

X INTERNATIONAL SYMPOSIUM ON AGRICULTURAL SCIENCES

# BOOK OF ABSTRACTS



**AGRORES**  
2021

**BOOK OF ABSTRACTS**



**X INTERNATIONAL SYMPOSIUM ON  
AGRICULTURAL SCIENCES**

**27-29, May, 2021  
Trebinje  
Bosnia and Herzegovina**

BOOK OF ABSTRACTS



X International Symposium on Agricultural Sciences "AgroReS 2021"  
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Željko Vaško

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27-29, May, 2021  
Trebinje  
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# **SYMPOSIUM PROGRAM**

## ***SYMPOSIUM PROGRAM***

|   |  |  |
|---|--|--|
|  | <b>Thursday, May 27, 2021</b>  |  |
| <i>Time</i>   | <b>Opening remarks</b>   | <a href="#">Cultural Centre<br/>Trebinje</a> |
| 14:00 – 14:30   |  |  |
|   | Welcome address by: <ul style="list-style-type: none"> <li>- Zlatan Kovačević, Dean of Faculty of Agriculture, University of Banja Luka;</li> <li>- Boris Pašalić, Minister of Agriculture, Forestry and Water Management of the Republic of Srpska;</li> <li>- Mirko Ćurić, Mayer of the City of Trebinje;</li> <li>- Boban Ilić, SWG Secretary General;</li> <li>- Željko Vaško, President of the Organizing Committee.</li> </ul> |  |
|   | <b>Plenary session</b>   | <a href="#">Cultural Centre<br/>Trebinje</a> |
|   | <i>Moderator: Željko Vaško</i>   |  |
| 14:30 – 15:00<br>PL_01  | Aleksandra Martinovska-Stojčeska<br>AGRICULTURAL POLICY IN THE EU APPROXIMATION<br>CONTEXT: STATE OF AFFAIRS IN PRE-ACCESSION<br>COUNTRIES   |  |
| 15:00 – 15:30<br>PL_02  | Ordan Čukaliev<br>ASSESSMENT OF THE AGRI-ENVIRONMENTAL POLICY IN<br>WESTERN BALKANS  |  |
| 15:30 – 16:00<br>PL_03  | Vlado Kovačević<br>REVIEW OF GEOGRAPHICAL INDICATIONS SCHEMES IN<br>SOUTH EAST EUROPE  |  |
| 16:00–16:30   | <b>Discussion</b>  |  |
|   | <b>Social event</b>  | <a href="#">Trebišnjica river</a>            |
| 17:00 – 19:00   | Boating on Trebišnjica river and wine tasting  |  |

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|---|-----------------------------|
|  | <b>Friday, May 28, 2021</b> |
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|   |                                    |                  |
|---|------------------------------------|------------------|
|  | <b>SECTION 1:<br/>CROP SCIENCE</b> | <i>Session 1</i> |
|---|------------------------------------|------------------|

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|-----------------------------|---|--|
|                             | <b>Oral Presentations</b>   | <a href="#">Hotel „Leotar“, Hall A</a><br><a href="#">and Google Meet platform</a> |
|                             | <b><i>Moderator: Mihajlo Marković</i></b>   |  |
| <b>09:00-09:15</b><br>O1_01 | Muftah Krayem<br>STUDY OF THE CHEMICAL COMPOSITION OF TRITICALE TO COMPARE WITH OTHER CEREAL CROPS GENOTYPE   |  |
| <b>09:15-09:30</b><br>O1_02 | Vojin Cvijanović, Gorica Cvijanović, Nenad Đurić, Vojin Đukić, Mladen Petrović, Vesna Stepić, Zlatica Miladinov<br>CRUDE PROTEIN CONTENT IN WHEAT GRAIN DEPENDING ON THE FEEDING METHOD   |  |
| <b>09:30-09:45</b><br>O1_03 | Marija Bajagić, Vojin Đukić, Zlatica Miladinov, Gordana Dozet, Gorica Cvijanović, Jegor Miladinov, Vojin Cvijanović<br>EFFECTS OF FALL AND SPRING PRIMARY TILLAGE ON SOYBEAN YIELD AND 1000-GRAIN WEIGHT IN AGRO ECOLOGICAL CONDITIONS SERBIA     |  |
| <b>09:45-10:00</b><br>O1_04 | Mihajlo Voruna, Ognjen Cvijić, Zorana Đekanović, Duška Delić<br>DETECTION OF <i>GAEUMANNOMYCES TRITICI</i> IN WHEAT   |  |
| <b>10:00-10:15</b><br>O1_05 | Mihajlo Marković, Nataša Čereković, Đurađ Hajder, Milan Šipka, Nery Zapata, Teresa A. Paço, Erminio Efsio Riezzo, Sabrija Čadro, Mladen Todorović<br>PROMOTING SMART AGRICULTURAL WATER MANAGEMENT IN BOSNIA AND HERZEGOVINA “SMARTWATER” PROJECT |  |
| P1_01                       | Marina Crnković, Đorđe Malenčić, Kristina Petrović, Jovana Šućur<br>INFLUENCE OF THE MACROPHOMINA PHASEOLINA (TASSI) GOID. ON SOD ACTIVITY IN FOUR DIFFERENT GENOTYPES OF SOYBEAN SEEDLINGS   |  |
| P1_02                       | Jelena Golijan, Aleksandar Kostić, Biljana Dojčinović, Danijel Milinčić, Slavoljub Lekić<br>DETERMINATION OF P, K AND MG CONTENT IN MAIZE SEED SUBJECTED TO THE ACCELERATING AGEING TEST  |  |

