - 16:40 - GENOME EDITING IN GRASS PLANTS

Bing YANG

16:40 - 17:00 - AGRICULTURAL KNOWLEDGE AND INNOVATION SYSTEMS (AKIS) IN THE EUROPEAN UNION

Fanos BIRKE, Andrea KNIERIM

17:00 - 17:30 - DISCUSSION

18:00 - 19:00 - CONCERT OF TRADITIONAL MUSIC (Hotel Vucko)

20:00 - DINNER AT HOTEL AND ENTERTAINMENT EVENING



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Friday, October 7th, 2022
Conference Hall A (Hotel Termag)

PLANT PRODUCTION 1a

- 09:00 - 18:00** - **REGISTRATION**
09:00 - 18:30 - **WORKING SESSIONS**

Working committee

Chairperson: Michael H. BÖHME, Mirjana MOJEVIC

- 09:00 - 09:10** **QUALITY CHARACTERISTICS OF DIFFERENT INBRED LINES OF BEAN CULTIVARS UNDER WATER STRESS**, Fokion PAPATHANASIOU, Marialena AGGELAKI, Aggelos PAPADOPOULOS, Ioannis MYLONAS, Elisavet NINOI, Fotini PAPADOPOULOU
- 09:10 - 09:20** **EVALUATION OF DIFFERENT INBRED LINES OF BEAN CULTIVARS UNDER WATER STRESS**, Fokion PAPATHANASIOU, Ioannis MYLONAS, Elisavet NINOI, Fotini PAPADOPOULOU, Agathaggelos TALLIDIS, Nikos MICHAILIDIS, Aggelos PAPADOPOULOS
- 09:20 - 09:30** **RECENT ADVANCES IN DIRECT DRILLING TECHNOLOGY FOR SOYBEAN (GLYCINE MAX.L.) PRODUCTION**, Boglárka BOZÓKI, Gergő Péter KOVÁCS, Csaba GYURICZA
- 09:30 - 09:40** **EFFECT OF DIFFERENT NITROGEN SUPPLY ON THE YIELD AND NDVI VALUES OF EXTENSIVE AND INTENSIVE WINTER WHEAT GENOTYPES**, László ZSOMBIK, Vivien PÁL
- 09:40 - 09:50** **EFFECTS OF SOIL AMENDMENTS ON INCIDENCES OF BACTERIAL WILT AND TUBER YIELD OF POTATO AT DIFFERENT ENVIRONMENTS IN MALAWI**, Kareem LONGWE, Obed J. MWENYE, Gbenga AKINIWALE, Felistus CHIPUNGU, Daniel VAN VUGT, Margret CHIIPANTHENG, Austin T. PHIRI
- 09:50 - 10:00** **MAKING SALINE SOILS PRODUCTIVE: CAN CO-APPLICATION OF PLANT GROWTH PROMOTING BACTERIA & BIOCHAR BE A SOLUTION? RESULTS OF A WHEAT TRIAL GROWN ON A SALINE SOIL**, Laraib MALIK, Tanvir SHAHZAD
- 10:00 - 10:15** **DISCUSSION**
- 10:15 - 10:30** **PAUSE**

Working committee

Chairpersons: Michael H. BÖHME, Desimir KNEŽEVIC

- 10:30 - 10:40** **SMART AGROECOLOGICAL DSS FOR DURUM WHEAT AGRI-TECHNOLOGIES WITH OPERATIONAL ADJUSTMENT BY IoT MONITORING DATA**, Ivan VASENEV, Alexey YAROSLAVTSEV, Ishan BESALIEV, Denis GUBAREV, Petr MALCHIKOV
- 10:40 - 10:50** **VARIABILITY OF STEM HEIGHT IN WHEAT AND TRITICALE UNDER INFLUENCE OF APPLIED INSECTICIDES**, Dragan GRČAK, Mijlošav GRČAK, Dragana GRČAK, Snežana GOŠIĆ DONDO, Dejan DODIG, Vesna KANDIĆ, Desimir KNEŽEVIC
- 10:50 - 11:00** **PHENOTYPIC VARIABILITY AND SIMILARITY OF NUMBER OF PRODUCTIVE TILLERS IN WHEAT VARIETIES (TRITICUM AESTIVUM L.)**, Dušan UROŠEVIĆ, Desimir KNEŽEVIC, Mirela MATKOVIĆ STOJŠIN, Jelica ŽIVIC, Vesna ĐUROVIĆ, Adriana RADOSAVAC, Danica MICANOVIC
- 11:00 - 11:10** **VARIABILITY OF GLUTEN PROTEINS IN WHEAT (TRITICUM AESTIVUM L.)**, Desimir KNEŽEVIC, Aleksandra. Yu, NOVOSELSKAYA DRAGOVICH, Alexander M. KUDRYAVTSEV, Aleksandar PAUNOVIĆ, Mirela MATKOVIĆ STOJŠIN, Danijela KONDIĆ, Veselinka ZEČEVIC
- 11:10 - 11:20** **SEED SIZE AND ALLOMETRIC RELATIONSHIPS AMONG LOCAL MAIZE VARIETIES IN GALICIA (NW SPAIN)**, Óscar GARCÍA TUESTA, Ješsica GROBA, Laura PIÑA, Seyla GIL, Emilio ANDÚJAR, Carmela DARRIBA, Pablo GONZÁLEZ NOVOA, Yaiza SAN MIGUEL, Francisco MORA, Javier MONTALVO

11:20 - 11:30 THE PHYSIOLOGICAL AND BIOCHEMICAL ESTIMATION OF THE ADAPTIVE ABILITY OF SUGAR BEET (BETA VULGARIS L.) TO SHADING AND PLANT DENSITY, Oksana KLIACHENKO, Larysa PRYSIAZHNIUK

11:30 - 11:45 DISCUSSION

11:45 - 12:00 PAUSE

Working committee

Chairperson: Snjezana MLADENOVIC DRINIC, Desimir KNEZEVIC

12:00 - 12:10 THE FRUIT GENETIC RESOURCES PRESERVATION IN BOSNIA AND HERZEGOVINA, Gordana ĐURIĆ, Gvozden MIČIĆ, Nikola MIČIĆ

12:10 - 12:20 GENETIC PROFILE INVESTIGATION OF MEDITERRANEAN OLIVE CULTIVARS BY COMBINED ANALYSIS OF GENOTYPE-SPECIFIC MOLECULAR MARKERS, Maria Antonietta RANAUDA, Antonello PRIGIONIERO, Daniela ZUZOLO, Maria TARTAGLIA, Maria MAISTO, Alessandra FALZARANO, Alessia POSTIGLIONE, Pierpaolo SCARANO, Rosaria SCIARRILLO, Guido CIPRIANI, Carmine GUARINO

12:20 - 12:30 CHARACTERISTICS OF EARLY-RIPENING BLACKBERRY CULTIVARS (RUBUS FRUTICOSUS L.), Ivan GLIŠIĆ, Radmila ILIĆ, Tomo MILOŠEVIĆ, Gorica PAUNOVIĆ, Jovana JOVANCEVIĆ

12:30 - 12:40 DISCUSSION

13:00 - 14:00 Mountain cable car ride

14:00 - 15:30 Lunch break

Working committee

Chairpersons: Miodrag DIMITRIJEVIC, Sofija PETROVIC

15:30 - 15:40 EFFECTS OF BIOSTIMULATORS ON GROWTH OF TOMATO PLANTS CULTIVATED UNDER PROTECTED AND FIELD CONDITIONS, Slavica DUDAŠ, Markos BULIĆ, Martina PERSIĆ, Michael H. BÖHME

15:40 - 15:50 EFFECTS OF FOLIAR APPLICATION OF ZINC NANOPARTICLES IN LETTUCE (LACTUCA SATIVA L.) PLANTS, Rūta Sutulienė, Jurga Miliauskienė, Aušra Brazaitytė, Simona Tučkutė, Martynas Urbutis, Kamilė Stašytė

15:50 - 16:00 EFFECTS OF DIFFERENT SOIL AMENDMENTS ON CABBAGE GROWTH AND YIELD, IN THE SEMI-ARID CENTRAL NAMIBIA, Kuume B. P. ENGUWA, Lydia N. HORN, Simon K. AWALA

16:00 - 16:10 EFFECTS OF DROUGHT STRESS ON PURSLANE (PORTULACA OLERACEA), Cenk Ceyhun KILIÇ, Bihter ÇOLAK ESETLİLİ, Özlem AKAT SARAÇOĞLU, Tolga ESETLİLİ, Yusuf KURUCU

16:10 - 16:20 DETERMINATION OF AGRONOMIC CHARACTERISTICS AND CARVACROL RATES OF B CLONES OF IMPROVED ISTANBUL OREGANO (Origanum vulgare subsp. hirtum), Olcay ARABACI, Emine BAYRAM, Çiğdem SÖNMEZ, Gülsüm BOZTAŞ, Nazlıcan ATAMAN

