

AgroSym 2021

**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



in collaboration with



Jahorina, 7 - 10 October 2021, Bosnia and Herzegovina

SYMPOSIUM PROGRAMME

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Prof. dr Vojislav Trkulja, Director of Agricultural Institute of Republic of Srpska - Banja Luka, Bosnia and Herzegovina
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Dr Svetlana Balesevic-Tubic, Director of the Institute of Field and Vegetable Crops, Serbia
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Prof. dr Rodne Nastova, Director of the Institute for Animal Science, Skopje, Macedonia
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Prof. dr Radovan Pejanovic, President of Balkan Scientific Association of Agricultural Economics, Serbia

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

Thursday, October 7th, 2021
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: Hamid El BILALI, Junaid Alam MEMON, Nouredin DRIOUECH

16:00 - 16:20 - CUTTING-EDGE CROP BREEDING WITH CRISPR-CAS GENOME EDITING TECHNOLOGIES

Yiping QI

16:20 - 16:40 - REDEFINING THE COMPETITIVE IDEOTYPE OF A MODERN CROP VARIETY: AGRONOMY AND BREEDING PERSPECTIVES,

Ioannis TOKATLIDIS

16:40 - 17:00 - FACTORS DRIVING RECENT AND PROJECTED DEVELOPMENTS IN WORLD AGRICULTURAL MARKETS,

Patrick WESTHOFF

17:00 - 17:10 - PROJECT PRESENTATION: Sustainable economic development and environmental protection of areas with natural constraints in Bosnia and Herzegovina, Suzana MADZARIC

17:10 - 17:40 - DISCUSSION

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

20:00 - DINNER AT HOTEL AND ENTERTAINMENT EVENING



Friday, October 8th, 2021
Conference Hall A (Hotel Termag)

PLANT PRODUCTION 1a

09:00 - 18:00 - REGISTRATION

08:30 - 18:30 - WORKING SESSIONS

Working committee

Chairperson: Fokion PAPATHANASIOU

09:00 - 09:10 **THE EFFECT OF DIRECT USE OF LAKESIDE BIOMASSAS SOIL AMENDMENT ON THE PRODUCTIVITY OF DRY BEAN CROP**, Fokion PAPATHANASIOU, Anthousa TZOTZI, Irene KOUTSERI, Myrsini MALAKOU, Theodoros PARISIS, Ioannis PAPADOPOULOS

09:10 - 09:20 **IDENTIFICATION OF POPULATION-NEUTRAL MAIZE HYBRIDS USING PHYSIOLOGICAL TRAITS**, Fotis GEKAS, Fokion PAPATHANASIOU, Ioannis TOKATLIDIS

09:20 - 09:30 **RESPONSE OF BARLEY (HORDEUM VULGARE L.) TO FOLIAR APPLICATION OF SILICON**, Anja MAVRIČ, Aleksandra GOLOB, Nina KACJAN MARŠIČ, Mateja GERM

09:30 - 09:40 **THE EFFECT OF CLIMATE CHANGE AND THE INFORMATION SOURCES USED IN THE ENTERPRISES PRODUCING SUNFLOWERSEED**, Aysun YENER ÖGÜR, Muzaffer KAYGUSUZ, Şiyar BİLİK, Murat ALP

09:40 - 09:50 **PEANUT RESPONSE TO PLANTING PATTERN AND ROW SPACING**, Vasileios LIAKOS, Panagiotis VIRLAS, Maria KOKORA, Dimitris KALFOUNTZOS

09:50 - 10:00 **GRAIN YIELD AND SOME AGRONOMICAL CHARACTERISTICS OF TEFF [Eragrostis teff (Zucc.) Trotter] AS AFFECTED BY SOWING DATES**, Hakan GEREN, Tuğce OZDOĞAN CAVDAR, Aleksandar SIMIC, Zeljko S. DZELETOVIC

10:00 - 10:15 DISCUSSION

10:15 - 10:30 PAUSE

Working committee

Chairpersons: Fokion PAPATHANASIOU, Desimir KNEZEVIC

10:30 - 10:40 **THE INFLUENCE OF NITROGEN ON THE GRAIN YIELD AND SOME AGRONOMIC CHARACTERISTICS OF SWEET SORGHUM (Sorghum bicolor var. saccharatum)**, Tuğce OZDOĞAN CAVDAR, Esra CAM, Hakan GEREN

10:40 - 10:50 **SELECTION AT ULTRA-LOW DENSITY OF SECOND GENERATION LINES OF BEAN CULTIVARS UNDER WATER STRESS**, Fokion PAPATHANASIOU, Ioannis MYLONAS, Ilias AVDIKOS, Olga PETIDOU, Elisavet NINOÜ, Fotini PAPADOPOULOU, Ioannis PAPADOPOULOS

10:50 - 11:00 **VARIABILITY OF GRAIN SPIKE INDEX IN WHEAT (TRITICUM AESTIVUM L.)**, Desimir KNEŽEVIĆ, Dušan UROŠEVIĆ, Danica MIČANOVIĆ, Aleksandar PAUNOVIĆ, Danijela KONDIĆ, Vesna ĐUROVIĆ, Adriana RAĐOSAVAC, Jelica ŽIVIĆ, Mirela MATKOVIĆ STOJŠIN, Milomirka MADIC, Veselinka ZEČEVIĆ

11:00 - 11:10 **AGRO-MORPHOLOGICAL CHARACTERIZATION OF SIX-ROW BARLEY (HORDEUM VULGARE CONVAR. HEXASTICHON L.) LANDRACES**, Guray AKDOĞAN, Berk BENLIOĞLU, Namuk ERGUN, Huseyin DEMIRCI, Melih BILIR, Sinan AYDOĞAN, Ismail SAYIM

11:10 - 11:20 **ROLE OF DIFFERENT PHOSPHORUS LEVELS ON THE SEED YIELD AND SOME YIELD COMPONENTS OF CLUSTER BEAN (Cyamopsis tetragonoloba (L.) Taub.)**, Hakan GEREN, Tuğce OZDOĞAN CAVDAR, Zeynep SEN, Ahmet Sefa KUKTAS

11:20 - 11:30 **DETERMINATION OF ESSENTIAL OIL COMPONENTS, MINERAL MATTER, AND HEAVY METAL OF CLARY SAGE (SALVIA SCLAREA L.) COLLECTED FROM CENTRAL ANATOLIA IN TURKEY**, Tansu USKUTOĞLU, Belgin COŞGE ŞENKAL, Hülya DOĞAN

11:30 - 11:45 DISCUSSION

11:45 - 12:00 PAUSE

Working committee

Chairperson: Snjezana MLADENOVIC DRINIC, Desimir KNEZEVIC

12:00 - 12:10 EVALUATION AND SELECTION OF MAIZE GENOTYPES WITHOUT COMPETITION, Fokion PAPANASTASIOU, Chrysanthi PANKOU, Iosif SISTANIS, Michail ORFANOUDAKIS, Evaggelia SINAPIDOU, Ioannis PAPADOPOULOS, Ioannis TOKATLIDIS

12:10 - 12:20 EFFECT OF DIFFERENT WEED CONTROL PRACTICES ON YIELD OF SESAME CROP, Rady, M. O. A., H. MAHFOUZ, A. EKRAM MEGAWER, F.S. ABD EL-SAMIE

12:20 - 12:30 INFLUENCE OF BLUE AND RED LEDS ON DEVELOPMENT AND NUTRITIVE VALUE OF PERILLA FRUTESCENS (L.) CULTIVATED IN CLIMATE CHAMBERS, Nikolina GRABOVAC, Michael H. BÖHME

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 ENHANCEMENT OF THE CUCUMBER SEEDLING QUALITY THROUGH PRIMING WITH NaCl, Farjana PARVIN, Homayra AKHTER, Shahnewaz SHARIF, Shamim REZA, Debasish PAUL, Shreef MAHMOOD

15:40 - 15:50 MORPHOLOGICAL AND PRODUCTIVE CHARACTERIZATION OF SEVEN ACCESSIONS OF CAPPARIS SPINOSA L. SUBSP. RUPESTRIS IN LINOSA ISLAND IN ITALY, Nicolò IACUZZI, Mario LICATA, Salvatore LA BELLA, Teresa TUTTOLOMONDO, Davide FARRUGGIA

15:50 - 16:00 POTENTIAL GROWTH AND HERBAGE PRODUCTIVITY OF COMMON BURNET (*Poterium sanguisorba*) AS AFFECTED BY NITROGEN FERTILIZATION, Tugce ÖZDOĞAN CAVDAR, Deniz Alp AKCAY, Hakan GEREN

16:00 - 16:10 IDENTIFICATION AND CHARACTERIZATION OF DOF TRANSCRIPTION FACTOR GENE FAMILY IN CASHEW (*ANACARDIUM OCCIDENTALE*), Muhammad SHAFIQ, Maira SHAKEEL, Syed Agha ARMAGHAN ASAD ABBAS, Muhammad HASEEB, Numan ALI, Muhammad SALEEM HAIDER