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| P1_03 | Ljubiša Živanović, Jelena Golijan, Dragana Živanović, Jela Ikanović, Ljubica Šarčević-Todosijević<br>EFFECTS OF SEED INOCULATION, NPK FERTILIZATION AND NITROGEN FERTILIZATION ON YIELD COMPONENTS AND BEAN SEED YIELDS    |
| P1_04 | Ljubiša Živanović, Jelena Golijan, Jela Ikanović, Ljubiša Kolarić, Vera Popović, Ljubica Šarčević-Todosijević<br>INFLUENCE OF CULTIVAR, SOIL CONDITIONERS AND NPK FERTILIZERS ON YIELD COMPONENTS AND BEAN GRAIN YIELD     |
| P1_05 | Aleksandar Simić, Marija Čosić, Mirjam Vujadinović – Mandić, Snežana Babić, Đorđe Moravčević, Dragan Stanojević, Stefan Stepić<br>SEASONAL WATER NEEDS OF MEADOWS AND PASTURES IN DIFFERENT REGIONS OF SERBIA              |
| P1_06 | Željko Dolijanović, Svetlana Roljević Nikolić, Nemanja Gršić, Snežana Oljača, Milena Simić, Zoran Jovović<br>EFFECTS OF DIFFERENT GROWING SYSTEMS ON THE GRAIN YIELD OF WINTER WHEAT                                       |
| P1_07 | Dalibor Tomić, Vladeta Stevović, Dragan Đurović, Milomirka Madić, Vesna Đurović, Marjanović Miloš, Đorđe Lazarević<br>APPLICATION OF PRE-SOWING TREATMENTS WITH GIBBERELLIC ACID IN WHITE CLOVER                           |
| P1_08 | Ružica Ždero Pavlović, Bojana Blagojević, Milan Miroslavljević, Boris Popović<br>ASSESSMENT OF DROUGHT STRESS ON BARLEY ( <i>HORDEUM VULGARE</i> L.) SEEDLINGS USING BIOCHEMICAL PARAMETERS                                |
| P1_09 | Lovro Sinkovič, Barbara Pipan, Aleksandra Savić, Mirjana Vasić, Vladimir Meglič<br>GENETIC DIVERSITY OF <i>LATHYRUS SATIVUS</i> L. COLLECTION AND CHARACTERISTICS OF SEEDS GROWN IN SLOVENIA AND SERBIA                    |
| P1_10 | Jovana Žunić, Dijana Mihajlović, Biljana Kelečević, Zlatan Kovačević<br>DETERMINATION OF POTENTIALLY TOXIC ELEMENTS IN COMMON WILD PLANTS USED IN FOLK MEDICINE  |
| P1_11 | Vladimir Filipović, Sara Mikić, Vladan Ugrenović, Tatjana Marković, Vera Popović, Snežana Mrđan, Stefan Gordanić<br>THE INFLUENCE OF BIOFUNGICIDES ON GERMINATION AND PROTECTION OF THE SEEDS <i>FOENICULUM VULGARE</i> L. |
| P1_12 | Milan Biberdžić, Dragana Lalević, Saša Barać, Jelena Stojiljković, Milomirka Madić, Vera Rajčić<br>INFLUENCE OF MINERAL FERTILIZERS AND ZEOLITES APPLICATION ON THE YIELD OF SOME WHEAT VARIETIES                          |