16:20 - 16:30 EFFECT OF DEFICIT IRRIGATION ON ANTIOXIDANT, ANTIRADICAL AND FLAVONOID CONTENTS OF Origanum vulgare subsp. hirtum GENOTYPES, Uğur TAN, Olcay ARABACI

16:30 - 16:45 DISCUSSION

16:45 - 17:00 PAUSE

Working committee

Chairperson: Miodrag DIMITRIJEVIC, Sofija PETROVIC

17:00 - 17:10 **NUTRITIONAL VALUES ANALYSIS OF SANDY GRASSLANDS ALONG THE DANUBE FROM THE PANNONIAN REGION TO THE ROMANIAN PLAIN,** Attila FÜRÉSZ, Ferenc PAJOR, Szilárd SZENTES, Tímea KISS, Károly PENKSZA

17:10 - 17:20 **OIL RADISH (RAPHANUS SATIVUS VAR. OLEIFORMIS) AS A PROMISING GREEN MANURE CROP IN CROP ROTATION SYSTEMS,** Vivien PÁL, László ZSOMBIK

17:20 - 17:30 **DEVELOPMENT OF SSR MARKERS LINKED TO STRESS RESPONSIVE GENES ALONG TOMATO CHROMOSOMES (SOLANUM LYCOPERSICUM L.),** Mohammad BRAKE, Hussein MIGDADI, Lana AL-QADUMII, Monther SADDER

17:30 - 17:45 **DISCUSSION**

17:45 - 18:00 **PAUSE**

18:00 - 18:30 **POSTER SESSION**

20:00 **Gala dinner (live music and tasting of traditional and typical products)**

PLANT PRODUCTION 1b

- 09:00 - 18:00** - REGISTRATION
08:50 - 10:30 - WORKING SESSIONS

Working committee

Chairperson: Jarosław CZARNECKI, Aleksandra GOVEDARICA-LUCIC

- 08:50 - 09:00** **NEW HOLISTIC DATABASE CONCEPT FOR AGRO-BIODIVERSITY KNOWLEDGE, CONSERVATION AND PROTECTION**, Antonello PRIGIONIERO, Maria Antonietta RANAUDA, Daniela ZUZOLO, Alessia POSTIGLIONE, Maria TARTAGLIA, Maria MAISTO, Pierpaolo SCARANO, Rosaria SCIARRILLO, Carmine GUARINO
- 09:00 - 09:10** **AGRO-DIVERSITY: THE BEAUTIFUL AND THE USEFUL. THE CASE STUDY OF FALANGHINA (VITIS VINIFERA) OF SANNIO (SOUTHERN ITALY)**, Daniela ZUZOLO, Antonello PRIGIONIERO, Maria TARTAGLIA, Pierpaolo SCARANO, Alessia POSTIGLIONE, Maria MAISTO, Maria Antonietta RANAUDA, Alessandra FALZARANO, Rosaria SCIARRILLO, Carmine GUARINO
- 09:10 - 09:20** **THE QUALITY OF THE SPRAYING PROCESS DEPENDING ON THE CHARACTERISTICS OF THE SELECTED PLANTS**, Antoni SZEWCZYK, Beata CIENIAWSKA
- 09:20 - 09:30** **CHARACTERISTICS OF SELECTED PLANTS IN TERMS OF THE SPRAYING PROCESS**, Beata CIENIAWSKA, Antoni SZEWCZYK
- 09:30 - 09:40** **USING THE 3D SCANNING METHOD TO THE EVALUATION OF AGRICULTURAL TIRE DEFORMATION**, Weronika PTAK, Jarosław CZARNECKI, Marek BRENNENSTHUL, Agata MAŁECKA
- 09:40 - 09:50** **TIRE FOOTPRINT EVALUATION USING THE 3D SCANNING METHOD**, Jarosław CZARNECKI, Weronika PTAK, Marek BRENNENSTHUL, Agata MAŁECKA
- 09:50 - 10:00** **ACCURACY DETECTION OF INTEL® REALSENSE D455 DEPTH CAMERA FOR AGRICULTURAL APPLICATIONS**, Abdullah BEYAZ
- 10:00 - 10:15** **DISCUSSION**
- 10:15 - 10:30** **PAUSE**
- 13:00 - 14:00** **Mountain cable car ride**
- 14:00 - 15:30** **Lunch break**
- 18:00 - 18:30** **POSTER SESSION**
- 20:00** **Gala dinner (live music and tasting of traditional and typical products)**

PLANT PROTECTION AND FOOD SAFETY 1a

- 09:00 - 18:00** - REGISTRATION
09:00 - 18:30 - WORKING SESSIONS

Working committee

Chairperson: Sanja LAZIC, Dejana STANIC

- 09:00 - 09:10** **TRANSMISSION OF A NEW POLEROVIRUS INFECTING PEPPER BY THE WHITEFLY BEMISIA TABACI**, Murad GHANIM, Svetlana KONTSEDALOV, Galina LEBEDEV, Saptarshi GHOSH
- 09:10 - 09:20** **EFFECTS OF INTERCROPPING SWEETPOTATO WITH PIGEONPEA ON PRODUCTIVITY AND SWEETPOTATO WEEVIL IN MALAWI**, Kareem LONGWE, Gbenga AKINIWALE, Obed J. MWENYE, Felistus CHIPUNGU, Daniel VAN VUGT, Margret CHIIPANTHENG, Austin T. PHIRI
- 09:20 - 09:30** **BIOINOCULANTS IN SUSTAINABLE AGRICULTURE – THE INFLUENCE ON MAIZE CHARACTERISTICS AND PHYTOBIOME**, Ivica DIMKIĆ, Aleksandra JELUŠIĆ, Matjaž HLADNIK, Tamara JANAKIEV, Dunja BANDELJ, Slavoljub VUKICEVIC, Djordje FIRA
- 09:30 - 09:40** **16S rRNA VS BIOCHEMICAL TESTS: CHALLENGE TO IDENTIFY PINK PIGMENTED ERWINIA SPECIES**, Didem CANIK OREL
- 09:40 - 09:50** **DETERMINATION of THE RACES of FULVIA FULVA and MUTATIONS in AVR GENES in TURKEY**, Esra GÜL, Aziz KARAKAYA, Ali ERGÜL
- 09:50 - 10:00** **BIOLOGICAL PROTECTIVE SUBSTANCES IN A SPONTANEOUS HALOPHYTE FROM ALGERIAN SAHARA**, Randa MLIK, Salim MEDDOUR, Nour Elhouda MEKHADMI, Abdallah HENNI, Ibtissem BENYAHIA, Amar EDDOUD, Makhlof SEKOUR
- 10:00 - 10:15** **DISCUSSION**
- 10:15 - 10:30** **PAUSE**

Working committee

Chairpersons: Dragana SUNJKA, Dejana STANIC

- 10:30 - 10:40** **INSECTICIDE RESISTANCE MANAGEMENT FOR FALL ARMYWORM IN MAIZE FIELDS OF ISRAEL**, A. Rami HOROWITZ, Carolina GUZMÁN, Dganit SADEH, Lilach, Lily MONDACA, Rui SHI, Shlomo SARIG
- 10:40 - 10:50** **NEW PERSPECTIVES FOR THE CONTROL OF NEMATODES AFFECTING VITIS VINIFERA L.**, Alessandra FALZARANO, Pierpaolo SCARANO, Antonello PRIGIONIERO, Maria TARTAGLIA, Daniela ZUZOLO, Maria MAISTO, Maria Antonietta RANAUDA, Carmine GUARINO, Rosaria SCIARRILLO
- 10:50 - 11:00** **BROWN MARMORATED STINK BUG (HALYOMORPHA HALYS) AS A NEW PEST IN BLUEBERRIES ORCHARDS, MONITORING AND CONTROL MEASURES**, Aleksandra KONJEVIĆ, Slaviša ŠESTIĆ
- 11:00 - 11:10** **CYDALIMA PERSPECTALIS (LEPIDOPTERA, CRAMBIDAE) AS A POTENTIAL THREAT TO CULTIVATED PLANTS IN SERBIA**, Spežana TANASKOVIĆ, Sonja GVOZDENAC, Marko STANISAVLJEVIĆ, Miloš MARJANOVIĆ, Dejan PRVULOVIĆ
- 11:10 - 11:20** **THE TOMATO LEAFMINER, TUTA ABSOLUTA MEYRICK (LEPIDOPTERA: GELECHIIDAE) IN TURKEY: CURRENT STATUS**, Ekrem ÖGÜR
- 11:20 - 11:30** **IN-VITRO AND IN-VIVO ANTIFUNGAL ACTIVITY OF FERMENTED COCOA'S RESIDUAL HONEY AGAINST WITCHES' BROOM DISEASE**, Susan PINHEIRO DE ALMEIDA, Evelyn Mayumi Hanawa KONAGANO, Christelle Anne Nicole Paule HERMAN
- 11:30 - 11:45** **DISCUSSION**
- 11:45 - 12:00** **PAUSE**

