



# AGRORES

## 2019

### BOOK OF ABSTRACTS



**BOOK OF ABSTRACTS**



**AGRORES**  
**2019**

**VIII INTERNATIONAL SYMPOSIUM  
ON  
AGRICULTURAL SCIENCES**

**16-18 May, 2019  
Trebinje  
Bosnia and Herzegovina**

## BOOK OF ABSTRACTS



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16-18 May, 2019; Trebinje, Bosnia and Herzegovina

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**AGRORES**  
**2019**

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**Faculty of Agriculture**  
**University of Banja Luka**

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**BOOK OF ABSTRACTS**

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# **SYMPOSIUM PROGRAM**

|   |                               |
|---|-------------------------------|
|  | <b>Thursday, May 16, 2019</b> |
|   | Large Hall of HET             |

| <i>Time</i>            | <i>Activities</i>  |
|------------------------|--|
| 09:00 – 15:00          | <b>Registration of participants</b>  |
| 15:00 – 15:45          | <b>Opening ceremony</b>  |
|                        | Welcome address by: <ul style="list-style-type: none"> <li>- Zlatan Kovačević, PhD, Dean of Faculty of Agriculture, University of Banja Luka;</li> <li>- Srđan Rajčević, MSc, Minister for Scientific and Technological Development, Higher Education and Information Society of the Republic of Srpska;</li> <li>- Boris Pašalić, PhD, Minister of Agriculture, Forestry and Water Management of the Republic of Srpska;</li> <li>- Radoslav Gajanin, PhD, Rector of the University of Banja Luka;</li> <li>- Mirko Ćurić, Mayor of the City Trebinje;</li> <li>- Željko Vaško, PhD, President of the Organizing Committee;</li> <li>- Guests.</li> </ul> |
| 15:45 – 16:15          | <b>Welcome cocktail and press conference</b>   |
|                        | <b>Plenary sessions</b>  |
|                        | <i>Working Committee:</i><br><b>Željko Vaško, Stanislav Minta, Mladen Todorović, Sava Vrbičanin</b>  |
| 16:15 – 16:45<br>PL_01 | Mihael J. Toman<br>INTEGRATED FRESHWATER MANAGEMENT FROM AN ECOLOGICAL POINT OF VIEW   |
| 16:45 – 17:15<br>PL_02 | Edi Maletić<br>GRAPEVINE GENETIC RESOURCES IN CROATIA - OLD VARIETIES FOR NEW WINE MARKET  |
| 17:15 – 17:45<br>PL_03 | Daniel Falta, Stanislav Navrátil, Gustav Chládek<br>HEAT STRESS AND OTHER STRESSES INFLUENCING MILK PRODUCTION DURING SUMMER   |
| 17:45 – 18:15          | <b>Discussion</b>  |
| 18:00 – 20:00          | <b>Diner</b>   |
| 20:00 – 22:00          | <b>Visit to the Museum of Herzegovina with a piano concert and a cocktail</b>  |

|   |                             |
|---|-----------------------------|
|  | <b>Friday, May 17, 2019</b> |
|---|-----------------------------|

### PARALEL WORKING SESSIONS

|   |                                  |
|---|----------------------------------|
|  | <b>SECTION:<br/>CROP SCIENCE</b> |
|---|----------------------------------|