16:10 - 16:20 "HOPE IN HOPS" -PROJECT OF UTILIZING THE EXISTENT AND CREATING A NOVEL GENE POOL TO REVIVING HOPS PRODUCTION IN SERBIA, Miodrag DIMITRIJEVIĆ, Sofija PETROVIĆ, Ján KIŠGECI, Tjhomir ZORANOVIĆ, Ján BOTÁNSKY, Borislav BANJAC, Jovan CRNOBARAC, Borivoj PEJIĆ, Vanja ERCEG

16:20 - 16:30 THE COMPARISON ANALYSIS OF SOFTWARE FOR MANTEL TEST BETWEEN DNA MARKERS AND MORPHOLOGICAL TRAITS OF PLANT VARIETIES, Larysa PRYSIAZHNIUK, Yevhenii STARYCHENKO, Svitlana HRYNIV, Yuliia SHYTIKOVA, Nadiia LESHCHUK, Serhii MELNYK, Oksana KLIACHENKO

16:30 - 16:45 DISCUSSION

16:45 - 17:00 PAUSE

Working committee

Chairperson: Michael H. BÖHME, Hakan GEREN

17:00 - 17:10 **THE INFLUENCE OF AGRONOMIC TECHNIQUES ON QUANTITATIVE AND QUALITATIVE PRODUCTION OF ESSENTIAL OILS OF SOME OFFICINAL SPECIES**, Davide FARRUGGIA, Mario LICATA, Salvatore LA BELLA, Teresa TUTTOLOMONDO

17:10 - 17:20 **IMPACT OF MACHINE LEARNING IN AGRICULTURAL RESEARCH**, Mahtem T. MENGSTU, Alper TANER, Yeşim Benal ÖZTEKİN, Hüseyin DURAN

17:20 - 17:30 **APPLICATION OF MACHINE VISION AND IMAGE PROCESSING TECHNIQUES IN ASSESSING THE QUALITY OF NUT PRODUCTS**, Omsalma Alsadig Adam GADALLA, Yeşim Benal ÖZTEKİN, Alper TANER, Hüseyin DURAN

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)**

Friday, October 8th, 2021
Conference Hall B (Hotel Termag)

PLANT PRODUCTION 1b

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

Working committee

Chairperson: Viktorija VAŠTAKAITĖ-KAIRIENĖ, Aleksandra GOVEDARICA-LUCIC

- 09:00 - 09:10** **FUNCTIONAL FOOD - PRODUCTS FROM TOMATO WITH LYCOPENE IN PREVENTION OF CARDIOVASCULAR DISEASES**, Hanadija OMANOVIC, Amna BIJEDIC, Deniz EKINCI
- 09:10 - 09:20** **WHY CONSUMERS PREFER GREEN FRIARIELLO PEPPER: CHANGES IN THE PROTEIN AND METABOLITE PROFILES ALONG THE RIPENING**, Maria TARTAGLIA, Rosaria SCIARRILLO, Daniela ZUZOLO, Angela AMORESANO, Anna ILLIANO, Gabriella PINTO, Jesús V. JORRÍN-NOVO, Carmine GUARINO
- 09:20 - 09:30** **EFFECT OF LIGHT PHOTOPERIOD ON GROWTH AND PHOTOSYNTHETIC INDICES OF KALE SEEDLINGS**, Viktorija VAŠTAKAITĖ-KAIRIENĖ, Kristina LAUŽIKĖ, Giedrė SAMUOLIENĖ, Sigita JURKONIENĖ
- 09:30 - 09:40** **EVALUATION OF THE EFFECT OF TESBI (STYRAX OFFICINALIS L.) SEED EXTRACTS ON SEEDLING DEVELOPMENT OF SOME PLANTS**, Tansu USKUTOĞLU, Belgin COŞGE ŞENKAL, Hülya DOĞAN
- 09:40 - 09:50** **BIOFORTIFICATION OF MUSTARD MICROGREENS WITH IRON THROUGH LIGHTING AND NUTRITION STRATEGIES**, Viktorija VAŠTAKAITĖ-KAIRIENĖ, Aušra BRAZAITYTĖ, Jurga MILIAUSKIENĖ, Kristina LAUŽIKĖ, Rūta SUTULIENĖ, Pavelas DUCHOVSKIS, Giedrė SAMUOLIENĖ
- 09:50 - 10:00** **PHYTOCHEMICAL CHARACTERIZATION OF STRAWBERRY TREE (ARBUTUS UNEDO L.) LEAVES AND FRUIT EXTRACTS AT VARIOUS RIPENESS**, Pierpaolo SCARANO, Antonello PRIGIONIERO, Alessia POSTIGLIONE, Maria MAISTO, Maria Antonietta RANAUDA, Maria TARTAGLIA, Daniela ZUZOLO, Carmine GUARINO, Rosaria SCIARRILLO
- 10:00 - 10:15** **DISCUSSION**
- 10:15 - 10:30** **PAUSE**

Working committee

Chairpersons: Irina MITROFANOVA

- 10:30 - 10:40** **VISCOELASTIC PROPERTIES OF APPLES UNDER VARIOUS MECHANICAL LOADING CONDITIONS**, Krzysztof GOŁACKI
- 10:40 - 10:50** **DETERMINATION OF THE PRODUCTIVITY AND DEVELOPMENT STATUS OF THE SECONDARY BUDS IN THE KARAERIK GRAPE VARIETY**, Muhammed KUPE, Sezai ERCISLI
- 10:50 - 11:00** **GROWTH AND DEVELOPMENT OF 'ALBION', 'PORTOLA' AND 'SWEET ANN' DAY-NEUTRAL STRAWBERRY VARIETIES IN SUMMER AND FALL CROP PRODUCTION**, Nazlı ATEŞ, Dilek SOYSAL, Derviş Emre DOĞAN, Leyla DEMİRSOY
- 11:00 - 11:10** **INVESTIGATION OF THE WAYS OF NEW HYBRID FORMS IN PEACH OBTAINING IN VITRO**, Irina MITROFANOVA, Nina LESNIKOVA-SEDOSHENKO, Svetlana CHELOVBIT, Olga MITROFANOVA
- 11:10 - 11:20** **'KSU-46' WALNUT CULTIVAR**, Mehmet SÜTYEMEZ, Şakir Burak BÜKÜCÜ, Akide ÖZCAN
- 11:20 - 11:30** **INFLUENCE OF LOCATION ON PHENOLOGICAL AND PRODUCTION PROPERTIES OF RASPBERRY (RUBUS IDAEUS L.)**, Radmila ILIĆ, Ivan GLIŠIĆ, Tomo MILOŠEVIĆ, Gorica PAUNOVIĆ, Tomislav CURČIĆ

11:30 - 11:45 DISCUSSION

11:45 - 12:00 PAUSE

Working committee

Chairperson: Irina MITROFANOVA

12:00 - 12:10 **FRUITING PATTERNS OF SOME STRAWBERRY CULTIVARS IN OPEN FIELD AND GREENHOUSE CONDITIONS**, Derya MISIR, Ayşenur KANDEMİR, Dilek SOYSAL, Adis LIZALO, Leyla DEMİRSOY

12:10 - 12:20 **EVALUATION OF TURKEY STONE FRUIT SAPLING PRODUCTION**, Mehmet SÜTYEMEZ

12:20 - 12:30 **FATTY ACID DIVERSITY IN CULTIVATED AND WILD APRICOTS FROM EASTERN ANATOLIA IN TURKEY**, Mehmet Ramazan BOZHUYUK, Sezai ERCISLI

12:30 - 12:40 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 8th, 2021
Conference Hall C (Hotel Termag)

PLANT PROTECTION AND FOOD SAFETY

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

Working committee

Chairperson: Dragana SUNJKA

- 09:00 - 09:10** **IDENTIFICATION OF XANTHOMONAS CAMPESTRIS PV. CAMPESTRIS ISOLATES CAUSING DISEASE ON CABBAGE IN NIĞDE PROVINCE OF TURKEY**, Murat ÖZTÜRK, Soner SOYLU
- 09:10 - 09:20** **THE NEW RACES OF PUCCINIA HELIANTHI SCHWEIN ON SUNFLOWER IN THE RUSSIAN FEDERATION**, Nina ARASLANOVA, Tatiana ANTONOVA, Ekaterina LEPESHKO, Tatiana USATENKO, Svetlana SAUKOVA, Maria IWEBOR, Yulya PITINOVA
- 09:20 - 09:30** **MORPHOLOGICAL CHARACTERISTICS OF EUTYPALATA ISOLATES FROM GRAPEVINE IN SERBIA**, Sanja ŽIVKOVIĆ, Tanja VASIĆ, Darko JEVREMOVIĆ, Vojislav TRKULJA
- 09:30 - 09:40** **INFLUENCE OF ENDOPHYTIC FUNGI ON WHEAT DISEASE INCIDENCE**, Jelena ILIC, N. PILINGER, J. COSIC, K. VRANDECIC
- 09:40 - 09:50** **REAL TIME PCR AND LAMP METHODS FOR DETECTION OF FLAVESCENCE DORÉE**, Mišaela VAKIĆ, Toufic ELBEAINO, Mihajlo VORUNA, Duška DELIĆ
- 09:50 - 10:00** **VIROLOGICAL RESEARCH ON ŽILAVKA AND BLATINA LOCAL GRAPE VARIETIES**, Ana CRNOGORAC, Ana MANDIĆ, Emanuela NORIS, Salvatore DAVINO, Slavica MATIĆ
- 10:00 - 10:15** **DISCUSSION**
- 10:15 - 10:30** **PAUSE**