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| P1_15 | Saud Hamidović, Dženita Medenjaković, Teofil Gavrić, Fejzo Bašić, Vera Karličić, Siniša Mitrić, Blazo Lalevic<br>ANTIFUNGAL ACTIVITY OF SODIUM BICARBONATE AND GARLIC AQUEOUS EXTRACT  |
| P1_16 | Sonja Gvozdenc, Ana Marjanović Jeromela, Tijana Zeremski, Nadežda Stojanov, Jelena Ovuka, Sandra Cvejić, Dejan Prvulović<br>BIORATIONAL CO <sub>2</sub> FUMIGATION OF OIL-SEED RAPE: INSECTICIDAL POTENTIAL AND EFFECT ON SEED QUALITY |
| P1_17 | Marina Dervišević, Nikola Đorđević, Isidora Knežević, Snežana Đorđević<br>ANTAGONISTIC ACTIVITY OF BACTERIAL ISOLATES AGAINST <i>CERCOSPORA BETICOLA</i> IN LABORATORY CONDITIONS  |
| P1_18 | Isidora Knežević, Marina Dervišević, Nikola Đorđević, Snežana Đorđević<br>ANTIFUNGAL ACTIVITY OF <i>BACILLUS</i> SP. AGAINST <i>FUSARIUM GRAMINEARUM</i>   |
| P1_19 | Snežana Mladenović Drinić, Jelena Vukadinović, Danijela Ristić, Ana Nikolić, Jelena Srdić, Natalija Kravić, Violeta Anđelković<br>TOCOPHEROLS VARIABILITY IN MAIZE INBRED LINES WITH DIFFERENT COLOR AND KERNEL TYPE                   |
| P1_20 | Sandhya Takooree, Nooreen Mamode Ally, Hudaa Neetoo, Mala Ranghoo-Sanmukhiya, Mira Vojvodić, Aleksandra Bulajić<br>TWO NEW FUNGAL DISEASES OF TOMATO AND POTATO ENDANGERING PRODUCTION IN MAURITIUS                                    |
| P1_21 | Amer Sunulahpašić, Branimir Nježić, Monika Stojanova, Dženita Medenjaković, Berina Imamović, Blazo Lalevic, Saud Hamidović<br>INHIBITION OF <i>BOTRYTIS CINEREA</i> PERS. FR. GROWTH USING ROSEMARY AND LAVENDER ESSENTIAL OILS        |
| P1_22 | Nemanja Gršić, Željko Dolijanović, Đorđe Moravčević, Marija Ćosić, Aleksa Lipovac, Mirjam Vujadinović-Mandić<br>SEASONAL WATER REQUIREMENTS OF MAIZE IN THE REGION OF VOJVODINA  |
| P1_23 | Markola Šaulić, Ivica Đalović, Mostafa Oveisi, Vladan Jovanović, Dragana Božić, Sava Vrbničanin<br>WHICH METHODS ARE THE MOST RELIABLE FOR PREDICT WEED SEED BANK?   |

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| P1_24              | Vojislav Trkulja, Jelena Mihić Salapura, Bojana Ćurković, Bojana Vuković, Gordana Babić, Jovana Prijić, Bogdan Nedić<br>SURVEY ON THE PRESENCE OF <i>RALSTONIA SOLANACEARUM</i> , THE CAUSAL AGENT OF POTATO BROWN ROT IN REPUBLIC OF SRPSKA 2011-2020 |
| <b>10:15-11:15</b> | <b>Discussion of oral and poster presentations</b>   |

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|  | <b>SECTION 2:<br/>HORTICULTURE</b> | <i>Session 2</i> |
|---|------------------------------------|------------------|