|            | <b>Poster Presentations</b>  | Large Hall, Hotel Leotar |
|------------|--|--------------------------|
| 9:00-10:00 | <b>Poster tour in the poster exhibition hall, in the presence of the authors</b>   |                          |
|            | <b>Moderators of poster presentations:</b><br><b><i>Danijela Kondić, Ivica Đalović</i></b>   |                          |
| P1_01      | Štefan Týr, Jakub Neupauer<br><b>EFFECTIVENESS OF WEED CONTROL IN POTATO FIELD</b>   |                          |
| P1_02      | Jelena M. Golijan, Aleksandar Ž. Kostić, Biljana P. Dojčinović,<br>Danijel D. Milinčić, Mirjana B. Pešić, Slavoljub S. Lekić,<br><b>CONTENT OF SELECTED TOXIC ELEMENTS IN ORGANIC AND CONVENTIONAL MAIZE SEED</b>        |                          |
| P1_03      | Milena Simić, Vesna Dragičević, Milan Brankov, Branka Kresović, Miodrag Tolimir<br><b>MAIZE YIELD IN DIFFERENT SYSTEMS OF SOIL TILLAGE AND REGIME OF FERTILIZER APPLICATION</b>  |                          |
| P1_04      | Jelena Golijan, Gorica Vuković, Slavoljub Lekić<br><b>EFFECTS OF PRODUCTION METHODS ON THE MYCOTOXIN CONTENT IN SEEDS OF MAIZE, SPELT WHEAT AND SOYA BEAN</b>  |                          |
| P1_05      | Jelena Golijan, Dušica Jovičić, Slavoljub Lekić<br><b>EFFECTS OF THE PRODUCTION METHODS ON VIGOUR OF SOYBEAN SEED</b>  |                          |
| P1_06      | Dejan Dodig, Vesna Kandić, Miroslav Zorić<br><b>RESPONSE OF TWO-ROW AND SIX-ROW BARLEY TO TERMINAL DROUGHT AND HEAT STRESS</b>   |                          |
| P1_07      | Ivica Đalović, Yinglong Chen, Goran Bekavac<br><b>EFFECTS OF FERTILIZATION ON YIELD AND YIELD COMPONENTS OF MAIZE (<i>ZEA MAYS</i> L.) IN TEMPERATE SEMIARID REGION</b>  |                          |
| P1_08      | Aleksandar Popović, Slaven Prodanović, Natalija Kravić, Jelena Golijan, Mile Sečanski, Danijela Ristić, Vojka Babić<br><b>QUALITATIVE TRAITS OF <i>TOP CROSS</i> HYBRIDS DERIVED FROM WESTERN BALKAN MAIZE LANDRACES</b> |                          |

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| P1_09 | Jelena Golijan, Ljubiša Živanović, Jela Ikanović, Ljubica Šarčević-Todosijević<br>PRODUCTION POTENTIAL OF BUCKWHEAT IN ŠUMADIJA ON BROWN FOREST SOIL TYPE  |
| P1_10 | Željko Lakić, Svetko Vojin, Vera Popović<br>THE AGRONOMIC PROPERTIES OF A NEW VARIETY OF ITALIAN RYEGRASS VUBO   |
| P1_11 | Hamdi Imen, Najar Asma, Ben Ghanem hajer, Varsani Arvind<br>FIRST REPORT OF <i>Barley yellow dwarf virus PAV</i> (BYDV-PAV) IN MAIZE ( <i>Zea mays</i> ) AND TRITICALE ( <i>×Triticosecale Wittmack</i> ) IN TUNISIA |
| P1_12 | Željko Dolijanović, Dušan Kovačević, Snežana Oljača, Milena Simić,<br>Zoran Jovović, Srđan Šeremešić<br>WEEDINESS OF SOYBEAN IN DIFFERENT CROP ROTATION  |
| P1_13 | Dalibor Tomić, Vladeta Stevović, Dragan Đurović, Milomirka Madić, Jasmina Knežević<br>THE GROWTH DYNAMICS OF SOYABEAN CROP DURING THE GROWING PERIOD AND YIELD ON ACID SOIL  |
| P1_14 | Vladeta Stevović, Dalibor Tomić, Dragan Đurović, Milomirka Madić<br>THE GROWTH DYNAMICS OF WHITE LUPIN CROP DURING THE GROWING PERIOD AND YIELD ON ACID SOIL   |
| P1_15 | Vladimir Sabadoš, Vlade Đoković, Dragan Dedić<br>SEED PRODUCTION AND MARKETING IN THE TERRITORY OF THE REPUBLIC OF SERBIA FOR THE PERIOD 2006-2018. YEAR   |
| P1_16 | Vladimir Sabadoš, Dragan Dedić, Vlade Đoković, Danijela Dorotić,<br>POSTCONTROL TESTS AS ONE OF WAYS TO PROMOTE SEED PRODUCTION IN SERBIA IN PERIOD 2006-2018.   |
| P1_17 | Milomirka Madić, Dragan Đurović, Aleksandar Paunović, Desimir Knežević, Dalibor Tomić, Vera Đekić<br>ASSESSMENT OF THE CORRELATION BETWEEN GRAIN YIELD AND YIELD COMPONENTS OF SPRING BARLEY ON ACID SOIL            |
| P1_18 | Đurađ Hajder, Saša Marinković, Danijela Kondić<br>THE OVERWINTERING ABILITY OF RAPESEED ( <i>BRASSICA NAPUS</i> L.) PLANTS IN THE REGION OF BANJA LUKA   |
| P1_19 | Biljana Kelečević, Milan Šipka, Zlatan Kovačević, Siniša Mitrić<br>DISTRIBUTION OF <i>Xanthium</i> SPECIES ON THE TERRITORY OF BOSNIA AND HERZEGOVINA  |