Working committee

Chairpersons: Dragana SUNJKA

- 10:30 - 10:40** **SIDE EFFECTS OF SOME ESSENTIAL OILS ON TUTA ABSOLUTA (MEYRICK, 1917) (LEPIDOPTERA: GELECHIIDAE) LARVAE UNDER LABORATORY CONDITIONS**, Buğse TAŞKIRANOĞULLARI, Nimet SEMA GENÇER
- 10:40 - 10:50** **IDENTIFICATION OF MITES ASSOCIATED WITH CITRUS CROP (Citrus sp.) IN THE DEPARTMENT OF CALDAS, COLOMBIA**, Daniel CASTAÑO-SUAREZ, Juan Manuel OSORNO-MARÍN, Edwin Javier QUINTERO-GUTIÉRREZ, Carolina ZAMORANO-MONTAÑEZ
- 10:50 - 11:00** **INTERFERENCE COMPETITION BETWEEN LADYBIRD BEETLE ADULTS (COLEOPTERA: COCCINELLIDAE) ON PRICKLY PEAR CACTI PEST DACTYLOPIUS OPUNTIAE (HEMIPTERA: DACTYLOPIIDAE)**, Mohamed EL AALAOUI, Mohamed SBAGHI
- 11:00 - 11:10** **OPTIMIZATION AND VALIDATION OF MULTI-RESIDUE LC-MS/MS METHOD FOR THE ANALYSIS OF PESTICIDES IN CHESNUT**, Gulden HAZARHUN, Aysegül YILDIRIM KUMRAL
- 11:10 - 11:20** **THE CHEMICAL CONTROL OF BACTERIAL CANCER ON CHERRY**, Cansu OKSEL, Mustafa MİRİK
- 11:20 - 11:30** **PROTIST PATHOGENS OF INDIAN MEAL MOTH Plodia interpunctella (LEPIDOPTERA: PYRALIDAE) IN TURKEY**, Mustafa YAMAN, Tuğba SAGLAM, Ömer ERTÜRK
- 11:30 - 11:45** **DISCUSSION**
- 11:45 - 12:00** **PAUSE**

Working committee

Chairpersons: Dragana SUNJKA

12:00 - 12:10 **EVALUATION OF POPULATION DENSITY OF DIAMOND BACK MOTH, PLUTELLA XYLOSTELLA (L.) (LEPIDOPTERA: YPONOMEUTIDAE) ON CANOLA PLANTS IN HATAY PROVINCE OF TURKEY,** Nihat DEMİREL

12:10 - 12:20 **BIOSTIMULANTS IN HORTICULTURE: HOW DIFFICULT IS IT TO VALUE TECHNO-ECONOMIC COMPROMISES?,** Cécile CABASSON, Nicolas GUIBERT, Maider SAINT JEAN

12:20 - 12:30 **THE INFLUENCE OF POLYOLS USED AS OSMOTIC AGENTS IN OSMOTIC DEHYDRATION PROCESS,** Magdalena CHAŹYŃSKA, Małgorzata NOWACKA

12:30 - 12:40 **EFFICACY OF TWO NATURAL EXTRACTS AND ANTIOXIDANTS IN REDUCING POWDERY MILDEW DISEASE OF BARLEY,** Sherin Ph. MIKHAEL M. MANSOUR, Hoda E.A. IBRAHIM

12:40 - 12:50 **DISCUSSION**

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

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

Working committee

Chairpersons: Sanja LAZIC

15:30 - 15:40 **EFFECT OF BENEFICIAL BACTERIUM BACILLUS SUBTILIS ON THE GREATER WAX MOTH (GALLERIA MELLONELLA) MORTALITY,** Ivana MAJIC, Tena JELIC, Gabriella KANIZAI SARIC, Marin KOVACIC, Zlatko PUSKADIJA, Emilija RASPUDIC, Ankica SARAJLIC

15:40 - 15:50 **BACILLUS AMYLOLIQUEFACIENS I3: AN EFFECTIVE BIOCONTROL AGENT IN THE INDUCTION OF SYSTEMIC RESISTANCE IN ARABIDOPSIS THALIANA,** Ilham BARAKAT, Nouredine CHATAINA, Philippe GRAPPIN, Mohammed EL GUILLI, Brahim EZZAHIRI, Sophie ALIGON, Martine NEVEU, Muriel MARCHI

15:50 - 16:00 **CHEMICAL COMPOSITION AND ANTIBACTERIAL ACTIVITY OF ESSENTIAL OIL OF MINT PLANT AGAINST SEED-BORNE BACTERIAL DISEASE AGENTS,** Merve KARA, Soner SOYLU, Musa TÜRKMEN

16:00 - 16:10 **EXTRACTION METHODS, COMPOSITION AND BIOACTIVE PROPERTIES OF SOME MEDICINAL AND AROMATIC PLANT ESSENTIAL OILS,** Mehmet Musa ÖZCAN, Nurhan USLU

16:10 - 16:20 **THE EFFECT OF EDIBLE COATING BASED ON THE RICE BRAN OIL AND ACETYLATED POTATO STARCH ON QUALITY CHARACTERISTICS OF GRAPE,** Masoud TAGHIZADEH, Azin OMID JEIVAN

16:20 - 16:30 **EFFECT OF A BIOSURFACTANT EXTRACTED FROM CORN STEEP LIQUOR ON THE UPTAKE OF COPPER OXYCHLORIDE BY BOTRYTIS CINEREA CELLS,** Alejandro LÓPEZ-PRIETO, Benita PÉREZ CID, Ana Belén MOLDES, José Manuel CRUZ

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

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

Working committee

Chairpersons: Nouredin DRIOUECH

17:00 - 17:10 **CRYSTALLIZATION BEHAVIOR OF COCOA BUTTER: THE INFLUENCE OF REGIONAL ORIGIN IN COLOMBIA: TUMACO - HUILA - SANTANDER,** M. BIGOT, A. CAMPAIGNOLLE, V. CHARPENTIER, J. FREULARD, A. MESSAGER, Daniel J. E. KALNIN

17:10 - 17:20 **VALORISATION OF CAROB FLOUR (CERATONIA SILIQUA L.) IN THE BISCUITRY AND PASTRY SECTORS,** S. ANGER, A. CECCALDI, M. GIDOIN, L. KIEFFER, Daniel J. KALNIN, Ludovic ANDRES

17:20 - 17:30 **INTRODUCTION AND VALORISATION OF HONEY IN A SEASONAL BEER,** Martin BOULAY, Margaux MALIGE, Juliette OGER, Lisa ROUTHIAU, Ludovic ANDRES

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17:30 - 17:40 **ENHANCEMENT OF OXIDATIVE QUALITY OF HEAT TREATED FERMENTED SAUSAGES BY BARBERRY (BERBERIS VULGARIS L.) EXTRACT**, Hülya Serpil KAVUŞAN, Burcu SARI, Hilal CAN, Fatih Mehmet YILMAZ, Meltem SERDAROĞLU

17:40 - 17:50 **EFFECT OF POTASSIUM SALTS ON ONION PURPLE BLOTCH INCIDENCE AND SOME PHYSIOLOGICAL AND YIELD PARAMETERS IN ONION SEED PLANTS**, Hanan S. SOFY, Hoda M.H. AHMED, Maisa L. ABD-EL-MONEIM, Mohamed HASSAN

17:50 - 18:00 **DISCUSSION**

18:00 - 18:10 **PAUSE**

18:10 - 18:40 **POSTER SESSION**

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

Friday, October 8th, 2021
Conference Hall H (Hotel Termag - Koliba)

ORGANIC AGRICULTURE

- 09:00 - 18:00** - REGISTRATION
15:30 - 18:30 - WORKING SESSIONS

Working committee

Chairperson: Snjezana OLJACA, Nouredin DRIOUECH

- 15:30 - 15:40** **NITROGEN BALANCES OF DIFFERENT ORGANIC AND CONVENTIONAL FARMING SYSTEMS – RESULTS OF A LONG-TERM EXPERIMENT IN SOUTHERN GERMANY**, Thomas MÖSL, Harald SCHMID, Kurt-Jürgen HÜLSBERGEN
- 15:40 - 15:50** **CHEMICAL COMPOSITION OF MEDLAR (MESPILUS GERMANICA) AND WILD SERVICE TREE (SORBUS TORMINALIS) – UNDERUTILIZED EDIBLE FRUITS FROM BOSNIA AND HERZEGOVINA**, Srđan LJUBOJEVIĆ, Ladislav VASILISIN, Goran VUČIĆ, Ana VELEMIR
- 15:50 - 16:00** **OENOLOGICAL CHARACTERISTICS AND VINIFICATION RESULTS OF THE YEAST OF MALAGOUSIA GRAPE ISOLATED IN GREECE**, Aikaterini KARAMPATEA, Argirios TSAKIRIS, Ioannis KOURKOUTAS
- 16:00 - 16:10** **HUMIC ACIDS COMPOSITION OF ARABLE SOD-PODZOLIC SOIL AFTER LONG-TERM APPLICATION OF TRADITIONAL AND UNCONVENTIONAL ORGANIC FERTILIZERS**, Nina E. ZAVYALOVA, Marina T. VASBIEVA
- 16:10 - 16:20** **MYCORRHIZAL INOCULATION ENHANCED TILLERING IN FIELD GROWN WHEAT, NUTRITIONAL ENRICHMENT AND SOIL PROPERTIES**, Muhammad AKBAR, Safeer Akbar CHOHAN, Nasim Ahmad YASIN, Aqeel AHMAD, Waheed AKRAM, Nazir ASLAM, Muhammad Sajjad IQBAL, Tayyaba KHALIL
- 16:20 - 16:30** **CHEMICAL COMPOSITION OF YELLOW GENTIAN ROOT (GENTIANAÆ RADIX) FROM BOSNIA AND HERZEGOVINA**, Srđan LJUBOJEVIĆ, Ladislav VASILISIN, Goran VUČIĆ, Ana VELEMIR
- 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 8th, 2021
Conference Hall E (Hotel Vucko)