Working committee

Chairpersons: Dragana SUNJKA

- 12:00 - 12:10 ALLELOPATHIC EFFECT OF ESSENTIAL OILS ON LETTUCE (LACTUCA SATIVA L.) AND REDROOT PIGWEED (AMARANTHUS RETROFLEXUS L.) GERMINATION,** Slavko GRGIĆ, Renata BALIČEVIĆ, Jasenka ČOSIĆ, Karolina VRANDEČIĆ, Marija RAVLIĆ
- 12:10 - 12:20 ANALYSIS OF COCOA BEANS FROM DIFFERENT REGIONS IN TOGO,** Theo CARLUCCI, Arthur CRESPEL, Zoe L'HOTE, Arthur WEIS, Daniel J E KALNIN
- 12:20 - 12:30 IRANIAN KISHK AS A SOURCE OF LACTIC ACID BACTERIA PRODUCING EXOPOLYSACCHARIDE,** Mohammad Reza EDALATIAN DOVOM, Paria RAHNAMA VOSOUGH, Mohammad B. HABIBI NAJAFI, Ali JAVADMANESH, Baltasar MAYO
- 12:30 - 12:40 DISCUSSION**
- 13:00 - 14:00 Mountain cable car ride**
- 14:00 - 15:30 Lunch break**

Working committee

Chairpersons: Daniel KALNIN

- 15:30 - 15:40 ANALYSIS OF HEAVY METAL CONTENT IN FOOD CROPS FROM A TYPICAL MINING CITY IN PERU,** Noelia BEDOYA-PERALES, Diogo MAUS, Elias ESCOBEDO PACHECO, Karina EDUARDO PALOMINO, Adelisa FLORES ARPASI, Yoselin CARI BAUTISTA
- 15:40 - 15:50 INVESTIGATION ON THE BIOLOGICAL ACTIVITIES OF SCOLYMUS HISPANICUS L.,** Asli Gül ACAR, Turgut TAŞKIN, Beyzanur AKDUMAN, Pervin RAYAMAN, Mizgin ERMANOĞLU, Beyza Nur YILMAZ, Bahar GÜRDAL, Zeki SEVEROĞLU
- 15:50 - 16:00 SIGNIFICANCE OF GOAT MILK IN NUTRITION,** Asli Gül ACAR, Zeki SEVEROĞLU
- 16:00 - 16:10 EFFECTS OF ANTI-BROWNING SUBSTANCES WITH HONEY ON QUALITY OF APPLE SLICES DURING STORAGE,** Ferhan K. SABIR, Tugba Nur ACAR, Sevil UNAL
- 16:10 - 16:20 DRY STRAWBERRY SNACK,** Günce KÖSE, Duygu BÜYÜKTAŞ, Figen KOREL
- 16:20 - 16:30 FORMS OF VEGETABLE ADDITIVES AND COOKING TIME EFFECTS ON SOME CHARACTERISTICS OF CHICKEN TANTUNI, A TRADITIONAL TURKISH FOOD,** Gulen YILDIZ TURP, Seyma Nur ÇİCEK, Cansu CELEBİOĞLU, Gamze SEL, Tugce AVCI
- 16:30 - 16:45 DISCUSSION**
- 16:45 - 17:00 PAUSE**

Working committee

Chairpersons: Daniel KALNIN

- 17:00 - 17:10 EFFECTS OF EGGSHELL CALCIUM POWDER, PECTIN OR ACORN (Quercus ilex) EXTRACT AS PHOSPHATE REPLACERS IN RESTRUCTURED TURKEY STEAKS,** Hülya Serpil KAVUSAN, Hilal CAN, Özlem YÜNCÜ, Burcu Öztürk KERIMOĞLU, Meltem SERDAROĞLU
- 17:10 - 17:20 TECHNOLOGICAL PROPERTIES OF MEATBALLS FORMULATED WITH DIFFERENT LEVELS OF DRIED TOMATO POWDER,** Kyialbek ABDRAIMOV, Meltem SERDAROĞLU
- 17:20 - 17:30 DISCUSSION**
- 17:30 - 18:00 PAUSE**
- 18:00 - 18:30 POSTER SESSION**
- 20:00 Gala dinner (live music and tasting of traditional and typical products)**

Friday, October 7th, 2022
Conference Hall B (Hotel Termag)

PLANT PROTECTION AND FOOD SAFETY 1b

- 09:00 - 18:00** - REGISTRATION
10:30 - 11:20 - WORKING SESSIONS

Working committee

Chairperson: Jarosław CZARNECKI, Aleksandra GOVEDARICA-LUCIC

- 10:30 - 10:40** **UTILIZATION OF GELLED EMULSION BASED ON CHIA FLOUR WITH PEANUT OIL IN BEEF PATTIES**, Özlem YÜNCÜ, Hülya Serpil KAVUSAN, Meltem SERDAROĞLU
- 10:40 - 10:50** **UV DOSE DETERMINATION ON FOOD SURFACES BY IMAGE PROCESSING TECHNIQUE**, Yadigar SEYFİ, Sevcin UNLUTURK, Mehmet S. UNLUTURK
- 10:50 - 11:00** **EFFECTS OF OXALIC ACID TREATMENTS ON POSTHARVEST QUALITY AND STORAGE LIFE OF APPLE CV. GRANNY SMİTH**, Sevil UNAL, Ferhan K. SABIR
- 11:00 - 11:10** **PREDICTION OF MICROBIAL INACTIVATION IN UV LIGHT TREATMENT OF WHITE TEA USING MACHINE LEARNING AND NEURAL NETWORKS**, Sibel UZUNER, Büşra Zeynep GÜLER, Selen BİLGİÇ, Nurullah BULUT, Bahar ATMACA
- 11:10 - 11:20** **EFFECTIVENESS OF PULSED ELECTRIC FIELD TREATMENT AND PLANT ESSENTIAL OILS ON QUALITY AND SHELF-LIFE EXTENSION OF LICORICE ROOT DRINK**, İrem DEMİR, Bahar ATMACA, Gulsun AKDEMİR EVRENDİLEK, Sibel UZUNER
- 11:20 - 11:30** **DISCUSSION**
- 13:00 - 14:00** **Mountain cable car ride**
- 14:00 - 15:30** **Lunch break**
- 18:00 - 18:30** **POSTER SESSION**
- 20:00** **Gala dinner (live music and tasting of traditional and typical products)**

Friday, October 7th, 2022
Conference Hall E (Hotel Vucko)

ORGANIC AGRICULTURE

09:00 - 18:00 - **REGISTRATION**

15:30 - 16:30 - **WORKING SESSIONS**

Working committee

Chairperson: Srdjan LJUBOJEVIC, Monika JAKUBUS

15:30 - 15:40 **GINKGO LEAVES AND YEW ARILS – USABLE PARTS OF OLD PLANT SPECIES**,
Ladislav VASILISIN, Goran VUCIC, Srdjan LJUBOJEVIC, Ana VELEMIR, Nataša LAKIC-KARALIC

15:40 - 15:50 **EFFECT OF RESIDUES AND FRESH EXTRACT OF MEDICINAL PLANTS ON SOIL NUTRIENTS AND ZEA MAYS L. YIELDS**, Anvar GHADERI, Behnam DOVLATI, Ebrahim SEPEHR, Mohsen BARIN, Amir RAHIMI

15:50 - 16:00 **USE OF BIOSTIMULANTS TO PROMOTE GROWTH OF YOUNG OLIVE TREES**, Mona MAZEH, Leen ALMADI, Andrea PAOLETTI, Nicola CINOSI, Elissa DAHER, Michele TUCCI, Enrico maria LODOLINI, Adolfo ROSATI, Franco FAMIANI

16:00 - 16:10 **CYANOBACTERIA-PLANT INTERACTION: ASSOCIATIVE NITROGEN FIXATION AND AUXIN PRODUCTION BY LEPTOLYNGBYA AND ENHANCED GROWTH OF VIGNA RADIATA**, Mehboob AHMED

16:10 - 16:20 **PRODUCTION OF FERTILIZERS FROM BIOWASTES FOR ORGANIC AGRICULTURE**, Monika JAKUBUS

16:20 - 16:30 **CHITOSAN AND OTHER ANTITRANSPIRANTS – THEIR INFLUENCE ON DIFFERENT ASPECTS OF ORGANIC AND USUAL PLANT PRODUCTION**, Bogdan NIKOLIC, H. WAISI, V. DRAGICEVIC, S. ĐUROVIC, V. ORO, V. JOVANOVIĆ, M. DUGALIC

16:30 - 16:45 **DISCUSSION**

16:45 - 17:00 **PAUSE**

17:00 - 17:30 **POSTER SESSION**

20:00 **Gala dinner (live music and tasting of traditional and typical products)**

