

ISSN: 2490-3442



UNIVERSITY OF EAST SARAJEVO
FACULTY OF AGRICULTURE



Agrofor



AGROFOR
International Journal

AGROFOR International Journal, Vol. 4, Issue No. 3, 2019

agrofor.ues.rs.ba

AGROFOR International Journal

PUBLISHER

University of East Sarajevo, Faculty of Agriculture
Vuka Karadzica 30, 71123 East Sarajevo, Bosnia and Herzegovina
Telephone/fax: +387 57 340 401; +387 57 342 701
Web: agrofor.ues.rs.ba; Email: agroforjournal@gmail.com

EDITOR-IN-CHIEF

Vesna MILIC (BOSNIA AND HERZEGOVINA)

MANAGING EDITORS

Dusan KOVACEVIC (SERBIA); Sinisa BERJAN (BOSNIA AND HERZEGOVINA); Nouredin DRIOUECH (ITALY)

EDITORIAL BOARD

Dieter TRAUTZ (GERMANY); Hamid El BILALI (ITALY); William H. MEYERS (USA); Milic CUROVIC (MONTENEGRO); Alexey LUKIN (RUSSIA); Machito MIHARA (JAPAN); Abdulvahed KHALEDI DARVISHAN (IRAN); Viorel ION (ROMANIA); Novo PRZULJ (BOSNIA AND HERZEGOVINA); Steve QUARRIE (UNITED KINGDOM); Hiromu OKAZAWA (JAPAN); Snezana JANKOVIC (SERBIA); Naser SABAGHNIA (IRAN); Sasa ORLOVIC (SERBIA); Sanja RADONJIC (MONTENEGRO); Junaid Alam MEMON (PAKISTAN); Vlado KOVACEVIC (CROATIA); Snezana JANKOVIC (SERBIA); Aleksandar SIMIC (SERBIA); Dragan MILATOVIC (SERBIA); Pandi ZDRULI (ITALY); Zoran JOVOVIC (MONTENEGRO); Vojislav TRKULJA (BOSNIA AND HERZEGOVINA); Zoran NJEGOVAN (SERBIA); Adriano CIANI (ITALY); Aleksandra DESPOTOVIC (MONTENEGRO); Tatjana ZDRALIC (BOSNIA AND HERZEGOVINA); Marko GUTALJ (BOSNIA AND HERZEGOVINA); Igor DJURDJIC (BOSNIA AND HERZEGOVINA); Stefan BOJIC (BOSNIA AND HERZEGOVINA); Julijana TRIFKOVIC (BOSNIA AND HERZEGOVINA)

TECHNICAL EDITORS

Milan JUGOVIC (BOSNIA AND HERZEGOVINA)
Luka FILIPOVIC (MONTENEGRO)

Frequency: 3 times per year

Number of copies: 300

ISSN 2490-3434 (Printed)

ISSN 2490-3442 (Online)

CONTENT

DIFFERENTIATION OF MAIZE LINES WITH HIGH CONTENT OF CAROTENOIDS USING PROTEIN AND DNA MARKERS

Larysa PRYSIAZHNIUK, Yurii HONCHAROV, Yuliia SHYTIKOVA, Oksana TOPCHII, Snizhana OTROSHKO..... 5

THE IMPACT OF LIGHT PENETRATION INTO CANOPY AND SEASONALITY ON PHOTOSYNTHETIC INDICES IN APPLE TREE LEAVES

Kristina LAUŽIKĖ, Giedrė SAMUOLIENĖ, Nobertas USELIS..... 18

ABSCISIC ACID AND IRRIGATION LEVELS EFFECTS ON MORPHOLOGICAL CHARACTERISTICS OF STRAWBERRY

Burçak KAPUR, Eser CELIKTOPUZ, Mehmet Ali SARIDAS, Abdul Qaiyom SARWARI, Sevgi Paydaş KARGI..... 25

THE CONTRIBUTION OF MICROFINANCE TO THE RESILIENCE STRATEGIES OF SMALLHOLDER TEA FARMERS IN BURUNDI

Pierre Claver BITAMA, Philippe LEBAILLY, Patrice NDIMANYA, Emery Gaspard SABUHUNGU, Philippe BURNY..... 33