ENVIRONMENT PROTECTION AND NATURAL RESOURCES MANAGEMENT

09:00 - 18:00 - REGISTRATION

08:30 - 18:30 - WORKING SESSIONS

Working committee

Chairperson: Anwar HUSSAIN

09:00 - 09:10 **THE IMPACT OF LAND USE AND CLIMATE CHANGE ON EROSION PROCESSES AND THEIR MITIGATION FROM LANDSCAPE PERSPECTIVE**, Bořivoj ŠARAPATKA, Marek BEDNÁŘ

09:10 - 09:20 **THE REMEDIATION POTENTIAL FOR PAHS OF VERBASCUM SINUATUM L. COMBINED WITH AN ENHANCED RHIZOSPHERE LANDSCAPE: A FULL-SCALE MESOCOSM EXPERIMENT**, Alessia POSTIGLIONE, Daniela ZUZOLO, Rosaria SCIARRILLO, Carmine GUARINO

09:20 - 09:30 **PLANT-SOIL-MICROBIOTA COMBINATION FOR THE REMOVAL OF TOTAL PETROLEUM HYDROCARBONS (TPH): AN IN-FIELD EXPERIMENT**, Daniela ZUZOLO, Guarino CARMINE, Maria TARTAGLIA, Sciarrillo ROSARIA

09:30 - 09:40 **EFFECTIVENESS OF DIGESTATE FERTILIZATION ON SOIL MICROBIAL ACTIVITY AND GREENHOUSE GAS EMISSIONS**, Modupe DOYENI, Skaidre SUPRONIENE, Vita TILVIKIENE

09:40 - 09:50 **NUTRIENT USE EFFICIENCY OF CHILIES PLANTS CULTIVATED WITH ACIDIFIED IRRIGATION WATER**, Muneeb HASHMI, Muhammad SHAFIQ, Rashid MEHMOOD

09:50 - 10:00 **UNDERSTANDING THE RELATIONSHIP AMONG GEOMORPHOMETRY, SPECTRAL INDICES, AND SOME SOIL PROPERTIES IN A WATERSHED SCALE**, Turgay DINDAROGLU, Vesna TUNGUZ, Emre BABUR, Mahmoud SELEIMAN, Rana ROY, Elna ZAKHARCHENKO

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

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

Working committee

Chairpersons: Anwar HUSSAIN, Nataša ČEREKOVIĆ

10:30 - 10:40 **TEMPORARY AND PERMANENT WET ZONES IN BOSNIA AND HERZEGOVINA**, Branislav DRAŠKOVIĆ, Aleksandar PONOSOV, Natalia ZHERNAKOVA

10:40 - 10:50 **PROMOTING THE APPLICATION OF SMART TECHNOLOGIES (CLOUD-BASED AND REMOTE SENSING) IN AGRICULTURAL WATER MANAGEMENT IN BOSNIA AND HERZEGOVINA**, Mihajlo MARKOVIĆ, Nataša ČEREKOVIĆ, Đurađ HAJDER, Nery ZAPATA, Teresa A. PAÇO, Ermínio EFISIO RIEZZO, Sabrija ČADRO, Mladen TODOROVIĆ

10:50 - 11:00 **DECISION SUPPORT SYSTEM FOR WASTEWATER AND BIOSOLIDS SAFE REUSE IN AGRICULTURAL APPLICATIONS**, Spyridon S. KYRITSIS, Prodromos H. KOUKOULAKIS, Ioannis K. KALAVROUZIOITIS

11:00 - 11:10 **PERFORMANCE OF A PILOT-SCALE CONSTRUCTED WETLAND SYSTEM AND REUSE OF TREATED WASTEWATER IN AGRICULTURAL IRRIGATION**, Mario LICATA, Salvatore LA BELLA, Teresa TUTTOLOMONDO, Davide FARRUGGIA

11:10 - 11:20 **AGRICULTURAL DROUGHTS AS EXTREMELY LONG PERIODS WITHOUT RAINFALL IN VOJVODINA AUTONOMOUS PROVINCE OF SERBIA**, Bojan SRĐEVIĆ, Zorica SRĐEVIĆ, Pavel BENKA

11:20 - 11:30 **ASSESSMENT OF WATER AND ECONOMIC PRODUCTIVITY IN IRRIGATION MANAGEMENT**, Oner CETIN, Kivanc Hayri DOGANAY, Ali Fuat TARI

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

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

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Working committee

Chairpersons: Anwar HUSSAIN, Nataša ČEREKOVIĆ

12:00 - 12:10 **ETOPHY: WEB PLATFORM FOR MANAGING THE IMPACTS OF PLANT PROTECTION PRODUCTS USED IN AGRICULTURE**, Oussama MGHIRBI, Philippe LE GRUSSE, Chaima GRIMENE, Elisabeth MANDART, Jacques FABRE, Julie CAUBEL, Isabelle NEMBROT, Jean Philippe BOULANGER, Jean-Paul BORD

12:10 - 12:20 **RISK SPATIALIZATION OF AGRICULTURAL PHYTOSANITARY PRACTICES: CASE STUDY IN SOUTH-WEST FRANCE**, Chaima GRIMENE, Oussama MGHIRBI, Philippe LE GRUSSE, Jean-Paul BORD

12:20 - 12:30 **IN VITRO METHANOGENIC FERMENTATION INHIBITED BY DIFFERENT EXTRACTS OF HYPOESTES FORSSKAOLII (VAHL) R. BR. (ACANTHACEAE) LEAVES**, Massimiliano D'AMBOLA, Alessandro VASTOLO, Marcello SCIVICCO, Monica I. CUTRIGNELLI, Lorella SEVERINO, Serena CALABRO

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 **SOIL PROTECTION, AN ISSUE FOR AGRICULTURAL DEVELOPMENT: CASE OF MOROCCO**, Jilali BEN DRISS

15:40 - 15:50 **AN ANALYSIS OF ECOLOGICAL FOOTPRINT IN RURAL URBAN AREAS OF DISTRICT SWAT, KHYBER PAKHTUNKHWA (PAKISTAN)**, Anwar HUSSAIN, Umar HAYAT

15:50 - 16:00 **THE QUALITY PARAMETERS OF RECYCLED PAPER**, Gülnur MERTOĞLU ELMAS, Beyza KARABULUT

16:00 - 16:10 **LABELING OF LOCAL PRODUCTS FOR LOCAL DEVELOPMENT AND PROTECTION OF BIODIVERSITY**, Mustapha OUATMANE, Jilali BENDRISS

16:10 - 16:20 **ENVIRONMENTAL MANAGEMENT OF LIVESTOCK IN BOSNIA AND HERZEGOVINA ON THE EXAMPLE OF ENVIRONMENTAL PERMITS**, Aleksandar ŠOBOT, Diana BILIĆ-ŠOBOT

16:20 - 16:30 **ASH CONTENT OF SOME OAK SPECIES**, Gülnur MERTOĞLU ELMAS, Beyza KARABULUT

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

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

Working committee

Chairpersons: Branislav DRASKOVIC

17:00 - 17:10 **FIBER PROPERTIES OF RUMEX CRISPUS L. ROOT**, Gülnur MERTOĞLU ELMAS

17:10 - 17:20 **INVESTIGATION OF LANDSCAPE CHARACTERISTICS OF DÜZCE PROVINCE, AKÇAĞAKA DISTRICT IN THE SCOPE OF ECOTOURISM AND DEVELOPMENT OF ECOTOURISM RESOURCES**, Gümüş Funda GÖKÇE, Mustafa ÖZBAY, Sinisa BERJAN

17:20 - 17:30 **DENSITY AND HABITAT PREFERENCE OF AN INVASIVE SPECIES (*Diadema setosum*, Leske, 1778) IN THE MEDITERRANEAN SEA**, Mustafa Remzi GÜL, Mehmet AYDIN

17:30 - 17:40 **IMPACT OF AGRICULTURAL RUNOFF OF PHOSPHORUS IN COASTAL WATER QUALITY**, Deb JAISI, Qiang LI, Jessica ANTON, Kristi MINGUS

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)**

XII International Scientific Agriculture Symposium "Agrosym 2021"

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Friday, October 8th, 2021
Conference Hall F (Hotel Vucko)