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|                             | <b>Oral Presentations</b>   | <a href="#">Hotel „Leotar“</a> , Hall B and <a href="#">Google Meet platform</a> |
|                             | <i>Moderator: Miljan Cvetković</i>  |  |
| <b>09:00-09:15</b><br>O2_01 | Miljan Cvetković, Alisa Hadžiabulić, Silva Grobelnik Mlakar<br>COMPARATIVE ANALYSIS OF UNIVERSITY-BUSINESS COOPERATION IN AGRICULTURE IN THE WESTERN BALKANS AND EU   |  |
| <b>09:15-09:30</b><br>O2_02 | Neva Karatas, Sezai Ercisli<br>FRUIT CHARACTERISTICS OF <i>PYRUS ELAEAGRIFOLIA</i> PALL. GENOTYPES IN EASTERN TURKEY  |  |
| <b>09:30-09:45</b><br>O2_03 | Radoš Zelenbabić, Boris Pašalić, Miljan Cvetković<br>THE INFLUENCE OF REFLECTIVE MATERIALS ON FRUIT CHARACTERISTICS AND RED SKIN COLORATION OF “IDARED” APPLES  |  |
| <b>09:45-10:00</b><br>O2_04 | Ljubica Vavan, Ermin Suljkanović, Miljan Cvetković<br>VEGETATIVE CHARACTERISTICS AND INITIAL FRUIT-BEARING CAPACITY OF PEAR GROWN ON DIFFERENT TRAINING SYSTEMS   |  |
| <b>10:00-10:15</b><br>O2_05 | Halil Ibrahim Sagbas, Gulce Ilhan, Sezai Ercisli<br>SOME IMPORTANT FRUIT CHARACTERISTICS OF DIVERSE <i>ELAEAGNUS ANGUSTIFOLIA</i> L. GENOTYPES FROM CORUH VALLEY IN TURKEY  |  |
| <b>10:15-10:30</b><br>O2_06 | Gulce Ilhan, Ataturk University, Sezai Ercisli<br>SUGAR AND ORGANIC ACIDS IN UNGRAFTED LOQUAT ( <i>ERIOBOTRYA JAPONICA</i> LINDL.) GENOTYPES IN CORUH VALLEY IN TURKEY  |  |
| <b>10:30-10:45</b><br>O2_07 | Muhammed Kupe, Sezai Ercisli<br>BIOCHEMICAL DIFFERENCES BETWEEN CULTIVATED ( <i>VITIS VINIFERA</i> L. SSP. <i>VINIFERA</i> ) AND WILD GRAPEVINES ( <i>VITIS VINIFERA</i> L. SSP. <i>SYLVESTRIA</i> (GMELIN) HEGI) |  |

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| 10:45-11:00<br>O2_08 | Stefan Gordanić, Aleksandar Simić, Dragoja Radanović, Tatjana Marković, Snežana Mrđan, Sandra Vuković, Vladimir Filipović, Sara Mikić<br>MORPHOLOGICAL DEFINITION POPULATIONS OF <i>ALLIUM URSINUM</i> L. FROM THE WESTERN PART OF THE REPUBLIC OF SERBIA |
| 11:00-11:15<br>O2_09 | Radenka Kolarov, Dejan Prvulović, Sonja Gvozdenac<br>ANTIOXIDANT CAPACITY OF WILD-GROWING ORANGE MULLEIN ( <i>VERBASCUM PHLOMOIDES</i> L.)  |
| 11:15-11:30<br>O2_10 | Zorana Đekanović, Mišaela Vakić, Mariana Mihaljica, Duška Delić<br>IN VITRO TRIALS OF ANTIFUNGAL EFFECT USING PYROPHYLLITE  |
| 11:30-11:45<br>O2_11 | Mišaela Vakić, Mirko Jokić, Mariana Radulović, Siniša Mitrić, Duška Delić<br>FORECASTING THE OCCURRENCE OF RASPBERRY GREY MOLD DISEASE ( <i>BOTRYTIS CINEREA</i> PERS.) AND FUNGICIDE EFFICACY  |
| 11:45-12:00<br>O2_12 | Petar Nikolić, Jovana Bila Dubaić<br>FIRST FINDING OF SCULPTURED RESIN BEE ( <i>MEGACHILE SCULPTURALIS</i> SMITH) IN BOSNIA AND HERZEGOVINA   |
| 12:00-12:15<br>O2_13 | Branimir Nježić, Sandra Golubović, Petar Nikolić, Borut Bosančić<br>TROPIC STRUCTURES OF NEMATODES IN RELATION TO VEGETATION TYPE AND LAND USE  |
| P2_01                | Jasmina Aliman, Maja Kazazić, Emina Mehić, Maida Đapo-Lavić, Mirnesa Smajić<br>PHYSICOCHEMICAL AND ANTIOXIDANT PROPERTIES OF THREE STRAWBERRY CULTIVARS AND WILD STRAWBERRY FROM CENTRAL BOSNIA REGION  |
| P2_02                | Svjetlana Zeljković, Tanja Ećim, Jelena Davidović Gidas, Emina Mladenović<br>EFFECTS OF DIFFERENT SUBSTRATES ON GROWTH AND DEVELOPMENT OF GLOBE AMARANTH ( <i>GOMPHRENA GLOBOSA</i> L.)   |
| P2_03                | Milena Lakićević, Milena Maksimović, Branislava Pavlović, Mia Vicković<br>FLORISTIC ELEMENTS IN THE DANUBE PARK (NOVI SAD, SERBIA)  |
| P2_04                | Milena Lakićević, Emina Mladenović, Saša Orlović, Lazar Pavlović, Ksenija Hiel<br>POPLAR TREES IN THE UNIVERSITY PARK IN NOVI SAD (SERBIA)  |
| P2_05                | Dragan Žnidarčić<br>NITROGEN RATES INFLUENCE ON RADICCHIO YIELD AND YIELD COMPONENTS  |