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| P1_20 | Milan Biberdžić, Dragana Lalević, Saša Barać, Danijela Prodanović,<br>Vera Đekić, Jelena Stojiljković<br>INFLUENCE OF SOIL TYPE AND COMPACTION ON<br>YIELD OF SOME VARIETIES OF WINTER WHEAT                            |
| P1_21 | Goran Ostić, Novo Pržulj, Miodrag Dimitrijević, Slavko Radanović, Miroslav Štrbac<br>STRESS AT EARLY VEGETATIVE STAGE AND VIVIPARY<br>IN MAIZE - POTENTIAL INTERDEPENDENCE  |
| P1_22 | Borislav Petković, Ilija Komljenović, Darko Aćimović<br>VARIABILITY OF YIELD NATURAL MEADOW TYPE<br>AGROSTIETUM VULGARIS ON MANJACA   |
| P1_23 | Borislav Petković, Novo Pržulj, Vojo Radić<br>THE INFLUENCE OF EXTREME WEATHER CONDITIONS<br>ON THE PRODUCTIVITY OF ONE YEAR OLD FEED<br>MIXTURES IN THE MOUNTAINOUS REGION OF THE<br>CITY OF BANJA LUKA                |
| P1_24 | Borislav Petković, Ilija Komljenović, Darko Aćimović<br>THE IMPACT OF WEATHER CONDITIONS ON<br>PRODUCTIVITY BREEDING PERENNIAL PLANTS   |
| P1_25 | Jelena Ovuka, Sonja Gvozdenac, Jelena Kešelj, Vladimir Miklič<br>INFLUENCE OF DIFFERENT SUBSTRATE ON<br>SUNFLOWER PARENTS LINE SEED GERMINATION   |
| P1_26 | Snežana Mladenović Drinić, Jelena Mesarević, Violeta Anđelković, Mirjana Srebrić<br>GRAIN CAROTENOID CONTENT VARIABILITY IN<br>MAIZE INBRED LINES   |
| P1_27 | Snežana Tanasković, Miloš Marjanović, Branka Popović,<br>Aleksandar Paunović<br>THE FIRST RECORD OF HARMFULNESS <i>Diabrotica virgifera</i> sp. <i>Virgifera</i> (LeConte, 1868) IN THE RAŠKA DISTRICT, SERBIA          |
| P1_28 | Siniša Dakić, Slobodan Vlajić, Stevan Maširević, Jelica Gvozdanović-Varga, Renata Iličić, Dušanka Bugarski, Vladislav Ognjanov<br>SENSITIVITY OF PHYTOPATHOGENIC BACTERIA TO<br>BACTERICIDES <i>IN VITRO</i> CONDITIONS |
| P1_29 | Štefan Týr and Jakub Nyisztor<br>EFFECTIVENESS OF WEED CONTROL IN SOYBEAN<br>FIELD  |
| P1_30 | Nikola Grujić, Branimir Nježić, Milan Radivojević<br>MONITORING OF POTATO CYST NEMATODES IN<br>SERBIA   |