ANIMAL HUSBANDRY

09:00 - 18:00 - REGISTRATION

08:30 - 18:30 - WORKING SESSIONS

Working committee

Chairperson: Tatjana KRAJISNIK

09:00 - 09:10 **INFLUENCE OF BREED AND SEASON ON GOAT MILK AMINO ACIDS AND FATTY ACIDS**, Evaldas ŠLYŽIUS, Vida JUOŽAITIENĖ, Lina LAUČIENĖ, Rolandas STANKEVIČIUS, Lina ANSKIENĖ, Birutė ŠLYŽIENĖ

09:10 - 09:20 **COMPARISON OF EGGS FROM DIFFERENT EGG PRODUCTION SYSTEMS IN TERMS OF CAMPYLOBACTER**, Ali AYGÜN, Talha DEMİRCİ, Doğan NARİNÇ

09:20 - 09:30 **THE IMPACT OF BREEDING SEASON AND EGG STORAGE PERIOD ON HATCHERY PARAMETERS OF GRAND PARENT STOCK BROILER BREEDER EGGS**, Bilgehan YILMAZ DİKMEN

09:30 - 09:40 **MODELING OF GROWTH IN JAPANESE QUAILS CATEGORIZED BY EGG WEIGHT**, Ali AYGÜN, Doğan NARİNÇ

09:40 - 09:50 **CURRENT SITUATION OF ANATOLIAN BUFFALO HUSBANDRY AND BREEDING POSSIBILITIES IN VAN PROVINCE OF TURKEY**, Turgut AYGÜN

09:50 - 10:00 **EVALUATION OF MILK YIELD AND MILKING CHARACTERISTICS OF DIFFERENT GENOTYPES DURING LACTATION IN ORGANIC FARMS**, Lina ANSKIENĖ, Renata JAPERTIENĖ, Giedrius PALUBINSKAS, Sigitas JAPERTAS

10:00 - 10:15 DISCUSSION

10:15 - 10:30 PAUSE

Working committee

Chairpersons: Bettina FAEHRICH, Lina ANSKIENĖ

10:30 - 10:40 **BEE COLONY SWARMING EVENT DETECTION IN PRECISION BEEKEEPING**, Aleksejs ZACEPINS, Armands KVIESIS, Vitalijs KOMASILOVS

10:40 - 10:50 **NOMADIC ACTIVITIES OF SMALL RUMINANT HUSBANDRY IN MUŞ PROVINCE OF EASTERN ANATOLIA IN TURKEY**, Turgut AYGÜN

10:50 - 11:00 **THE EFFECT OF DIFFERENT PLANT VEGETATION IN FREE-RANGE SYSTEM ON EGGSHELL MICROBIAL LOAD**, Ali AYGÜN, Talha DEMİRCİ, Doğan NARİNÇ

11:00 - 11:10 **EFFECTS OF PHYTOGENIC POLYPHENOLS IN FEED - A REVIEW**, Bettina FAEHRICH

11:10 - 11:20 **EFFECT OF OLIVE LEAVES FEEDING ON PHENOLIC COMPOSITION AND PROTEASE ACTIVITY IN GOAT MILK**, Andrea IANNI, Francesca BENNATO, Camillo MARTINO, Lisa GROTTA, Giuseppe MARTINO

11:20 - 11:30 **CHARACTERIZATION OF THE RUMEN MICROBIOTA IN SAANEN GOAT KIDS FED OLIVE LEAVES**, Francesca BENNATO, Andrea IANNI, Camillo MARTINO, Lisa GROTTA, Giuseppe MARTINO

11:30 - 11:45 DISCUSSION

11:45 - 12:00 PAUSE

Working committee

Chairperson: Tatjana KRAJISNIK

12:00 - 12:10 **OCCUPATIONAL HEALTH AND SAFETY CULTURE IN ANIMAL PRODUCTION IN TURKEY**, Turgut AYGÜN

12:10 - 12:20 **TECHNICAL EFFICIENCY OF THE RIPARIAN BEEKEEPERS OF THE COMPLEX OF PROTECTED AREAS PÔ-NAZINGA-SISSILI IN BURKINA FASO**, Soumaïla SAWADOGO, Omer Souglimpo COMBARY, Alexis KABORE, Fabio BERTI

12:20 - 12:30 **THE DIFFERENTIATION OF BEEKEEPING PRACTICES SUCH AS WITNESSES TO THE EVOLUTION OF THE RELATIONSHIP BETWEEN BEEKEEPING AND AGRICULTURE WITHIN THE TERRITORY AND SYSTEMS OF ACTIVITIES**, Ludovic ANDRES, Michel VAILLANT, Anna CASSOU

12:30 - 12:40 **DISCUSSION**

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

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

Working committee

Chairperson: Tatjana KRAJISNIK

15:30 - 15:40 **COW MILK INSULIN LIKE GROWTH FACTOR-1: RISK OR BENEFIT FOR HUMAN HEALTH?**, Danijela KIROVSKI, Dragan KNEŽEVIĆ, Bojan GOLJIĆ, Dragan KASAGIĆ, Ljubomir JOVANOVIĆ, Dušan BOŠNJAKOVIĆ, Julijana TRIFKOVIĆ, Željko SLADOJEVIĆ

15:40 - 15:50 **THE HEAVY METALS IN THE LIVER OF FATTENING PIGS AND MANGULICA IN THE REGION OF VOJVODINA, SERBIA**, Miroslava POLOVINSKI-HORVATOVIĆ, Ivan RADOVIĆ, Saša KRSTOVIĆ, Igor JAJIĆ, Darko GULJAŠ, Mile MIRKOV

15:50 - 16:00 **EFFECT OF SELENIUM FROM FOOD ON PHEASANT MEAT QUALITY**, Saša OBRADOVIĆ, Raško STEFANOVIĆ, Sinisa BERJAN

16:00 - 16:10 **USING PROBIOTICS IN POULTRY NUTRITION: OPTIMIZING PERFORMANCE AND FEEDING COSTS**, Merve GÜNDÜZ, Serap FENDERYA, Arda SÖZCÜ

16:10 - 16:20 **AVIAN HERPESVIRUSES AND THEIR POTENTIAL IMPACTS ON POULTRY HEALTH**, Mustafa SOGUT, Bilge Kaan TEKELIOGLU

16:20 - 16:30 **THE IMPACT OF ORGANIC PRODUCTION OF GEESSE ON THE ENVIRONMENT THROUGH THE PRISM OF EU LEGISLATION**, Milena MILOJEVIĆ, Goran STANIŠIĆ, Aleksandra MILOŠEVIĆ, Tatjana KRAJIŠNIK

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

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

Working committee

Chairpersons: Diana BILIĆ-ŠOBOT, Aleksandar ŠOBOT

17:00 - 17:10 **INFLUENCE OF BACTERIA BACILLUS AND INACTIVATED YEASTS ON PHYSIOLOGICAL PARAMETERS AND HONEY PRODUCTIVITY OF BEES**, Elina SOKOLOVA, Sergei MAGER, Ekaterina GRIZANOVA, Ivan DUBOVSKY

17:10 - 17:20 **THE HONEY AND ENVIRONMENT**, Diana BILIĆ-ŠOBOT, Aleksandar ŠOBOT

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 8th, 2021
Conference Hall D (Hotel Termag)

RURAL DEVELOPMENT AND AGRO-ECONOMY

09:00 - 18:00 - REGISTRATION

08:30 - 18:30 - WORKING SESSIONS

Working committee

Chairperson: Junaid ALAM MEMON

09:00 - 09:10 **ATTITUDES OF FARMERS FROM THE AREAS WITH NATURAL CONSTRAINTS TOWARD AGRICULTURAL AND RURAL DEVELOPMENT SUPPORT**, Ružica PAPIC, Natalija BOGDANOV

09:10 - 09:20 **AGRICULTURE EXTENSION AND ADVISORY SERVICES IN BURKINA FASO AND NIGER**, Hamid EL BILALI, Lawali DAMBO, Imaël Henri Nestor BASSOLE, Jacques NANEMA

09:20 - 09:30 **CHANGES IN GROCERY PURCHASES IN THE NEW MILLENNIUM: THE EXAMPLE OF THE SOUTH MORAVIAN REGION IN THE CZECH REPUBLIC**, Zdenek SILHAN, Ondrej KONECNY

09:30 - 09:40 **YOUNG FARMERS IN PORTUGAL: ASSESSMENT OF POLICY EFFECTS**, Fátima OLIVEIRA, Pedro REIS, Ana Bela LOPES, M. Leonor da Silva CARVALHO

09:40 - 09:50 **COUNTRY LEVEL ASSESSMENT OF FOOD LOSS AND WASTE IN PAKISTAN**, Junaid ALAM MEMON

09:50 - 10:00 **MONITORING THE CONDITION OF AGRICULTURAL LAND AS A TOOL OF THE PRECISION FARMING SYSTEM**, Anna KAZAK

10:00 - 10:15 DISCUSSION

10:15 - 10:30 PAUSE

Working committee

Chairpersons: Hamid EL BILALI

10:30 - 10:40 **INVOLVEMENT OF FARMERS IN LOCAL PARTNERSHIPS: STUDY OF LOCAL ACTION GROUPS STRUCTURE IN THE CZECH REPUBLIC**, Ondřej KONEČNÝ, Pavla SADLONOVÁ, Zdeněk ŠILHAN, Marie JÍLKOVÁ