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| P2_06 | Marija Ćosić, Aleksa Lipovac, Mirjam Vujadinović Mandić, Zorica Ranković – Vasić, Ana Vuković Vimić, Zoran Pržić, Dunja Sotonica<br>GRAPEVINE WATER REQUIREMENTS IN DIFFERENT REGIONS OF SERBIA                                   |
| P2_08 | Marija Simonović, Jovana Miletić, Milica Veselinović, Draga Graora<br>DISTRIBUTION OF INVASIVE SPECIES <i>PHYLLOCNISTIS VITEGENELLA</i> CLEMENS (LEPIDOPTERA: GRACILLARIIDAE) ON GRAPEVINE IN SERBIA                              |
| P2_09 | Draga Graora, Marija Simonović, Marina Dervišević, Novica Miletić<br>PRESENCE AND HARMFULNESS OF SAN JOSE SCALE, <i>COMSTOCKASPIS PERNICIOSA</i> (COMSTOCK) ON CHERRY TREES   |
| P2_10 | Marijana Peić Tukuljac, Dejan Prvulović, Sonja Gvozdenac<br>THE INFLUENCE OF EXTRACTION SOLVENT ON ANTIOXIDANT POTENTIAL OF ST. JOHN'S WORT ( <i>HYPERICUM PERFORATUM</i> L.)   |
| P2_11 | Boban Đorđević, Dejan Đurović, Gordan Zec<br>SENSITIVITY OF FLOWER BUDS OF SWEET CHERRY CV. CARMEN ON DIFFERENT ROOTSTOCKS DURING THE ECOLOGICAL DORMANCY   |
| P2_12 | Aleksa Lipovac, Dragan Nikolić, Dejan Đurović, Đordje Boškov, Mirjam Vujadinović-Mandić, Ana Vuković-Vimić, Marija Ćosić<br>IRRIGATION WATER REQUIREMENT OF FRUIT TREES IN THE CENTRAL, WEST AND SOUTH SERBIA ON A DISTRICT SCALE |
| P2_13 | Nikolina Lisov, Ivana Plavšić, Aleksandar Petrović, Ljiljana Gojković Bukarica<br>EFFECTS OF THERMOVINIFICATION AND CARBONIC MACERATION ON POLYPHENOLS EXTRACTION CV. CABERNET SAUVIGNON  |
| P2_14 | Đorđe Vojnović, Žarko Ilin, Boris Adamović, Gabrijela Koprivica<br>EFFECT OF SUBSTRATE TYPE AND VOLUME OF CONTAINER POTS ON THE MORPHOLOGICAL CHARACTERISTICS OF LETTUCE ( <i>LACTUCA SATIVA</i> L.) SEEDLINGS                    |
| P2_15 | Gorica Vuković, Tijana Stojanović, Aleksandra Petrović, Bojan Konstantinović, Nikola Puvača, Dušan Marinković, Bojana Špirović Trifunović, Vojislava Bursić<br>TROPANE ALKALOIDS IN MINT TEAS AT THE SERBIAN MARKET               |
| P2_16 | Bojana Blagojević, Anna Teresa Serra, Maja Milović, Ružica Ždero Pavlović, Tatjana Jurić, Nenad Magazin, Alicja Kucharska, Boris Popović<br><i>PRUNUS</i> FRUITS – POWERFUL FUNCTIONAL FRUITS                                     |

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| P2_17              | Biljana D. Bošković, Miloš Pajić, Milan Dražić, Kosta Gligorević, Mitar Davidović<br>THE INFLUENCE OF THE EXPLOITATION PERIOD OF THE ORCHARD SPRAYER ON THE TECHNICAL CORRECTNESS OF THE MEASURING REGULATORY SYSTEM |
| P2_18              | Borut Bosančić, Ljubica Vavan, Sonja Rašeta, Marina Antić, Petar Nikolić, Branimir Nježić<br>MORPHOLOGICAL VARIATIONS OF SEED CHARACTERISTICS IN STUDIED POPULATIONS OF YELLOW GENTIAN IN THE AREA OF KUPRES HEIGHTS |
| <b>12:15-13:15</b> | <b>Discussion of oral and poster presentations</b>   |