ENVIRONMENT PROTECTION AND NATURAL RESOURCES MANAGEMENT

09:00 - 18:00 - REGISTRATION

09:00 - 18:30 - WORKING SESSIONS

Working committee

Chairperson: Bořivoj ŠARAPATKA, Tomasz CŁAPA

09:00 - 09:20 **APPLIED ECOLOGY - INTERACTION OF HUMAN SOCIETY WITH NATURE - NEEDED AND ABSENT FIELD OF RESEARCH**, Jan FROUZ, Jaroslava FROUZOVA - **INTRODUCTORY PAPER**

09:20 - 09:30 **CROP YIELD ON EROSION-PRONE SOILS FROM THE PERSPECTIVE OF REMOTE SENSING**, Bořivoj ŠARAPATKA, Marek BEDNÁŘ

09:30 - 09:40 **WETNESS OF KARST FIELDS AT EAST HERZEGOVINA REGION (BOSNIA AND HERZEGOVINA)**, Branislav DRAŠKOVIC

09:40 - 09:50 **EFFECTS ON PHOSPHORUS ADSORPTION BEHAVIOR IN SALINE AND NON-SALINE SOILS OF LAKE URMIA BASIN**, Roghayeh MOUSAVI, MirHassan RASOULI-SADAGHIANI, Ebrahim SEPEHR, Mohsen BARIN

09:50 - 10:00 **STUDY OF SOILS POLLUTED BY MTEs IN THE GOUNTI YENA VALLEY (NIAMEY) WITH A VIEW TO SETTING UP A PHYTOREMEDIATION TEST**, Fanna ABDOLU GADO, Yadjji GUERO, Abdourahamane TANKARI DAN BADJO

10:00 - 10:15 **DISCUSSION**

10:15 - 10:30 **PAUSE**

Working committee

Chairpersons: Jan FROUZ, Jaroslava FROUZOVA

10:30 - 10:40 **VULNERABILITY ASSESSMENT OF ROAD NETWORKS TO LANDSLIDE HAZARDS USING RANDOM FOREST ALGORITHM**, Saleh YOUSEFI, Abolfazl JAAFARI, Aleksandar VALJAREVIC

10:40 - 10:50 **AGROECOLOGICAL ASSESSMENT OF CHERNOZEMS PEDODIVERSITY TO REDUCE ECO RISKS OF AGRI-TECHNOLOGIES USING IoT BASED DSS**, Ivan VASENEV, Dmitriy MOREV, Ishan BESALIEV, Alexey YAROSLAVTSEV, Olga NEZHEVLYAK

10:50 - 11:00 **EVALUATION OF SOIL PROPERTIES OF TEKİRDAĞ PROVINCE THROUGH MAPS**, Hüseyin SARI, Emre ÖZŞAHİN

11:00 - 11:10 **PRIORITIZATION OF THE AFFECTING FACTORS ON LANDSLIDES: A CASE STUDY OF THE DOAB SAMSAMI WATERSHED, IRAN**, Sayed Naeim EMAMI, Aleksandar VALJAREVIC

11:10 - 11:20 **AERIAL DEPOSITION OF POLYETHYLENE MICROPLASTICS AFFECTS TOMATO (SOLANUM LYCOPERSICUM L.) RHIZOSPHERE SOIL ECOLOGY**, Oussama BOUAICHA, Fabio TREVISAN, Raphael TIZIANI, Martin BRENNER, Wolfram WECKWERTH, Luigi LUCINI, Stefano CESCO, Tanja MIMMO, Luigimaria BORRUSO

11:20 - 11:30 **BIOTECHNOLOGICAL COMBINATION FOR CO-CONTAMINATED SOIL REMEDIATION: FOCUS ON TRIPARTITE "META-ENZYMATIC" ACTIVITY**, Maria TARTAGLIA, Daniela ZUZOLO, Alessia POSTIGLIONE, Antonello PRIGIONIERO, Pierpaolo SCARANO, Rosaria SCIARRILLO, Carmine GUARINO

11:30 - 11:45 **DISCUSSION**

11:45 - 12:00 **PAUSE**

Working committee

Chairpersons: Jan FROUZ, Jaroslava FROUZOVA

12:00 - 12:10 THE USE OF RESPONSE SURFACE METHODOLOGY FOR MODELING OF LEAD SORPTION BY SEPIOLITE, Ebrahim SEPEHR, Marzieh PIRI, Abbas SAMADI, Khalil FARHADI, Mohammad ALIZADEH

12:10 - 12:20 PESTICIDES POLLUTION FROM AGRICULTURE ACTIVITIES IN THE ALTINAPA RESERVOIR WATERSHED, TURKEY, Nuray ATES, Filiz DADASER-CELIK, S. Sule KAPLAN-BEKAROGU

12:20 - 12:30 BIOFILM – MULTICELLULAR ORGANISMS COMMUNITY, Tomasz CŁAPA, Dorota NAROŻNA, Damian NIKODEM, Jakub MICHALSKI

12:30 - 12:40 DISCUSSION

13:00 - 14:00 Mountain cable car ride

14:00 - 15:30 Lunch break

Working committee

Chairpersons: Branislav DRASKOVIC

15:30 - 15:40 DYNAMIC INTERACTIVE WATER ALLOCATION CONCEPT: MORE MANAGEMENT FLEXIBILITY ALLOWS FOR BETTER WATER CONSERVATION IN TUNISIA'S MEDJERDA RIVER BASIN (MRB), Aymen SAWASSI, David ROSENBERG, Brian CROOKSTON

15:40 - 15:50 APPLICATION OF HIGH SALT-TOLERANT MICROORGANISMS IN ORDER TO IMPROVE THE QUALITY OF WASTEWATER FROM AQUACULTURE IN TIEN GIANG, VIETNAM, Huong Thi Thu TRUONG, My Hoang NGUYEN, Anh Hung LE

15:50 - 16:00 MICROPLASTIC POLLUTION AND LAND USE TYPE: THE CASE STUDY OF VOLTURNO RIVER, Maria MAISTO, Daniela ZUZOLO, Maria Antonietta RANAUDA, Valter CASTELVETRO, Andrea CORTI, Francesca MODUGNO, Antonello PRIGIONIERO, Pierpaolo SCARANO, Alessia POSTIGLIONE, Maria TARTAGLIA, Alessandra FALZARANO, Rosaria SCIARRILLO, Carmine GUARINO

16:00 - 16:10 EVALUATION OF BEST MANAGEMENT PRACTICES FOR CONTROLLING SEDIMENT AND NUTRIENT TRANSPORT AT THE DEVELI BASIN, TURKEY, Filiz DADASER-CELIK

16:10 - 16:20 RECOVERY AND UTILIZATION ANALYSIS OF PAPER AND PAPERBOARD BY YEARS IN TURKEY, Gülnur MERTOĞLU ELMAS, Alper ERTÜRK

16:20 - 16:30 A NOVEL APPROACH TO THE ENCAPSULATION OF THYME ESSENTIAL OIL, Dilhun Keriman ARSERİM-UÇAR

16:30 - 16:45 DISCUSSION

16:45 - 17:00 PAUSE

Working committee

Chairpersons: Branislav DRASKOVIC

17:00 - 17:10 USING DUBININ-RADUSHKEVICH ISOTHERM TO INTERPRET CADMIUM SORPTION ON AGRICULTURAL PRUNING RESIDUE BIOCHAR, Ebrahim SEPEHR, Roghaye HAMZENEJAD, Abbas SAMADI, MirHassan RASOULI-SADAGHIANI, Habib KHODAVERDILOO

17:10 - 17:20 SUITABILITY OF SOME OAK SPECIES FOR PAPERMAKING, Gülnur Mertoğlu ELMAS, Defne Zekiye ÖZTÜRK

17:20 - 17:30 RAW MATERIAL CHARACTERIZATION OF WASTE PAPER, Gülnur MERTOĞLU ELMAS, Beyza KARABULUT

17:30 - 17:40 USE OF LEMNA MINOR IN PHYTOREMEDIATION PROCESS FOR REMOVAL OF HEAVY METALS IN SECONDARY PULP, Gülnur MERTOĞLU-ELMAS, Dilek ORAL, Serdar AKBURAK, Sultan Bekiroğlu ÖZTÜRK

17:40 - 17:50 DISCUSSION

17:50 - 18:00 PAUSE

18:00 - 18:30 POSTER SESSION

20:00 Gala dinner (live music and tasting of traditional and typical products)

Friday, October 7th, 2022
Conference Hall G (Hotel Board)

ANIMAL HUSBANDRY

09:00 - 18:00 - **REGISTRATION**

09:00 - 18:30 - **WORKING SESSIONS**

Working committee

Chairperson: Georgios S. AMIRIDIS, Tatjana KRAJISNIK

09:00 - 09:10 **BROILER GROWTH RESPONSE AND BLOOD PARAMETERS AS INFLUENCED BY SUPPLEMENTAL EUGENOL AND BUTYRIC ACID**, Mir Daryoush SHAKOURI, Seyedeh Azam KHATAMI, Nemat HEDAYAT EVRIGH

09:10 - 09:20 **STUDY ON AEROSOL EMISSIONS IN PIG FARMS**, Daniela Cristiana ALEXANDRESCU