IMPACT OF DROUGHT AND SITE CHARACTERISTICS ON VITALITY AND RADIAL GROWTH OF *CEDRUS ATLANTICA* MANETTI IN THE OUARSENIS MASSIF (ALGERIA)

Mohamed SARMOUM, Rafael NAVARRO-CERRILLO, Frédéric GUIBAL, Fatiha ABDOUN..... 42

GENETIC DIVERSITY STUDIES OF LATVIAN *VACCINIUM MYRTILLUS* L. POPULATIONS FOR *IN SITU* CONSERVATION

Agnese GAILĪTE, Anita GAILE, Dainis RUŅĪS..... 53

INFLUENCE OF INTERCROPPING MAIZE WITH CLIMBING BEAN ON FORAGE YIELD AND QUALITY

Darko UHER, Zlatko SVEČNJAK, Dubravka DUJMOVIĆ-PURGAR, Dario JAREŠ, Ivan HORVATIĆ..... 60

MIGRATION DECISIONS AMONG RURAL HOUSEHOLDS IN RWANDA: WHAT DOES THE PUSH-AND-PULL MODEL REVEAL?

Edouard MUSABANGANJI, Charles RURANGA, Aristide MANIRIHO 68

MODEL STUDY TO INVESTIGATE THE TOXIC INTERACTION BETWEEN GLYPHOSATE AND COPPER SULPHATE ON CHICKEN EMBRYOS

Rita SZABÓ, Péter BUDAI, Éva KORMOS, István BUDA, Adrienn GRÚZ, Géza SZEMERÉDY, József LEHEL, Rita FÁTH..... 76

PESTICIDE RESIDUES IN COW MILK AND DAIRY PRODUCTS FROM THE MAJOR MILK PRODUCING AREA OF SRI LANKA

Jagath JAYASINGHE, Samudra PATHIRANA, Dhammi DILHANI, Senevirathne NAVARATHNA, Manoj SINHAPURA, Chamila JAYASINGHE, Rohana CHANDRAJITH, Upul MARAPANA..... 83

MOLECULAR PHYLOGENY OF *FUSARIUM OXYSPORUM* SPECIES COMPLEX ISOLATED FROM EGGPLANT AND PEPPER IN TURKEY

Hacer Handan ALTINOK Muhammed Bahattin TANYOLAÇ, Duygu ATEŞ, Canan CAN, Hilal ÖZKILINÇ..... 91

CHEMICAL COMPOSITION OF CARDOON (*CYNARA CARDUNCULUS* L.) GROWN IN SOUTH BULGARIA

Violina ANGELOVA, Mariana Perifanova NEMSKA, Galina UZUNOVA, Luzian KRUSTEV 100

EFFECT OF FOLIAR APPLICATION OF SELENIUM ON ITS UPTAKE AND YIELDS IN BASILS

Ivana MEZEYOVÁ, Alžbeta HEGEDŮSOVÁ, Ondrej HEGEDŮS, Ján FARKAŠ, Miroslav ŠLOSÁR, Ján MEZEY 111

STUDY OF THE SURVIVAL OF *BACILLUS CEREUS* IN LOW-ACID CANNED VEGETABLES

Zinaida YEGOROVA, Anastasia NIKITENKO..... 120

EFFECTIVENESS OF COMMERCIAL AGRICULTURAL DEVELOPMENT (YCAD) PROGRAMME AMONG RURAL YOUTH IN EKITI STATE, NIGERIA

Olaide Julius FILUSI, Julius Olatunde AYINDE..... 128

THE FAILURES OF GENETICALLY MODIFIED ORGANISMS (GMOS): RESISTANCE, REGULATION, AND REJECTION

John PAULL 139

EFFECTS OF SHOOT TRIMMING AND ETHEPHON TREATMENTS ON VEGETATIVE CHARACTERISTICS OF ‘USLU’ GRAPEVINE

Önder KAMILOĞLU, A. Aytekin POLAT..... 153

HEMATOLOGICAL AND SERUM BIOCHEMICAL PROFILE IN EAST BALKAN PIGS AT DIFFERENT AGE AND SEASONS

Nadezhda PALOVA, Yordan MARCHEV, Radka NEDEVA, Jivko NAKEV, Dimitrinka KRUSHEVA, Todor SLAVOV, Ivelina NEDEVA, Teodora POPOVA 164

INDEX OF AUTHORS 176

INSTRUCTIONS FOR AUTHORS..... 177