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|  | <b>SECTION 3:<br/>ANIMAL SCIENCES</b> | <i>Session 3</i> |
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|                              | <b>Oral Presentations</b>   | Hotel „Leotar“, Hall A<br>and Google Meet platform |
|                              | <i>Moderator: Nebojša Savić</i>   |  |
| <b>11:30-11:45</b><br>O3_01  | Mirna Gavran, Drago Bešlo, Maja Gregić, Danko Šinka, Zvonimir Steiner, Vesna Gantner<br>PREDICTION OF AMMONIUM EMISSION FROM DAIRY CATTLE USING THE PRECISION FARMING METHODOLOGY                           |  |
| <b>11:45-12:00</b><br>O3_02  | Zvonimir Steiner, Ivan Babić, Vesna Gantner, Stipo Benak, Mario Ronta, Stanko Ivanković<br>THE COST PRICE OF THE INCREMENT OF CALVES FED DAIRY PRONOUNS THAT CONTAIN DIFFERENT LEVELS OF PROTEIN AND ENERGY |  |
| <b>12:00-12:15</b><br>O3_03  | Mirna Gavran, Matko Adrić, Vesna Gantner<br>THE USE OF HORSES IN THE EVENTING – A REVIEW  |  |
| <b>12:15 -12:30</b><br>O3_04 | Biljana Rogić, Sara Popadić, Bojana Rudić, Slađana Preradović, Božo Važić<br>PEDIGREE ANALYSIS OF LIPIZZAN STALLIONS: GENERATION INTERVAL AND INBREEDING  |  |
| P3_01                        | Bratislav Pešić, Nikola Stolić, Nebojša Zlatković<br>DAMAGES TO AGRICULTURAL CROPS CAUSED BY AN INCREASE IN THE NUMBER OF WILD BOARS IN THE HUNTING GROUND "KUTLAVICA"                                      |  |
| P3_02                        | Nebojša Savić, Dragan Mikavica<br>NECESSITY OF ESTABLISHING REPRODUCTIVE CENTERS FOR FISH IN BOSNIA AND HERZEGOVINA   |  |

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| P3_03              | Dragan Mikavica, Nebojša Savić<br>USE OF "SMALL" HYDROACCUMULATION FOR THE PURPOSE OF FISH PRODUCTION   |
| P3_04              | Angeleska Aleksandra, Crceva Nikolovska Radmila, Dimitrieska Stojkovic Elizabeta, Katerina Blagoevska, Risto Uzunov, Biljana Dimzoska Stojanovska<br>MEASUREMENT OF THE 226RA, 232TH AND 40K ACTIVITIES IN CORN IN THE REPUBLIC OF NORTH MACEDONIA AND RESULTING ANNUAL RADIATION DOSE BY INGESTION |
| P3_05              | Radmila Crceva Nikolovska, Aleksandra Angeleska, Zehra Hajrulai Musliu, Riste Uzunov<br>FEEDING INFLUENCE ON THE QUALITY OF SHEEP MEAT: FROM THE FARM TO THE FORK   |
| P3_06              | Bojan Golić, Vesna Kalaba, Tanja Ilić<br>MICROBIOLOGICAL STATUS OF DRINKING WATER ON FARMS IN THE REPUBLIC OF SRPSKA (B&H) IN THE PERIOD 2018-2020 IN RELATION TO THE EXAMINED PARAMETERS   |
| P3_07              | Nebojša Zlatković, Bratislav Pešić, Nikola Stolić<br>INFLUENCE OF MAXIMUM DAILY TEMPERATURE AND TEMPERATURE-HUMIDITY INDEX ON PIG GROWTH IN FATTENING   |
| P3_08              | Vesna Kalaba, Bojan Golić, Tanja Ilić<br>COMPARISON OF THE ANTIBACTERIAL EFFECT OF MANUKA HONEY AND DOMESTIC ACACIA HONEY   |
| P3_09              | Nebojša Savić, Dragan Mikavica<br>EFFECTS OF DIFFERENT LIGHT INTENSITY ON THE GROWTH OF RAINBOW TROUT ( <i>ONCORHYNCHUS MYKISS</i> ) FINGERLINGS  |
| P3_10              | Sergey Semyonov, Aleksandr Aristov<br>EFFECTIVENESS OF A FEED ADDITIVE IN ORGANIC ANIMAL HUSBANDRY  |
| <b>12:30-13:30</b> | <b>Discussion of oral and poster presentations</b>  |

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|  | <b>SECTION 4:<br/>AGRICULTURAL ECONOMICS<br/>AND RURAL DEVELOPMENT</b> | <i>Session 4</i> |
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| <b>Oral Presentations</b>               | <a href="#">Hotel „Leotar“, Hall C</a><br><a href="#">and Google Meet platform</a> |
| <b>Moderator: Gordana Rokvić Knežić</b> |  |