09:20 - 09:30 **RESEARCH ON LIVE FOOD PRODUCTION FOR FISH**, Daniela Cristiana ALEXANDRESCU, Mioara COSTACHE, Loredana Beatrice NEAGU FRĂSIN

09:30 - 09:40 **COMPARING THE EGG QUALITY TRAITS OF DIFFERENT LAYER GENOTYPES RAISED IN A FREE-RANGE SYSTEM**, Ali AYGÜN, Fatma Özlem CALIK, Dogan NARİNC

09:40 - 09:50 **COMPARISON OF FEAR RESPONSES AND GROWTH CHARACTERISTICS OF QUAILS REARED IN DIFFERENT CAGES AND STOCKING DENSITIES**, Dost Mohammad HAQYAR, Ali AYGÜN, Doğan NARİNC

09:50 - 10:00 **IS THE JAPANESE QUAIL A PRODUCTION MATERIAL OR A MODEL ANIMAL?**, Dost Mohammad HAQYAR, Ali AYGÜN, Doğan NARİNC

10:00 - 10:15 **DISCUSSION**

10:15 - 10:30 **PAUSE**

Working committee

Chairpersons: Daniela Cristiana ALEXANDRESCU, Tatjana KRAJISNIK

10:30 - 10:40 **EFFECTS OF PLUMAGE COLOR MUTATIONS ON GROWTH, FEED EFFICIENCY, AND CARCASS CHARACTERISTICS IN JAPANESE QUAIL**, Dost Mohammad HAQYAR, Ali AYGÜN, Doğan NARİNC

10:40 - 10:50 **POULTRY BEHAVIOUR AND WELFARE**, Esra KARADUMAN, Doğan NARİNC

10:50 - 11:00 **BEHAVIORAL CHARACTERISTICS IN JAPANESE QUAILS APPLIED TO DIFFERENT MONOCHROMATIC LIGHTING**, Esra KARADUMAN, Sezgi KARAL, Doğan NARİNC

11:00 - 11:10 **ENVIRONMENTAL SUSTAINABILITY FOR POULTRY PRODUCTION**, Esra KARADUMAN, Doğan NARİNC

11:10 - 11:20 **BREEDING POSSIBILITIES AND CURRENT SITUATION OF ANATOLIAN BUFFALO HUSBANDRY IN BİNGÖL PROVINCE OF TÜRKİYE**, Turgut AYGÜN

11:20 - 11:30 **OVERVIEW OF BREEDERS REGARDING OCCUPATIONAL HEALTH AND SAFETY IN ANIMAL HUSBANDRY IN TÜRKİYE**, Turgut AYGÜN

11:30 - 11:45 **DISCUSSION**

11:45 - 12:00 **PAUSE**

Working committee

Chairperson: Daniela Cristiana ALEXANDRESCU, Tatjana KRAJISNIK

12:00 - 12:10 **TRANSHUMANCE ACTIVITIES AND PROBLEMS IN SMALL RUMINANT HUSBANDRY IN BİNGÖL PROVINCE OF TÜRKİYE**, Turgut AYGÜN

12:10 - 12:20 **EFFECTS OF FEEDING DRY OLIVE CAKE ON MILK PRODUCTION AND ON FERTILITY PARAMETERS IN HOLSTEIN COWS**, Ioannis NANAS, Stella DOKOU, Thomas Markos CHOUZOURIS, Eleni DOVOLOU, Ilias GIANNENAS, Georgios S. AMIRIDIS

12:20 - 12:30 **DISCUSSION**

13:00 - 14:00 **Mountain cable car ride**

14:00 - 15:30 **Lunch break**

Working committee

Chairperson: Aleksejs ZACEPINS

15:30 - 15:40 **EXTRACTION, CHARACTERIZATION, AND EVALUATION THROUGH IN VITRO STUDIES OF THE ANTHELMINTIC EFFICACY OF PASTEUR PLANT SPECIES FOR BIOLOGICAL CONTROL OF SHEEP GASTROINTESTINAL NEMATODES (GIN)**, Pierpaolo SCARANO, Antonio BOSCO, Antonello PRIGIONIERO, Stefania IERVOLINO, Daniela ZUZOLO, Maria TARTAGLIA, Alessia POSTIGLIONE, Maria MAISTO, Maria Antonietta RANAUDA, Alessandra FALZARANO, Giuseppe CRINGOLI, Carmine GUARINO, Rosaria SCIARRILLO

15:40 - 15:50 **INVESTIGATING THE EFFECTS OF CERIUM NITRATE (CN) AND PLATELET-RICH PLASMA (PRP) TREATMENTS ON THE RAT TESTICULAR TISSUE IN RECOVERING STASIS ZONE AFTER BURNS**, Ismail BOLAT, Kubra Asena TERIM KAPAKIN, Ali Dogan OMUR, Firat OZER, Esra MANAVOGLU KIRMAN

15:50 - 16:00 **INVESTIGATION OF THE EFFECT OF INTRANASAL LTA AND LPS IMPLEMENTATION ON GENE EXPRESSION IN THE IMMUNE SYSTEM PATHWAY WITH CORRELATION ANALYSIS IN SHEEP**, Esma Gamze AKSEL, Bilal AKYÜZ

16:00 - 16:10 **CHALLENGES FACING A PLATFORM FOR LINKING SMALL MILK PRODUCERS (SMPS) WITH MARKETS IN TWO VILLAGES IN THE NILE VALLEY OF EGYPT**, Emad M. El-Shafie, Radwa M. Ata

16:10 - 16:20 **APPLICATION OF THE INTERNET OF THINGS IN PRECISION BEEKEEPING IN LATVIA**, Aleksejs ZACEPINS, Vitalijs KOMASILOVS, Jans JELINSKIS, Niks OZOLS, Armands KVIESIS

16:20 - 16:30 **FIRST RESULTS ON THE HONEY BEE DISEASES IN BOLU PROVINCE, TURKEY**, Mustafa YAMAN, Tuğba SAGLAM

16:30 - 16:45 **DISCUSSION**

16:45 - 17:00 **PAUSE**

17:00 - 17:30 **POSTER SESSION**

20:00 **Gala dinner (live music and tasting of traditional and typical products)**

Friday, October 7th, 2022
Conference Hall C (Hotel Termag)

RURAL DEVELOPMENT AND AGRO-ECONOMY

09:00 - 18:00 - REGISTRATION

09:00 - 18:30 - WORKING SESSIONS

Working committee

Chairperson: Hamid El BILALI, Fanos BIRKE

09:00 - 09:10 **PEASANT AND NATURE AT THE ONSET OF MODERN FORMS OF FARMING IN CZECH LANDS**, Martina TOBIASOVA, Zbynek ULCAK

09:10 - 09:20 **SMALL VEGETABLE GROWERS (SVGS) SATISFACTION ABOUT THE AGRICULTURAL AND EXTENSION SERVICES (EASS) PROVIDED BY PUBLIC PRIVATE PARTNERSHIPS IN BENI-SUEF GOVERNORATE, EGYPT**, Emad M. El-Shafie, Radwa M. Ata

09:20 - 09:30 **BECOMING REFLECTIVE PROJECT PARTNERS: A FRAMEWORK TO IMPLEMENT INDIVIDUAL REFLECTION IN A MULTI-ACTOR PROJECT**, Sangeun BAE, Andrea KNIERIM, Maria GERSTER-BENTAYA, Fanos BIRKE

09:30 - 09:40 **SUSTAINABILITY OF NEGLECTED AND UNDERUTILISED SPECIES (NUS): TOWARDS AN ASSESSMENT MATRIX FOR CROP SPECIES**, Hamid EL BILALI, Gianluigi CARDONE, Susanna ROKKA, Abdel Kader NAINO JIKA, Eleonora DE FALCIS, Ali Badara DIAWARA, Bassirou NOUHO, Andrea GHIONE

09:40 - 09:50 **ATTITUDES ON SOCIAL SOLIDARITY ECONOMY IN A REGIONAL CONTEXT: CASE OF THE REGION OF WESTERN MACEDONIA IN GREECE**, Effrosyni SAPARDANI, Prodromos TOKMAKIDIS, Katerina MELFOU, Fotios CHATZITHEODORIDIS

09:50 - 10:00 **PROMOTING DIVERSIFICATION AND FOOD SAFETY IN LOCAL VALUE CHAINS: THE CASE OF FRUITS IN OMATE VALLEY, PERU**, Elias ESCOBEDO-PACHECO, Noelia BEDOYA-PERALES, Diogo MAUS, Karina EDUARDO PALOMINO, Adelisa FLORES ARPASI, Yoselin CARI BAUTISTA

10:00 - 10:15 **DISCUSSION**

10:15 - 10:30 **PAUSE**

Working committee

Chairpersons: Hamid El BILALI, Zbynek ULCAK

10:30 - 10:40 **GREEN CONSUMPTION IN VIETNAM A CASE STUDY OF YOUNG PEOPLE IN HANOI**, Nguyen Thi HAI NINH

10:40 - 10:50 **ESTIMATING THE MAGNITUDE OF FOOD LOSSES AND WASTE GENERATED IN PERU**, Noelia S. BEDOYA-PERALES, Glenio Piran Dal' Magro