10:40 - 10:50 **THE POLICY REFORMS THAT SHAPED CONTEMPORARY RURAL SOCIETY IN GREECE**, Georgia KIPOUROPOULOU, Katerina MELFOU

10:50 - 11:00 **PASTORALISM AND SUSTAINABLE DEVELOPMENT IN THE MEDITERRANEAN REGION**, Hamid EL BILALI, Francesco BOTTALICO, Giovanni OTTOMANO PALMISANO, Gianluigi CARDONE, Antonia ACQUAFREDDA, Roberto CAPONE

11:00 - 11:10 **UNDERSTANDING THE ROLE OF THE CAP IN ACHIEVING SUSTAINABILITY AND RURAL DEVELOPMENT GOALS**, Valeria SODANO, Maria Teresa GORGITANO

11:10 - 11:20 **ANALYZE OF FACTORS AFFECTING MARKETING CHANNEL CHOICE OF SMALLHOLDER FARMERS IN AFGHANISTAN**, Ahmad Khalid SALAH, Hideyuki KANO, Naoyuki YAMAMOTO

11:20 - 11:30 **LIVELIHOODS OF SMALL FARM HOUSEHOLDS IN COVID-19 PANDEMIC: A CASE STUDY IN THE RED RIVER DELTA OF VIETNAM**, Nguyen Thi HAI NINH

11:30 - 11:45 DISCUSSION

11:45 - 12:00 PAUSE

Working committee

Chairperson: Hamid EL BILALI

12:00 - 12:10 **STUDY OF THE TRAJECTORIES OF CHANGES IN BEEKEEPING IN A SMALL REGION OF IN BOSNIA AND HERZEGOVINA**, Vesna MRDALJ, Ludovic ANDRES, Michel VAILLANT, Etienne ESTNER

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12:10 - 12:20 **BETWEEN ENVIRONMENT AND SOCIETY: IS THE KITOB-SHAHRISABZ AGRARIAN SYSTEM ABLE TO COPE WITH POPULATION GROWTH IN A CONTEXT OF UNEQUAL ACCESS TO RESOURCES?**, Ludovic ANDRES, Michel VAILLANT, Anna MORIO

12:20 - 12:30 **CURRENT SITUATION AND TRAINING NEEDS ON HERB SECTOR: EVIDENCE FROM GREECE, MOLDOVA, ARMENIA AND GEORGIA**, Aikaterini PALTAKI, Evropi-Sofia DALAMPIRA, Anastasios LIVADIOTIS, Smaragda NIKOULI, Anastasios MICHAILIDIS

12:30 - 12:40 **DISCUSSION**

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

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

Working committee

Chairperson: Junaid ALAM MEMON

15:30 - 15:40 **FOOD LOSSES AND WASTE DURING THE COVID-19 PANDEMIC AND HOW IT IS CHALLENGING AGRI-FOOD LOGISTICS**, Nouredin DRIOUECH, Erika QUENDLER

15:40 - 15:50 **CONSUMERS' PERSPECTIVES ON ONLINE SHOPPING AND FOOD SAFETY DURING THE COVID-19 PANDEMIC**, Aysun YENER ÖGÜR, Mustafa DİKMEN, Mehmet Emin YARDIMCI

15:50 - 16:00 **IMPACTS OF THE FIRST WAVE OF THE COVID-19 ON THE AGRICULTURAL PRODUCTION IN TURKEY: ASSESSING THE ROLES OF FARMERS DURING THE PANDEMIC**, Celal CEVHER, Hakan ADANACIOĞLU, Nilgün DOĞAN

16:00 - 16:10 **ANALYSIS OF THE PARTICIPATION OF INCENTIVES IN LIVESTOCK IN RELATION TO THE AGRICULTURAL BUDGET OF THE REPUBLIC OF SERBIA**, Nikola STOLIĆ, Bratislav PEŠIĆ, Nebojša ZLATKOVIĆ, Žarko KOPRIVICA

16:10 - 16:20 **ASSESSING THE IMPACTS OF COVID-19 ON AGRICULTURE FROM THE PERSPECTIVE OF AGRICULTURAL ORGANIZATIONS: A CASE STUDY FROM GÜMÜŞHANE, TURKEY**, Nilgün DOĞAN, Hakan ADANACIOĞLU

16:20 - 16:30 **A BIBLIOMETRIC NETWORK ANALYSIS ON AGRICULTURAL BIOECONOMY**, Christina-Ioanna PAPADOPOULOU, Katerina MELFOU, Efstratios LOIZOU, Christos KARELAKIS

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

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

Working committee

Chairpersons: Nebojša NOVKOVIĆ

17:00 - 17:10 **TENDENCIES AND PREDICTION OF PRICES OF INDUSTRIAL CROPS IN SERBIA**, Nebojša NOVKOVIĆ, Beba MUTAVDŽIĆ, Ljiljana DRINIĆ, Snežana JOVANOVIĆ, Dragana TEKIĆ

17:10 - 17:20 **EFFECT OF STATE SUBSIDIES GRANTED TO FARMERS FOR CERTIFIED SEEDS ON WHEAT YIELD IN TURKEY**, Celal CEVHER, Şule COŞKUN CEVHER

17:20 - 17:30 **TENDENCIES AND PREDICTION OF GRAPE PRODUCTION CHARACTERISTICS IN SERBIA**, Nebojša NOVKOVIĆ, Nataša VUKELIĆ, Blagoje PAUNOVIĆ, Armina HUBANA, Ljiljana DRINIĆ

17:30 - 17:40 **EXPLORING MOROCCAN OLIVE OIL CONSUMER ATTITUDE USING JOINT ANALYSIS**, Kaoutar JAMAI, Ali ABIDAR

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)**

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Friday, October 8th, 2021
Conference Hall H (Hotel Termag - Koliba)

FORESTRY AND AGRO-FORESTRY

- 09:00 - 18:00** - REGISTRATION
08:30 - 12:30 - WORKING SESSIONS

Working committee

Chairperson: Srdjan LJUBOJEVIC, Marko GUTALJ

- 09:00 - 09:10** **BALANCING ECONOMY AND ENVIRONMENTAL ISSUES IN PRIVATE FORESTRY IN LATVIA**, Lelde VILKRISTE
- 09:10 - 09:20** **APPLICATION OF UNMANNED AERIAL VEHICLES IN PLANT HEALTH SURVEYS**, Nikola ZORIĆ
- 09:20 - 09:30** **NORTHERN TREELINES AS INDICATORS OF CLIMATE AND LAND USE CHANGES: A LITERATURE REVIEW**, Oddvar SKRE
- 09:30 - 09:40** **DETERMINATION OF SALVIA OFFICINALIS L. VOLATILE CONSTITUENTS BY SPME METHOD**, Musa TÜRKMEN
- 09:40 - 09:50** **ASSESSING POLLINOSIS RISK IN THE VESUVIUS NATIONAL PARK (SOUTHERN ITALY): A NOVEL APPROACH FOR INDEX OF URBAN GREEN ZONES ALLERGENICITY**, Antonello PRIGIONIERO, Daniela ZUZOLO, Rosaria SCIARRILLO, Carmine GUARINO
- 09:50 - 10:00** **LONG-TERM EFFECTS OF OAK DECLINE ON SHRUB INDIVIDUAL'S OCCURRENCES IN AN HUNGARIAN OAK FOREST**, Tamás MISIK, Imre KÁRÁSZ
- 10:00 - 10:15** **DISCUSSION**
- 10:15 - 10:30** **PAUSE**

Working committee

Chairpersons: Marko GUTALJ, Srdjan LJUBOJEVIC

- 10:30 - 10:40** **SUITABILITY OF WOOD OF NATIVE OAK SPECIES (QUERCUS spp.) FROM THE IBERIAN PENINSULA NORTHWEST FOR COOPERAGE**, Ignacio J. DIAZ-MAROTO
- 10:40 - 10:50** **GROWTH OF PEDUNCULATE OAK PROVENANCES ACCORDING TO ALTITUDES AND ECOLOGICAL-VEGETATION REIONIZATION OF THEIR ORIGIN**, Mirzeta MEMIŠEVIĆ HODŽIĆ, Dalibor BALLIAN
- 10:50 - 11:00** **AGROFORESTRY BENEFITS NEAR THREATENED SPECIES, BROWN HARE (LEPUS EUROPAEUS L.)**, Olgirda BELOVA
- 11:00 - 11:10** **CHANGE OF ESSENTIAL OIL RATIO AND COMPONENTS OBTAINED BY DIFFERENT METHODS IN LAUREL AND MYRTLE PLANTS**, Musa TÜRKMEN, Oğuzhan KOÇER
- 11:10 - 11:20** **SOCIO ECONOMIC STATUS & AGROFORESTRY READINESS: A CASE STUDY OF SELECTED COMMUNITIES IN THE OR TAMBO DISTRICT, EASTERN CAPE IN SOUTH AFRICA**, Phokele MAPONYA, Dean OELOFSE, Casper MADAKADZE, Nokwazi MBILI, Zakheleni DUBE, Thabo NKUNA, Meshack MAKHWEDZHANA, Takalani TAHULELA, Kgosi MONGWAKETSI
- 11:20 - 11:30** **CERTIFICATION SYSTEM FOR SUSTAINABLE FOREST MANAGEMENT OF CORK TREE (QUERCUS SUBER L.) FORESTS**, 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)**