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| <b>09:00-09:15</b><br>O4_01 | Mihajlo Munćan, Jelena Đoković, Tamara Paunović<br>CHANGE OF FAMILY FARM PRODUCTION TYPE IN TERMS OF INCREASING ECONOMIC BUSINESS RESULTS   |
| <b>09:15-09:30</b><br>O4_02 | Ana Vujošević, Đorđe Moravčević, Sandra Vuković<br>POSITION AND PERSPECTIVES OF SUSTAINABLE DEVELOPMENT OF HORTICULTURAL PRODUCTION IN THE REPUBLIC OF SERBIA   |
| <b>09:30-09:45</b><br>O4_03 | Dragan Dokić, Mirna Gavran, Vesna Gantner<br>A COMPARATIVE ANALYSIS OF THE COST MANAGEMENT IN CEREAL PRODUCTION IN CROATIA AND EUROPEAN UNION   |
| <b>09:45-10:00</b><br>O4_04 | Nebojša Novković, Nataša Vukelić, Zorica Sredojević, Snežana Jovanović, Veljko Šarac<br>ANALYSING AND PREDICTION OF CEREALS PRODUCTION CHARACTERISTICS IN VOJVODINA   |
| <b>10:00-10:15</b><br>O4_05 | Nebojša Novković, Beba Mutavdžić, Dragana Tekić, Ljiljana Drinić, Gordana Rokvić<br>ANALYSING AND PREDICTION OF CEREALS PRICES REPUBLIC OF SERBIA   |
| <b>10:15-10:30</b><br>O4_06 | Mladen Petrović, Nikola Ljiljanić, Vojin Cvijanović, Vedran Tomić, Robert Radišić<br>FINANCIAL ASPECTS OF POTATO PRODUCTION ON FARMS IN THE REPUBLIC OF SERBIA  |
| <b>10:30-10:45</b><br>O4_07 | Lana Nastić, Sanjin Ivanović, Marko Jeločnik<br>EVALUATION OF INVESTMENTS IN COW - CALF PRODUCTION IN SERBIA USING MODIFIED INTERNAL RATE OF RETURN APPROACH  |
| <b>10:45-11:00</b><br>O4_08 | Željko Vaško<br>VALUATION OF INVESTMENT OPPORTUNITIES: GOAT FARM VERSUS SHEEP FARM IN THE CONDITIONS OF BOSNIA AND HERZEGOVINA  |
| <b>11:00-11:15</b><br>O4_09 | Marija Nikolić<br>RECONSIDERATION OF COOPERATIVE PRINCIPLES – PILLAR OF DEVELOPMENT OR LIMITATION FACTOR?   |
| <b>11:15-11:30</b><br>O4_10 | Gordana Rokvić Knežić, Adrijan Gunić<br>COOPERATIVE OWNERSHIP AND COOPERATIVE PROPERTY IN AGRICULTURAL SECTOR   |
| <b>11:30-11:45</b><br>O4_11 | Gordana Rokvić Knežić, Jelena Đurić, Ljiljana Drinić<br>AGRITOURISM AS A SPECIFIC FORM OF RURAL TOURISM   |
| <b>11:45-12:00</b><br>O4_12 | Dragan Brenjo, Novo Pržulj, Zlatan Sarić, Radoslav Grujić, Džemil Hajrić<br>DETERMINING THE CRITERIA FOR THE LABEL "MOUNTAIN PRODUCT", IN BOSNIA AND HERZEGOVINA, ON THE EXAMPLE OF THE MOST IMPORTANT INDIGENOUS CHEESES |

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| <b>12:00-12:15</b><br>O4_13 | Vlado Kovačević<br>REVIEW OF WAREHOUSE RECEIPT AS AN INSTRUMENT FOR AGRICULTURAL FINANCING IN SERBIA  |
| <b>12:15-12:30</b><br>O4_14 | Edis Beširović, Johannes Holzner, Dragan Brković<br>ANALYSIS OF THE AGRICULTURAL INVESTMENT MARKET IN WESTERN BALKAN COUNTRIES  |
| P4_01                       | Ankica Kondić-Špika, Ana Marjanović Jeromela, Dragana Miladinović, Tijana Zeremski, Jegor Miladinović<br>THE INSTITUTE OF FIELD AND VEGETABLE CROPS AS A GOOD EXAMPLE FOR TRANSFER OF KNOWLEDGE AND NEW TECHNOLOGIES INTO AGRICULTURAL PRACTICE IN SERBIA |
| P4_02                       | Miroslav Nedeljković<br>FORECASTING OF PLUM PRODUCTION TREND IN REPUBLIC OF SRPSKA  |
| P4_03                       | Aleksandar Ostojić, Nebojša Savić, Nemanja Jalić, Vera Kanlić<br>SUPPLY AND DEMAND OF FISH IN BOSNIA AND HERZEGOVINA AND REPUBLIC OF SRPSKA   |
| P4_04                       | Tamara Stojanović, Gordana Rokvić Knežić<br>FINANCIAL ANALYSIS OF AGRICULTURAL COOPERATIVES IN THE REPUBLIC OF SRPSKA   |
| P4_05                       | Ljiljana Drinić, Gordana Rokvić Knežić, Nataša Đenadija<br>MOTIVATIONAL FACTORS OF FEMALE ENTREPRENEURS   |
| P4_06                       | Dragan Milić, Tihomir Novaković, Grahovac Mila, Dragana Budakov, Jovana Grahovac, Vanja Vlajkov<br>ANALYSIS OF PESTICIDE IMPORTS IN THE REPUBLIC OF SERBIA  |
| <b>12:15-13:15</b>          | <b>Discussion of oral and poster presentations</b>  |