|                      |  |
|----------------------|--|
| P1_31                | Zoran Bročić, Jelena B. Popović-Djordjević, Aleksandar Ž. Kostić, Radivoje Petronijević and Jasmina Oljača<br>FATTY ACIDS PROFILE OF POTATO TUBERS OF KENNEBEC AND KARLENA VARIETIES FROM SERBIA                             |
| P1_32                | Zoran Jovović, Vera Popović, Željko Dolijanović, Ana Velimirović, Milo Iličković<br>INFLUENCE OF DIFFERENT ORGANIC FERTILIZERS ON THE QUALITY OF LAVENDER ( <i>Lavandula Officinalis</i> CHAIX) SEEDLINGS                    |
|                      | <b>Oral Presentations</b>   Large Hall, Hotel Leotar   |
|                      | <b>Working Committee:</b><br><b><i>Snježana Mladenović Drinić, Novo Pržulj, Vojo Radić</i></b>   |
|                      | <b>Part I</b>  |
| 10:00-10:15<br>O1_01 | Desimir Knežević, Dušan Urošević, Veselinka Zečević, Danica Mićanović,<br>Danijela Kondić, Adriana Radosavac, Sretenka Srdić, Jelica Živić<br>VARIABILITY OF HARVEST INDEX IN WHEAT ( <i>Triticum aestivum</i> L.)           |
| 10:15-10:30<br>O1_02 | Jelena Mesarović, Snežana Mladenović Drinić, Milena Simić, Vesna Dragičević, Milan Brankov, Branka Kresović<br>ALTERATIONS OF CAROTENOIDS IN MAIZE GRAIN UNDER DIFFERENT TILLAGE AND FERTILIZER DOSE                         |
| 10:30-10:45<br>O1_03 | Ivan Kovačević, Đurađ Hajder, Danijela Kondić, Dragan Mandić, Desimir Knežević<br>MORPHOLOGICAL CHARACTERISTICS OF TWO-ROWED BARLEY ( <i>Hordeum sativum</i> ssp. <i>distichum</i> L.) LANDRACES ORIGINATED FROM HERZEGOVINA |
| 10:45-11:00<br>O1_04 | Novo Pržulj, Milan Miroslavljević, Vojislava Momčilović, Zoran Jovović, Dragan Mandić, Miloš Nožinić<br>EFFECT OF CULTIVAR AND YEAR ON FINAL LEAF NUMBER IN WINTER BARLEY ( <i>Hordeum vulgare</i> L.)                       |
| 11:00-11:15<br>O1_05 | Dragan Mandić, Novo Pržulj, Goran Đurašinović, Zoran Jovović<br>VITEZ – A NEW VARIETY OF WINTER MANY-ROWED BARLEY  |
| 11:15-11:30          | <b>Coffee break</b>  |
|                      | <b>Part II</b>   |
| 11:30-11:45<br>O1_06 | Miloš Nožinić, Vesna Bojić, Dragan Romčević, Nemanja Babić, Ivana Petrović<br>RAPESEED OIL AS A BIODEGRADABLE LUBRICANT  |
| 11:45-12:00<br>O1_07 | Igor Macanović, Mariana Radulović, Duška Delić<br>DETECTION OF TURNIP YELLOWS VIRUS IN OILSEED RAPE ( <i>Brassica napus</i> L.) IN REPUBLIC OF SRPSKA  |

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|----------------------|---|
| 12:15-12:30<br>O1_08 | Vojo Radić, Ilija Komljenović<br>POLY-CROSS SELECTION OF RED CLOVER   |
| 12:30-12:45<br>O1_09 | Dragan Brenjo, Džemil Hajrić, Dragan Tomović<br>RESULTS OF MONITORING OF PESTICIDE RESIDUES IN FOOD ON MARKET OF BOSNIA AND HERZEGOVINA IN 2018   |
| 12:45-13:45          | <b>Discussion of oral and poster presentations</b>  |
|                      | <i>Moderators of the discussion on oral presentations:<br/>Snježana Mladenović Drinić, Novo Pržulj, Vojo Radić</i><br><i>Moderators of the discussion on poster presentations:<br/>Danijela Kondić, Ivica Đalović</i> |
| 14:00                | <b>Lunch</b>  |

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| <br><b>AGRORES</b><br>2019 | <b>SECTION:<br/>HORTICULTURE</b> |
|---|----------------------------------|

|            | <b>Poster Presentations</b>  | Large Hall, Hotel Leotar |
|------------|--|--------------------------|
| 9:00-10:00 | <b>Poster tour in the poster exhibition hall, in the presence of the authors</b>   |                          |
|            | <i>Moderator of poster presentations:<br/>Miljan Cvetković, Đorđe Moravčević, Branimir Nježić</i>  |                          |
| P2_01      | Gordana Popara, Nenad Magazin, Biserka Milić, Zoran Keserović, Jelena Kalajdžić<br>PHYSICAL AND CHEMICAL PROPERTIES OF FRUITS OF ČAČANSKA LEPTICA PLUM ( <i>Prunus domestica</i> L.) GRAFTED ON FOUR DIFFERENT ROOTSTOCKS      |                          |
| P2_02      | Jelena Tomić, Franci Štampar, Jerneja Jakopič, Milan Lukić, Žaklina Karaklajić Stajić, Marijana Pešaković, Svetlana M. Paunović<br>PHYTOCHEMICAL ASSESSMENT OF PLUM ( <i>Prunus domestica</i> L.) CULTIVARS SELECTED IN SERBIA |                          |
| P2_03      | Tanja Krmpot, Ljubomir Radoš, Milan Šipka<br>RESEARCH ON THE POPULATION OF WILD STRAWBERRY ( <i>Fragaria vesca</i> L.) IN THE REGION OF BANJA LUKA   |                          |
| P2_04      | Ranko Prenkić, Milena Stojanović<br>BIOLOGICAL AND POMOLOGICAL CHARACTERISTICS OF SWEET CHERRY CULTIVARS ON <i>Prunus mahaleb</i> L. ROOTSTOCK   |                          |