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Saturday, October 9th, 2021
EXCURSION

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 10th, 2021

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

Friday, October 8th, 2021

POSTER SESSION

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

PLANT PRODUCTION

Conference Hall A and B (Hotel Termag)

Friday, (October 8th, 2021), 18:00 - 18:30

Working committee

Chairpersons: Novo PRZULJ, Dusan KOVACEVIC, Fokion PAPATHANASIOU

- P 01** EFFECT OF WATER STRESS ON THE BEHAVIOR OF SIX DURUM WHEAT GENOTYPES IN A SEMI-ARID REGION OF WESTERN ALGERIA, Fetati AICHA
- P 02** PHYSICO-CHEMICAL STUDY AND ANTIOXIDANT ACTIVITY OF FIVE ALGERIAN HONEY SAMPLES, Nabila BRAHMI
- P 03** GENETIC STRUCTURE OF BARLEY (*HORDUM VULGARE* L.): ACCESSION COLLECTIONS FROM ALGERIA, Warda TAIBI, Fatima HENKRAR, Sripada MAHABALA UDUPA, Suheil BECHIR SEMIR GAOUAR
- P 04** COMPARATIVE STUDY OF KERNEL TRAITS AMONG THE DIFFERENT WHEAT-ALIEN AMPHIPOIDS IN CONDITIONS OF ABSHERON PENINSULA, Rahim RAHIMOV, Mehradj ABBASOV, Aybeniz ALIYEVA, Sabina MEHDIYEVA
- P 05** BIOSTIMULANTS FOR ENHANCING PLANT ABIOTIC STRESS TOLERANCE, Mirza HASANUZZAMAN
- P 06** INFLUENCE OF DIFFERENT FERTILIZATION MODELS ON THE MORPHOLOGY OF GALA SHNIGA APPLE LEAF (*Malus domestica* L.), Dževad LAVIC
- P 07** THE EFFECTS OF MINERAL FEEDING AND LOCATION ON SEED QUALITY OF SEVERAL SORTS OF FORAGE, Igor ĐURĐIĆ, Vesna MILIĆ, Branka GOVEDARICA, Željko LAKIĆ
- P 08** THE EFFECT OF POLYMER AND LOCATION ON SOME MORPHOLOGICAL CHARACTERISTICS OF POTATO, Vesna MILIĆ, Branka GOVEDARICA, Igor ĐURĐIĆ, Anđelka POPADIĆ, Igor MILUNOVIĆ
- P 09** CHEMICAL COMPOSITION OF THE FRUIT OF AUTOCHTHONOUS CULTIVARS OF APPLE FROM SARAJEVO AREA (BOSNIA AND HERZEGOVINA), Nedim BADŽAK, Zlatka ALIĆ-DŽANOVIĆ, Mirjana RADOVIĆ, Mirko KULINA, Jasmina ALIMAN
- P 10** INFLUENCE OF THE SIZE OF VEGETATION SPACE ON THE QUALITY OF TOMATO SEEDLINGS, Vida TODOROVIĆ, Svjetlana ZELJKOVIĆ, Nikolina ĐEKIĆ, Dragan ŠVRAKA
- P 11** VASE LIFE OF CUT FLOWERS USING DIFFERENT VASE SOLUTION, Svjetlana ZELJKOVIĆ, Milica PAŠALIĆ, Boris PAŠALIĆ, Emina MLADENOVIĆ
- P 12** GENETIC PARAMETERS AND SELECTION IN ELEPHANT GRASS FOR PRODUCTION AND QUALITY OF BIOMASS BY MIXED-MODELS, Rogério FIGUEIREDO DAHER, Raiane MARIANI SANTOS, Ana Késia FÁRIA VIDAL, Wanessa FRANSCESCONI STIDA, Alexandre GOMES DE SOUZA, Rafael SOUZA FREITAS, Maxwell RODRIGUES NASCIMENTO, Josefa GRASIELA SILVA SANTANA, Cleudiane LOPES LEITE, Moisés AMBRÓSIO, Antônio VANDER PEREIRA
- P 13** ENERGY FOR DYNAMIC TEARING OF GYNOPHORS OF BULGARIAN PEANUT VARIETIES, Nayden NAYDENOV, Stoyan ISHPEKOV
- P 14** COMPARATIVE STUDY OF LETTUCE CULTIVARS UNDER OPEN FIELD PRODUCTION, Shaban NIDAL, I. Mitova, M. RIZAKOV
- P 15** PLANT GENETIC RESOURCES IN BULGARIA – CONSERVATION AND UTILIZATION, Katya UZUNDZHALIEVA, Mariya SABEVA, Siyka ANGELOVA
- P 16** EFFECTS OF GAMMA-IRRADIATION ON OXIDATIVE STABILITY AND ANTIOXIDANT ACTIVITY OF WALNUTS, Sabina TANEVA, Dessislava TENEVA, Adriana KAZAKOVA, Iskra TOTZEVA, Zhanina PETKOVA, Mariana NACHEVA, Petko DENEV, Svetlana MOMCHILOVA

- P 17 INFLUENCE OF DIFFERENT ROOTSTOCKS ON THE CONTENT OF BIOLOGICALLY ACTIVE COMPOUNDS IN PLUMS AND PEACHES**, Victoria IVANOVA, Boryana TRUSHEVA, Sava TABAKOV, Antoaneta TRENDAFILOVA
- P 18 INFLUENCE OF INTERCROPPING SWEET SORGHUM WITH CLIMBING BEAN ON FORAGE YIELD AND QUALITY**, Darko UHER, Zlatko SVEČNJAK, Zvonko PACANOSKI, Dubravka DUJMOVIĆ-PURGAR, Martina KOVAČEVIĆ, Ivan HORVATIC
- P 19 EFFECT OF FOLIAR SPRAY OF AMMONIUM NITRATE AND IRRIGATION TIME ON VEGETATIVE GROWTH, FRUIT SET, YIELD AND FRUIT QUALITY OF "EWAIS" MANGO TREES**, M. M. M. ABD EL-MIGEED, E. ABD EL-RAZEK; Hassan A. M. ALI, N. ABDEL-HAMID
- P 20 CO-ADDITION OF POTASSIUM HUMATE AND VINASSE ENHANCES GROWTH AND YIELD IN "WONDERFUL" POMEGRANATE UNDER SANDY SOIL**, Hassan A. M. ALI, Emad ABD EL-RAZEK, Mahmoud M.M. ABD EL-MIGEED, Fatma El-Zahraa M. GOUDA
- P 21 OPTIMISATION OF THE SUBSTRATE FOR THE CULTIVATION OF OYSTER MUSHROOMS (*PLEUROTUS OSTREATUS*) USING COFFEE GROUNDS AND BY-PRODUCT FROM BREWERIES**, M. CRANIER, M. KOCH, E. OGANESSOVA, A. SMITH, T. DE OLIVIERA, Ludovic ANDRES
- P 22 SWEET POTATO ROOT SYSTEM UNDER VARIOUS CULTIVATION TECHNIQUES**, Emanuel JAUFMANN, Kurt-Jürgen HÜLSBERGEN, Harald SCHMID
- P 23 DEVELOPMENT OF A WEB-BASED FARM-NUTRIENT-MANAGEMENT-SYSTEM: REQUIREMENTS AND MODEL STRUCTURE**, Joseph DONAUER, Marco LUTHARDT, Frank LEBKE, Kurt-Jürgen HÜLSBERGEN
- P 24 BREEDING MAIZE FOR ADAPTATION AT A LOW INPUT FARMING SYSTEM**, Chrysanthi PANKOU, Fotakis GEKAS, Fokion PAPATHANASIOU, Foteini PAPADOPOULOU, Athina BIZI, Evaggelia SINAPIDOU, Ioannis TOKATLIDIS
- P 25 MANAGEMENT OF INTRA-CULTIVAR VARIATION IN COTTON**, Chrysanthi PANKOU, Athanasios MAVROMATIS, Aphrodite TSABALLA, Ioannis TOKATLIDIS
- P 26 NITROGEN FERTILIZATION'S EFFECT ON THE QUALITY CHARACTERISTICS OF VARIOUS SORGHUM VARIETIES**, Dimitrios BARTZIALIS, Kyriakos D. GIANNOULIS K.D., Elpiniki SKOUFOGIANNI E., George CHARVALAS, Nicholas G. DANALATOS
- P 27 GRAIN QUALITY OF OPEN-POLLINATED MAIZE LINES AND HYBRIDS UNDER DROUGHT**, Fotis GEKAS, Chrysanthi PANKOU, Fokion PAPATHANASIOU, Foteini PAPADOPOULOU, Iosif SISTANIS, Evaggelia SINAPIDOU, Ioannis TOKATLIDIS
- P 28 SELECTING MAIZE GENOTYPES UNDER TWO INPUT SYSTEMS BASED ON PHYSIOLOGICAL TRAITS AND SEED YIELD**, Iosif SISTANIS, Chrysanthi PANKOU, Fotakis GEKAS, Foteini PAPADOPOULOU, Ioannis PAPADOPOULOS, Ioannis TOKATLIDIS, Fokion PAPATHANASIOU
- P 29 EVALUATION OF GREEK RYE (*SECALE CEREALE L.*) ACCESSIONS**, Iosif SISTANIS, Ioannis MYLONAS, Elisavet NINO, Parthenopi RALLI, Theano LAZARIDOU, Fokion PAPATHANASIOU
- P 30 PHOSPHORUS FERTILIZATION EFFECT ON *VICIA FABAYIELD* AND PROTEIN CONTENT**, Dimitrios BARTZIALIS, Kyriakos D. GIANNOULIS, Elpiniki SKOUFOGIANNI, George CHARVALAS, Nicholas G. DANALATOS
- P 31 COMPARISON OF TWO COMMERCIAL KITS FOR *Zea mays* ROOT DNA EXTRACTION**, Louloudia KOULYMPPOUDI, George KONTOURIS, Pavlina ALEXANDRIDOU, Nikolaos PARISSIS, Chrysa MITAKIDOU, Athanasios ZAMANIS, Evangelos KARAGEORGOS, Evangelos PANTOULIS, Nikolaos STAMATIS, Anastasios TSAKALAKIS, Konstantina CHARALAMPOUS, Dimitris IOANNOU
- P 32 THE EFFECT OF BIOSTIMULANT APPLICATION ON LETTUCE GROWTH PARAMETERS**, Spyridon A. PETROPOULOS, Christina CHASKI
- P 33 RESPONSE OF PUMPKIN GENOTYPES TO DROUGHT STRESS AT GERMINATION STAGE**, Spyridon A. PETROPOULOS, Chrysa FOTI, Ourania PAVLI
- P 34 GERMINATION PROFILING OF PUMPKIN GENOTYPES UNDER SALINITY STRESS**, Spyridon A. PETROPOULOS, Chrysa FOTI, Ourania PAVLI
- P 35 THE EFFECT OF FERTILIZATION REGIME ON *SCOLYMUS HISPANICUS* PLANT GROWTH**, Spyridon A. PETROPOULOS, Nikolaos POLYZOS, Maria COMPOCHOLI