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|  | <b>PANEL:<br/>ICT IN AGRICULTURE</b> | <i>Session 5</i> |
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|   | <b>Oral Discussion</b>  | Hotel „Leotar“, Hall A   |
| <b>16:00–18:00</b>  | <p><b>Moderator: Miljan Cvetković</b><br/><i>University of Banja Luka, Faculty of Agriculture, Banja Luka, BiH</i></p> <p>INFORMATIVE COMMUNICATION TECHNOLOGIES AND AGRICULTURE - HOW MUCH DO WE KNOW, AND HOW MUCH DO WE ACTUALLY APPLY IN REGULAR PRODUCTION?</p> <p>Panelists:</p> <p><b>Prof. Dr. Vesna Maraš, Dean</b><br/><i>University of Donja Gorica, Faculty of Food Technology, Food Safety and Ecology, Podgorica, Montenegro</i></p> <p><b>Prof. Dr. Radovan Stojanović</b><br/><i>University of Montenegro, Podgorica, Montenegro,<br/>Founder and President of the Montenegrin Association for New Technologies (MANT)</i></p> <p><b>Mirko Jokić, BSc Agric.</b><br/><i>Ministry of Agriculture, Forestry and Water Management of the Republic of Srpska, Department for the Provision of Agricultural Extension Services, BiH</i></p> <p><b>Milan Šipka, MA</b><br/><i>University of Banja Luka, Faculty of Agriculture, Banja Luka, BiH</i></p> <p>The panel session is supported by the Erasmus+ project VIRAL</p> |  |
|  |   | <p>With the support of the<br/>Erasmus+ Programme<br/>of the European Union</p>  |

01\_02

## **Crude protein content in wheat grain depending on the feeding method**

Vojin Cvijanovic<sup>1</sup>, Gorica Cvijanovic<sup>2</sup>, Nenad Djuric<sup>3</sup>, Vojin Djukic<sup>4</sup>,  
Mladen Petrovic<sup>1</sup>, Vesna Stepic<sup>3</sup>, Zlatica Miladinov<sup>4</sup>

<sup>1</sup> *Institute for Science Application in Agriculture, Serbia*

<sup>2</sup> *Institute of Information Technologies University Kragujevac, Serbia*

<sup>3</sup> *Megatrend University Belgrade, Faculty of Biofarming Backa Topola, Serbia*

<sup>4</sup> *Institute of Field and Vegetable Crops, Serbia*

*Corresponding author: Vojin Cvijanovic, cvija91@yahoo.com*

### **Abstract**

The aim of this study was to determine the protein content of wheat grain in a sustainable production method. The research was conducted at the Scientific Institute PKB Agroekonomik Padinska Skela (2017-2019) with four varieties of wheat (Ratarica, Pobeda, Nogal and Apache) in densities of 400 and 500 grains/m<sup>2</sup>. The basic fertilization was with 400 kg NPK/ha. Feeding was performed: T1 with 150 kgN/ha; T2 150 kgN/ha+1 foliar treatment with multiple inoculum T3 100 kgN/ha+2 foliar treatments and T4 50 kgN/ha+3 foliar treatments. The multiple preparation (EM Aktiv 6 l/ha) is a large group of effective microorganisms. The average protein content was 13.95% and was statistically significantly dependent on the variety and treatment and their interaction  $p < 0.01$ . Ratarica and Pobeda varieties had the highest protein content. T3 treatment had the greatest impact on protein content in all three years of research, which was environmentally and economically justified.

*Key words:* wheat genotype, supplementation, microbiological preparation, mineral nitrogen, proteins