10:50 - 11:00 **HOW DID FOOD SAFETY KNOWLEDGE, ATTITUDES, AND PRACTICES IN BOSNIA-HERZEGOVINA EVOLVE AFTER TWO YEARS OF COVID-19?**, Tarek BEN HASSEN, Sinisa BERJAN, Hamid EL BILALI, Mohammad S. ALLAHYARI, Zeljko VASKO, Drago CVIJANOVIC, Dejan SEKULIC

11:00 - 11:10 **DELIVERANCE OF RURAL MARKETS THROUGH CLIMATE-SMART TECHNOLOGIES: CASE STUDY OF GLADSTONE VILLAGE, FREE STATE PROVINCE, SOUTH AFRICA**, Thabiso Andries Benedict KOATLA

11:10 - 11:20 **DEVELOP FISH FARMING TO SAVE AGRICULTURE**, Ouatmane MUSTAPHA, Jilali BEN DRISS

11:20 - 11:30 **VEGETABLE GARDENS EFFECTS ON HOUSHOLDS' SUSTAINABILITY IN THE GERT SIBANDE DISTRICT, SOUTH AFRICA: A MESMIS MODEL APPROACH**, Mmakhashu P. SECHUBE, Erika VAN DEN HEEVER, Phokele MAPONYA, Sonja L. VENTER

11:30 - 11:45 **DISCUSSION**

11:45 - 12:00 **PAUSE**

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Chairperson: Nebojsa NOVKOVIC

12:00 - 12:10 TENDENCIES AND PREDICTION OF MAIN ANIMAL PRODUCT PRICES AND PRICE PARITY IN SERBIA, Nebojša NOVKOVIC, Ljiljana DRINIĆ, Beba MUTAVDŽIĆ, Blagoje PAUNOVIĆ

12:10 - 12:20 THE EFFECT OF DEMOGRAPHIC FACTORS AND CONSUMER BEHAVIOURS ON RED MEAT CONSUMPTION EXPENDITURES, Nilgün DOĞAN, Hakan ADANACIOGLU

12:20 - 12:30 MARKETING CHANNEL PREFERENCES OF DAIRY PRODUCERS AND THEIR PRICES: THE CASE OF GÜMÜŞHANE PROVINCE, Nilgün DOĞAN, Hakan ADANACIOGLU

12:30 - 12:40 DISCUSSION

13:00 - 14:00 Mountain cable car ride

14:00 - 15:30 Lunch break

15:30 - 16:00 POSTER SESSION

20:00 Gala dinner (live music and tasting of traditional and typical products)

Friday, October 7th, 2022
Conference Hall E (Hotel Vucko)

FORESTRY AND AGRO-FORESTRY

- 09:00 - 18:00** - REGISTRATION
09:00 - 18:30 - WORKING SESSIONS

Working committee

Chairperson: Srdjan LJUBOJEVIC, Marko GUTALJ

- 09:00 - 09:10** **ECOLOGICAL CHARACTERISTICS OF GREEK MAPLE (ACER HELDREICHII ORPH.) IN PRIMEVAL FORESTS „PERUĆICA” AND „BIOGRADSKA GORA”,** Marko PEROVIĆ, Olivera KOŠANIN, Rade CVJETIČANIN – **INTRODUCTORY PAPER**
- 09:10 - 09:20** **EU-LIFE FUTURE FOREST PROJECT: MONITORING METHODS FOR QUANTIFICATION OF ECOSYSTEM SERVICES OF PERMANENT FORESTS,** Christian DIEHL, Dominik LANDERER, Stefan WITTKOPF
- 09:20 - 09:30** **LONG-TERM DYNAMICS OF SUBCANOPY LAYER AS NEW LAYER IN AN OAK FOREST OF HUNGARY,** Tamás MISIK, Imre KÁRÁSZ
- 09:30 - 09:40** **A TOOL FOR ECOSYSTEM SERVICES AND DISSERVICES ASSESSMENT IN URBAN FORESTS: THE CASE OF THE REAL BOSCO DI CAPODIMONTE, NAPLES,** Alessia POSTIGLIONE, Antonello PRIGIONIERO, Bruno PAURA, Daniela ZUZOLO, Maria TARTAGLIA, Pierpaolo SCARANO, Maria MAISTO, Maria Antonietta RANAUDA, Rosaria SCIARRILLO, Carmine GUARINO
- 09:40 - 09:50** **USE OF BY-PRODUCTS IN FORESTRY AND AGROFORESTRY SYSTEMS AS ALTERNATIVE TO MINERAL FERTILISERS,** Austra ZUŠEVICA, Kārlis DŪMIŅŠ, Aleksandrs ADAMOVIČS, Dagnija LAZDIŅA
- 09:50 - 10:00** **DOES SOIL TILLAGE BEFORE AFFORESTATION CONTRIBUTE TO HIGHER CARBON STOCKS?,** Gediminas SURVILA, Iveta VARNAGIRYTĖ-KABAŠINSKIENĖ
- 10:00 - 10:15** **DISCUSSION**
- 10:15 - 10:30** **PAUSE**

Working committee

Chairpersons: Marko GUTALJ, Marko PEROVIĆ, Srdjan LJUBOJEVIC

- 10:30 - 10:40** **IOT MONITORING OF QUERCUS ROBUR TREES IN BOSUT FOREST, SERBIA,** Alex YAROSLAVTSEV, Miljan SAMARDŽIĆ, Zoran GALIĆ
- 10:40 - 10:50** **ECOLOGICAL ASSESSMENT OF SOIL CO2 EMISSIONS IN POST-AGROGENIC SUCCESSION OF FALLOW OVERGROWTH BY FOREST ON PODZOLUVISOLS,** Ivan VASENEV, Tatyana KOMAROVA, Ade ELVIRA, Miljan SAMARDZIC, Zoran GALIĆ
- 10:50 - 11:00** **PRESENT AND FUTURE AGROFORESTRY LAND SUITABILITY ANALYSIS IN CENTRAL PORTUGAL USING MULTICRITERIA DECISION ANALYSIS,** Luís QUINTA-NOVA
- 11:00 - 11:10** **AGROFORESTRY AND PUBLIC PRIVATE PARTNERSHIP: A CASE STUDY OF AGROSILVICULTURE COMMUNITY GROWERS IN MPUMALANGA PROVINCE, SOUTH AFRICA,** Phokele MAPONYA, Kalashe NWABISA, Thabo NKUNA, Meshack MAKHWEDZHANA, Mmakhashu Patience SECHUBE
- 11:10 - 11:20** **ECOSYSTEM SERVICES AND EUROPEAN GREEN INFRASTRUCTURE STRATEGY: THE ROLE OF THE URBAN AND PERI-URBAN FORESTS,** Ignacio J. DIAZ-MAROTO
- 11:20 - 11:30** **CONSERVATION OF BIODIVERSITY IN URBAN FORESTS AND ITS LANDSCAPE BOUNDARIES,** Ignacio J. DIAZ-MAROTO

11:30 - 11:45 DISCUSSION

11:45 - 12:00 PAUSE

12:00 - 12:30 POSTER SESSION

13:00 - 14:00 Mountain cable car ride

14:00 - 15:30 Lunch break

20:00 Gala dinner (live music and tasting of traditional and typical products)

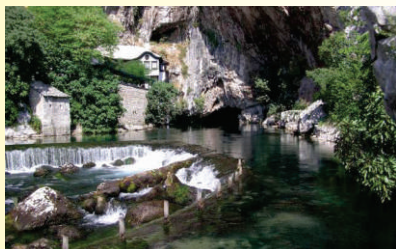
The Symposium has organized whole day tour to Mostar and tourist attractions in the surroundings of Mostar. Included: professional tourist guides; box lunch; refreshments; and typical Bosnian mix fruit snacks.

08:30 - 19:00

EXCURSION (Departure from hotel Termag-Vucko-Board)

Mostar

Mostar is a city and municipality in Bosnia and Herzegovina, the largest and one of the most important cities in the Herzegovina region, its cultural capital. Mostar is situated on the Neretva river and is the fifth-largest city in the country. The Old Bridge, built by the Ottomans in the 16th century, is one of Bosnia and Herzegovina's most recognizable landmarks. Mostar's Old Town is interesting for its lively narrow streets. There are a lot of catering facilities and handicraft shops around which offer a variety of traditional goods.



Blagaj Tekija

Blagaj is a village-town in the south-eastern region of the Mostar basin, only 12 km far from Mostar. Blagaj is the oases of peace and natural harmony and it was most likely named for its mild weather patterns since "blaga" in local language means "mild". This lovely touristic destination is situated at the spring of the Buna river and a historical tekke (tekija or Dervish monastery). The Blagaj Tekija was built around 1520.