- P 36 SILAGE YIELD AND PROTEIN CONTENT OF FORAGE LEGUMES INTERCROPPING WITH CEREALS IN TWO SPATIAL ARRANGEMENTS**, Konstantinos GENNATOS, Theano B. LAZARIDOU
- P 37 EVALUATION OF GREEK BREAD AND DURUM WHEAT CULTIVARS FOR DROUGHT TOLERANCE USING POLYETHYLENE GLYCOL**, Maria KARAGIANNI, Maria MOSCHOU, Theano B. LAZARIDOU
- P 38 COMPARISON COMPOSITION OF LAVENDER AND LAVANDIN VOLATILES CULTIVATED IN KASHMIR HIMALAYAS WHICH HAVE POTENTIAL TO BE VERSATILE INDUSTRIAL CROPS OF THE REGION**, Sayad Ahmad GANGOO, A. R. MALIK, P. ISHTIAK, A. SINGH
- P 39 EFFECT OF HUMIC ACID AND FULVIC ACID ON THE YIELD AND SUGAR YIELD OF SUGAR BEET**, Alireza GHAEMI, Rabieh JULIDEH
- P 40 GROWTH PARAMETER RESPONSE OF QUINOA TO NITROGEN FERTILIZER UNDER HIGH SALINITY LEVELS**, Asghar RAHIMI, Raheleh AFSHARMANESH, Seyyed Rasoul SAHHAFI, Masoumeh SALEHI
- P 41 COMPARISON OF THE EFFECT OF BIO AND NON-BIO-FERTILIZERS ON YIELD AND ESSENTIAL OIL OF THYMUS VULGARIS L.**, Farideh GOSHASBI, Mostafa HEIDARI, Seyed Kazem SABBAGH, Hassan MAKARIAN, Seyed Mohammad Taghi TABATABAI
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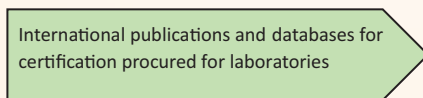
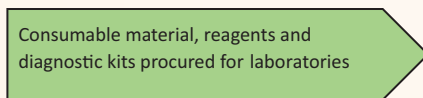
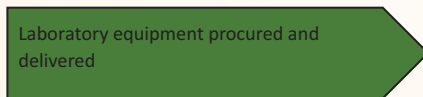
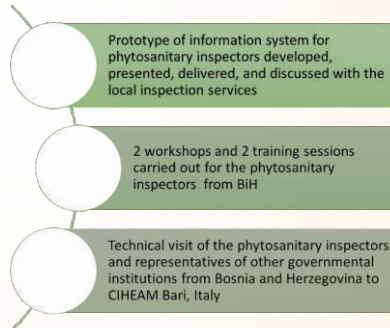


PHYTO-BIH

NEW ACTIONS TO SUPPORT THE PHYTOSANITARY SECTOR IN BOSNIA AND HERZEGOVINA FOR THE HARMONIZATION WITH EU STANDARDS

Project achievements so far

- **R1: The technical-regulatory framework on the control of quarantine organisms harmonized with the EU standard**
- **R2: The Phytosanitary Inspection Service skilled to properly perform its roles in accordance with the *acquis Communautaire***
- **R3: The laboratories responsible for the phytosanitary diagnosis and seed quality aligned to the international standards (EPPO, ISO 17025 and ISTA) in terms of equipment and certified and accredited methods and procedures**
- **R4: The staff of the phytosanitary and seeds quality laboratories enhanced in their skills and competences to use diagnostic methodologies and protocols according to the International Standards**



Reconstruction of laboratory space at the Agricultural Institute in Banja Luka



Climatic chamber for seeds conservation completed at the Federal Agricultural Institute in Sarajevo



Climatic chamber for seeds germination completed at Federal Agro-Mediterranean Institute in Mostar



10 online training courses carried out with participation

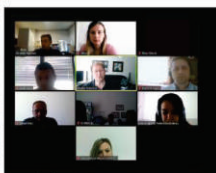
3 in-person training courses at CIHEAM Bari, Italy

116 experts – technical staff from BiH

9 international experts (lecturers)

18 experts – technical staff from BiH

6 experts from Italy (lecturers)



7 new accreditations - alignments to the International Standards

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“SUSTAINABLE ECONOMIC DEVELOPMENT AND ENVIRONMENTAL PROTECTION OF AREAS WITH NATURAL CONSTRAINTS IN BOSNIA AND HERZEGOVINA”

“ANC BiH”

General objective	To identify and promote the Areas with Natural Constraints (ANC) in Bosnia-Herzegovina, as defined by the Regulation (EU 1305/2013), promoting actions based on eco-efficiency, innovation, equal opportunities, and environmental protection through activation, support and consolidation of sustainable rural practices.
Specific objectives	To enhance capacity of BiH institutions in designing sustainable development plans in identified ANCs; and to enable the communities in identified ANCs to benefit from the sustainable development plans.
Funding agency	Ministry of Foreign Affairs and International Cooperation of Italian Government, Italian Agency for Development Cooperation
Implementing agency	<i>Centre International de Hautes Etudes Agronomiques Méditerranéennes</i> – Mediterranean Agronomic Institute of Bari (CIHEAM Bari)
Local counterpart	Ministry of Foreign Trade and Economic Relations (MoFTER)
Total project budget	2,400,000.00 Euros
Type of funding	100% grant of Italian Government
Project duration	36 months (May 2021 – April 2024)

Expected results

- The ANC's formally defined, mapped and assessed over the whole territory of BiH;
- BiH officers acquired legislative, technical and management capacities in accordance with acquis Communautaire (EU Reg. 1305/2013);
- ANC's communities may effectively benefit from site-specific designed and validated strategic plans and measures;
- Local Beneficiaries efficiently run the approved pilot projects.

Involved institutions

- Federal Ministry of Agriculture, Water Management and Forestry
- Ministry of Agriculture, Forestry and Water Management of Republic of Srpska
- Department for Agriculture, Water Management and Forestry of Brčko District
- Research institutions, governmental agencies, and other administrative bodies.



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Side Event 1 (Hotel Termag) - Koliba downfloor

Seminar on Protected Forestry Areas and NATURA 2000

Thursday, 7th of October 2021
Hotel Termag – Koliba conference hall (12:00 - 13:30)

Side Event 2 (Hotel Termag) - Koliba upfloor

AGROSYM B2B (BUSSINES TO BUSSINES) MEETING

Sunday, 10th of October 2021
Hotel Termag – Koliba conference hall (09:00 - 11:00)

Side Event 3 (Hotel Termag) - Koliba downfloor

Education of agricultural practioners

Sunday, 10th of October 2021
Hotel Termag – Koliba conference hall (09:00 - 11:00)

Side Event 4 (Hotel Termag) - Great Hall

Exhibition of local handicrafts and traditional and typical products

Thursday and Friday, 7 - 8th of October 2021
Hotel Termag – Great conference hall (09:00 - 19:00)



Sunday, October 10th, 2021
Conference Hall A (Hotel Termag)

08:30 - 09:00

- Final discussion and conclusions - Closing Ceremony