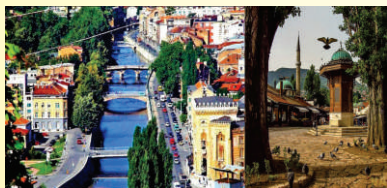
Počitelj Old City

Počitelj is beautiful old stone town, the UNESCO heritage site. The historic urban site of Počitelj is located on the left bank of the river Neretva, on the main Mostar to Metković road, to the south of Mostar, in the territory of Čapljina Municipality. Today, the historical town of Počitelj, built under the fortress, has an oriental style, and as such is completely in the function of tourism and cultural events.



20:00

DINNER AT HOTEL



Sunday, October 9th, 2022

SARAJEVO HALF DAY GUIDED POST-CONFERENCE EXCURSION
(price 20 euro per person)

09:00 - 13:00

Included: visit to Sarajevo Old City; visit to spring of the river Bosna; professional tourist guides; refreshments and typical Bosnian fruit mix snacks.

14:00 LUNCH AT HOTEL

15:00 DEPARTURE

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Friday, October 7th, 2022

POSTER SESSION

Posters will be presented in e-version (no printed posters)

PLANT PRODUCTION

Conference Hall A (Hotel Termag)

Friday, (October 7th, 2022), 18:00 - 18:30

Working committee

Chairpersons: Sofija PETROVIC, Miodrag DIMITRIJEVIC, Dusan KOVACEVIC

- P 01 INVESTIGIME MBI EFIKASITETIN E DISA BIOPRODUKTEVE NE KONTROLLIN BIOLOGJIK NDAJ HIRIT [*Uncinula necator* (Schw.)] NE HARDHI**, Suela SPAHIU, Hekuran VRAPI, Mariana NIKOLLA, Thanas RUCI
- P 02 PHYTOCHEMICAL SCREENING, ANTIMICROBIAL AND ANTIOXIDANT EFFICACY OF THE ENDOCARPS FRUITS OF *ARGANIA SPINOSA* L. SKEELS (*SAPOTACEAE*)(MOSTAGANEM)**, H. SEBAA, F. CHERIFI, M. DJABEUR ABDERREZAK
- P 03 DNA MARKERS AS A MEANS OF ASSESSING THE GENETIC DIVERSITY AND IDENTIFICATION OF GRASSES**, Iryna KONDRATSKAYA, Andrey YUKHIMUK, Olga CHIZHIK, Vladimir RESHETNIKOV
- P 04 MODERN BIOTECHNOLOGICAL APPROACHES TO THE BERRY CROPS STUDY (*VACCINIUM CORYMBOSUM* L.)**, Olga CHIZHIK, Andrei YUKHIMUK, Iryna KONDRATSKAYA, Vladimir RESHETNIKOV
- P 05 DOMESTICATION OF *CRASSOCEPHALUM CREPIDIODES* (BENTH.) S. MOORE. WILD LEAFY VEGETABLE: OPTIMAL FERTILIZATION WITH ORGANIC MANURE AND REJECTION DYNAMICS AFTER CUTTING**, Justin DOSSOU, Bienvenu SOUROU, Apollinaire WEDJANGNON, Towanou HOUETCHEGNON, André ADJOGBOTO, Christine OUIINSAVI
- P 06 CARROT QUALITY DEPENDING ON THE TYPE OF ROOT**, Aleksandra GOVEDARICA-LUČIĆ, Sanid PAŠIĆ, Sanja KOVAČEVIĆ
- P 07 DETERMINATION OF PHYSICAL AND CHEMICAL PROPERTIES OF FRUITS OF DIFFERENT PEAR VARIETIES**, Lejla HERIĆ, Alma MIČIJEVIĆ, Aida ŠUKALIĆ, Alma LETO
- P 08 INFLUENCE OF LOCATION AND YEAR ON GRAIN, PROTEIN AND FAT YIELD OF SELECTED FORAGE PEA VARIETIES**, Igor ĐURĐIĆ, Tatjana KRAJIŠNIK, Branka GOVEDARICA, Tanja MIJATOVIĆ, Nikola DEMONJIC, Vesna MILIĆ
- P 09 QUALITY AND ENERGY VALUE OF FEED PEAS**, Igor ĐURĐIĆ, Tatjana KRAJIŠNIK, Branka GOVEDARICA, Tanja MIJATOVIĆ, Vesna MILIĆ, Željko LAKIĆ
- P 10 EXAMINATION OF THE VIABILITY OF BARLEY SEEDS USING THE TETRAZOLIUM TEST**, Mirjana JOVOVIĆ, Zoranka MALEŠEVIĆ, Lenka TOPALOVIĆ
- P 11 THE INFLUENCE OF THE ROOTSTOCK ON THE PROPERTIES OF LEAF OF PLUM (*PRUNUS DOMESTICA* L.) CULTIVARS**, Mirjana RADOVIĆ, Dragan MILATOVIĆ, Gordan ZEC, Đorđe BOŠKOV
- P 12 SIGNIFICANCE OF FERTILIZATION AND SOIL TYPE FOR THE DEVELOPMENT OF SUNFLOWER (*HELIANTHUS ANNUUS*)**, Ana KATSAROVA, Zdravka PETKOVA, Iliana GERASSIMOVA
- P 13 EFFECT OF FERTILIZATION ON UPTAKE OF MACROELEMENTS WITH SUNFLOWER BIOMASS IN A POT EXPERIMENT WITH HAPLIC VERTISOL**, Iliana GERASSIMOVA, Ana KATSAROVA, Zdravka PETKOVA
- P 14 IDENTIFICATION OF STORAGE ENDOSPERM PROTEINS WITHIN DURUM WHEAT CULTIVARS GROWN IN BULGARIA**, Sonya DONEVA
- P 15 SIGNIFICANCE OF FERTILIZATION FOR WINTER WHEAT DEVELOPMENT AND YIELD IN A FIELD EXPERIMENT ON ALLUVIAL MEADOW SOIL**, Zdravka PETKOVA, Irena ATANASSOVA, Ana KATSAROVA, Iliana GERASSIMOVA

- P 16 SOILS OF THE SUDANO-SAHELIAN ZONES OF BURKINA FASO: TYPOLOGY, DISCRIMINATORY SOIL PARAMETERS AND AGRONOMIC POTENTIAL**, Koulibi Fidèle ZONGO, Daouda GUEBRE, Abdramane SANON, Edmond HIEN
- P 17 INFLUENCE OF INTERCROPPING SWEET SORGHUM WITH CLIMBING BEAN ON FORAGE YIELD AND QUALITY**, Darko UHER, Zlatko SVEČNJAK, Zvonko PACANOSKI, Dubravka DUJMOVIC-PURGAR, Martina KOVAČEVIĆ, Ivan HORVATIC
- P 18 YIELD COMPONENTS OF FOREIGN SUNFLOWER HYBRIDS IN EASTERN CROATIA**, Ivana VARGA, Katarina DAMJANOVIĆ, Marija JELUŠIĆ, Monika TKALEC KOJIĆ, Dario ILJKIĆ, Vladimir ZEBEC, Antonela MARKULJ KULUNDŽIĆ, Manda ANTUNOVIĆ
- P 19 THE POTENTIAL OF LED ILLUMINATION ON THE YIELD, MORPHOLOGICAL PROPERTIES AND COLORATION OF BROCCOLI MICROGREENS**, Roberta VRKIĆ, Kristijan DEBELEC, Božidar BENKO, Jana ŠIĆ-ŽLABUR
- P 20 EFFECT OF SOME AGRONOMIC PRACTICES ON CLIMATE CHANGE MITIGATION OF LEGUMES UNDER EGYPTIAN CONDITIONS**, Ezzat M. ABD EL LATEEF, Mostafa ABD ESSALAM
- P 21 RELATIONSHIP BETWEEN PHOSPHORUS STATUS AND NITROGEN FIXATION BY COMMON BEANS (*PHASEOLUS VULGARIS* L.) UNDER DRIP IRRIGATION**, Hesham Aslan ATTAR, D. BLAVET, E. M. SELIM, M. T. ABDELHAMID, J. J. DREVON
- P 22 PERFORMANCE OF MAIZE (*ZEA MAYS* L.) AND ASSOCIATED WEEDS UNDER INTEGRATED WEED CONTROL MANAGEMENT**, Ola Z. EL-BADRY, El-Sayed M. S. GHEITH
- P 23 IDENTIFICATION OF GENOMIC REGIONS ASSOCIATED WITH AGRONOMICAL TRAITS OF BREAD WHEAT UNDER TWO LEVELS OF SALINITY USING GWAS**, Fahad ALOTAIBI, Rahmah N. AL-QTHANIN, Maha ALJABRI, Tariq SHEHZAD, Mohammed ALBAQAMI, Salah Fatouh ABOU-ELWAFA
- P 24 EFFECTS OF COMPOST APPLICATION RATES AND MULCH THICKNESS ON TOMATO YIELD UNDER SALT AFFECTED SOIL OF EAST SHEWA OROMIA NATIONAL REGIONAL STATE, ETHIOPIA**, Derartu SEDATA, Amare HAILESASSIE, Adugna DEBELA
- P 25 EXPLORING AN INVASIVE PLANT *SOLIDAGO CANADENSIS* AS THE POTENTIAL SOURCE OF TRITERPENOID**, Coralie FOURCADE, Cezary PAĆZKOWSKI, Anna SZAKIEL
- P 26 EVALUATION OF A MEDICINAL PLANT *ECHINACEA PURPUREA* IN TERMS OF STEROID AND TRITERPENOID CONTENT**, Sara PAGEAUX, Cezary PAĆZKOWSKI, Anna SZAKIEL
- P 27 ASSESSING THE GENETIC DIVERSITY OF COWPEA [*VIGNA UNGUICULATA* (L.) WALP.] NOVEL COWPEA BREEDING LINES USING PHENOTYPIC AND MICROSATELLITE MARKERS**, Aaron Tetley ASARE, Joshua Yeboah ASIAMAH, Francis KUSI, Attamah PATRICK, Frank ESSEM, Haruna PETER, Samuel ACHEAMPONG
- P 28 GROWTH OF MEDITERRANEAN SAGE SPECIES AND INTERSPECIFIC HYBRIDS UNDER LIMITED IRRIGATION IN A GREEN ROOF**, Aikaterini N. MARTINI, Lamprini TASSOULA, Maria PAPAFOOTIU, Eleftherios G. STYLIAS, Anastasios KALANTZIS, Eleftherios DARIOTIS
- P 29 EFFECT OF SEASON IN ROOTING STEM-TIP CUTTINGS OF MEDITERRANEAN SAGES (*Salvia* spp.) NATIVE TO GREECE**, Aikaterini N. MARTINI, Konstantinos F. BERTSOUKLIS, Georgia VLACHOU, Maria PAPAFOOTIU
- P 30 SELECTION IN THE ABSENCE OF COMPETITION OF HIGH-YIELDING INBRED LINES OF RUNNER BEAN UNDER HEAT STRESS**, Anastasia KARGIOTIDOU, Georgios MICHAS, Dimitrios VLACHOSTERGIOS, Angelos PAPADOPOULOS, Andriana LIANA Varsamas BERDANIS, Fokion PAPATHANASIOU
- P 31 OVER-ENVIRONMENT AGRONOMIC EVALUATION OF DURUM WHEAT VARIETIES FOR SUSTAINABLE PRODUCTION**, Elizabeth NINO, Evangelos KORPETIS, Ilectra SPERDOULI, Parthenopi RALLI, Vasilis Aschonitis, Afroditi TSABALLA, Catherine Margaret COOK, Maria IRAKLI, Anagnostis ARGIRIOU, Ioannis MYLONAS
- P 32 EVALUATION OF COMMERCIAL DURUM WHEAT (*TRITICUM TURGIDUM* L. VAR. DURUM) CULTIVARS IN DIFFERENT NITROGEN FERTILIZATION TIMING**, Elizabeth NINO, Theano GEORGIOU, Evangelos KORPETIS, Ilectra SPERDOULI, Parthenopi RALLI, Vasilis Aschonitis, Afroditi TSABALLA, Catherine Margaret COOK, Maria IRAKLI, Fokion PAPATHANASIOU, Nikos KATSENIOS, Aspasia EFTHYMIADO, Anagnostis ARGIRIOU, Ioannis MYLONAS
- P 33 GROWING DEGREE-DAYS METHOD FOR PREDICTING ANTHESIS DATE OF SUNFLOWER (*Helianthus annuus*) UNDER GREEK CONDITIONS**, Ippolitos GINTSIODIS, Kyriakos D. GIANNOULIS, Dimitrios BARTZIALIS, Elpiniki SKOUFOGIANNI, Nikolaos G. DANALATOS

- P 34 MORPHOLOGICAL ANALYSIS IN NEW INTERSPECIFIC HYBRIDS OF *SALVIA* SPP. ORIGINATED FROM *S. FRUTICOSA*, *S. OFFICINALIS*, *S. POMIFERA* SPP. *POMIFERA* AND *S. RINGENS***, Konstantinos F. BERTSOUKLIS, Aikaterini N. MARTINI, Sofia-Nikoleta ROUSSAKI, Ilias MELEAS, Maria PAPAFOTIOU
- P 35 MORPHOLOGICAL CHARACTERS OF NEW INTERSPECIFIC HYBRIDS OF SAGE ORIGINATED FROM *SALVIA OFFICINALIS*, *S. POMIFERA* SPP. *POMIFERA* AND *S. TOMENTOSA***, Konstantinos F. BERTSOUKLIS, Aikaterini N. MARTINI, Sofia-Nikoleta ROUSSAKI, Ilias MELEAS, Maria PAPAFOTIOU
- P 36 A FIRST STUDY ON FLOWER MORPHOLOGY OF SIX *ARBUTUS* SPECIES, ONE HYBRID AND ONE CULTIVAR OF THE MEDITERRANEAN BASIN AND NORTH AMERICA**, Konstantinos F. BERTSOUKLIS, Roy W. MARTIN, Maria PAPAFOTIOU
- P 37 IRRIGATION AND NITROGEN FERTILIZATION EFFECT ON CHAMOMILE PRODUCTION IN EAST THESSALY**, Kyriakos D. GIANNOULIS, Foteini LAVDI, Dimitrios BARTZIALIS, Ippolitos GINTSIODIS, Elpiniki SKOUFOGIANNI, Nikolaos G. DANALATOS
- P 38 MEDITERRANEAN SAGE HYBRID *Salvia officinalis* × *S. ringens* AS GROWN UNDER REDUCED IRRIGATION IN A GREENHOUSE AND AN EXTENSIVE GREEN ROOF**, Maria PAPAFOTIOU, Aikaterini N. MARTINI, Lamprini TASSOULA, Eleonora PAPANIKOLAOU, Eleftherios G. STYLIAS, Anastasios KALANTZIS
- P 39 GROWTH OF THE NEW *Salvia officinalis* × *S. tomentosa* HYBRID UNDER REDUCED IRRIGATION IN GREENHOUSE AND GREEN ROOF CONDITIONS**, Maria PAPAFOTIOU, Aikaterini N. MARTINI, Lamprini TASSOULA, Eleonora PAPANIKOLAOU, Eleftherios G. STYLIAS, Anastasios KALANTZIS
- P 40 THE EFFECT OF CYTOKININ TYPE AND CONCENTRATION ON *IN VITRO* MULTIPLICATION OF *SALVIA FRUTICOSA***, Maria PAPAFOTIOU, Georgia VLACHOU, Aikaterini N. MARTINI
- P 41 EFFECT OF EXPLANT TYPE AND BENZYLADENINE CONCENTRATION ON *IN VITRO* MULTIPLICATION OF *SALVIA TOMENTOSA***, Maria PAPAFOTIOU, Georgia VLACHOU, Aikaterini N. MARTINI
- P 42 THE EFFECT OF FERTILIZATION REGIMES ON GROWTH AND CHEMICAL COMPOSITION OF *CICHORIUM SPINOSUM* PLANTS**, Nikolaos POLYZOS, Maria KOMPOCHOLI, Alexios ALEXOPOULOS, Maria Ines DIAZ, Beatriz PASCHOALINOTTO, Lillian BARROS, Spyridon A. PETROPOULOS
- P 43 THE EFFECTS OF BIOSTIMULANTS ON MINT CULTIVATION UNDER DEFICIT IRRIGATION**, Christina CHASKI, Kyriakos D. GIANNOULIS, Alexios ALEXOPOULOS, Spyridon A. PETROPOULOS
- P 44 SEED PRIMING ENHANCES SEED GERMINATION AND SEEDLING GROWTH OF FIVE WILD EDIBLE SPECIES**, Paraskevi KATSIMANTOU, Stefania-Fani PLITSI, Chrysanthi FOTI, Ourania PAVLI, Spyridon A. PETROPOULOS
- P 45 EFFECT OF SALINITY ON GERMINATION AND SEEDLING GROWTH OF PUMPKIN GERMLASM**, Madgalini VOULTSIDOU, Chrysanthi FOTI, Ippolitos Gitsioudis, Ourania I. PAVLI, Spyridon A. PETROPOULOS
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Side Event 1 (Hotel Termag) - Great Hall

Exhibition of local handicrafts and traditional and typical products

Thursday and Friday, 6 - 7th of October 2022
Hotel Termag – Great conference hall (09:00 - 19:00)



Side Event 2 (Hotel Termag) - Great Hall

Tastings of dishes made from old peas and cereals varieties - Slow food Trebinje

Thursday 6th of October 2021
Hotel Termag – Great hall (12:00 - 14:00)

Sunday, October 9th, 2022
Conference Hall A (Hotel Termag)

08:30 - 09:00

- Final discussion and conclusions - Closing Ceremony

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