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|-------|---|
| P2_05 | Gordana Šebek, Valentina Pavlova, Tatjana Popović<br>BIOCHEMICAL AND POMOLOGICAL<br>CHARACTERISTICS OF FRUIT OF SOME COMMERCIAL<br>MEDLAR CULTIVARS ( <i>Mespilus germanica L</i> ) GROWN IN<br>BIJELO POLJE  |
| P2_06 | Tanja Petrović, Brankica Starčević, Snežana Stevanović,<br>Dragana Paunović, Maja Kokolj, Viktor Nedović<br>THE EFFECT OF PASSIVE MODIFIED PACKAGING ON<br>THE QUALITY OF RASPBERRY FRUITS  |
| P2_07 | Snežana Stevanović, Tanja Petrović, Tijana Urošević<br>PHYSICOCHEMICAL CHANGES OF APPLE FRUITS<br>DURING STORAGE IN CONTROLLED ATMOSPHERE   |
| P2_08 | Žaklina Karaklajić-Stajić, Jelena Tomić, Marijana Pešaković,<br>Milan Lukić, Svetlana M. Paunović, Boris Rilak<br>EFFECTS OF BIOVERMIX FERTILIZER ON THE<br>PHYTOCHEMICAL SCREENING OF BLACKBERRY<br>ČAČANSKA BESTRNA                                     |
| P2_09 | Svetlana M. Paunović, Mira Milinković, Jelena Tomić, Žaklina<br>Karaklajić-Stajić, Milan Lukić, Marijana Pešaković<br>PHENOLIC COMPOUNDS AND ANTIMICROBIAL ACTIVITY<br>IN BERRY AND LEAF EXTRACTS OF BLACK CURRANT<br>( <i>Ribes nigrum L.</i> ) EXTRACTS |
| P2_10 | Iryna Smetanska, Jasmina Balijagić, Veselinka Zečević, Larisa<br>Rener, Irfan Mujanović, Slađana Savić<br>DETERMINATION THE CONTENT OF CHLOROPHYLL A,<br>CHLOROPHYLL B AND CAROTENOIDS IN DIFFERENT<br>PLANT SPECIES                                      |
| P2_11 | Sanja Anđić, Borut Bosančić, Gordana Đurić, Branimir Nježić<br>EVALUATIONS OF PEAR ( <i>Pyrus communis L.</i> ) CULTIVARS<br>ON SENSITIVITY TO PEAR LEAF BLISTER MITE<br>( <i>Eriophyes pyri</i> )  |
| P2_12 | Biljana Lolić, Biljana Radusin Sopić, Gordana Đurić<br>THE PRESENCE OF <i>Xanthomonas arboricola</i> pv. <i>pruni</i> IN<br>ORCHARDS AND NURSERIES OF THE REPUBLIC OF<br>SRPSKA   |
| P2_13 | Zoran Maličević, Milan Jugović, Siniša Mitrić, Borislav Railić,<br>Dragoljub Mitrović<br>THE INFLUENCE OF THE SPRAYER CONTROL ON THE<br>INCREASE IN THE PRODUCTIVITY OF THE MACHINE-<br>TRACTOR AGGREGATE IN THE PROTECTION OF<br>ORCHARDS                |

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| P2_14 | Zoran Bročić, Mirko Milinković, Ivana Momčilović, Jasmina Oljača, Biljana Veljković, Drago Milošević, Dobrivoj Poštić<br>COMPARISON OF AEROPONICS AND CONVENTIONAL PRODUCTION SYSTEM OF VIRUS-FREE POTATO MINI-TUBERS IN SERBIA                             |
| P2_15 | Lovro Sinkovič, Mojca Škof, Kristina Ugrinović<br>CULTIVATION PERIOD INFLUENCE OF DIFFERENT <i>Lactuca sativa</i> L. AND <i>Valeriana locusta</i> L. CULTIVARS ON COLOUR PARAMETERS AND CHLOROPHYLL CONTENT   |
| P2_16 | Lovro Sinkovič, Mojca Škof, Kristina Ugrinović<br>EFFECT OF NITROGEN FERTILIZER RATES ON PHYSICO-CHEMICAL CHARACTERISTICS OF ONION BULBS ( <i>Allium cepa</i> L. var. <i>cepa</i> )   |
| P2_17 | Vida Todorović, Svjetlana Zeljković, Saša Kovačević, Nikolina Đekić<br>THE EFFECT OF BIOREGULATOR APPLICATION ON SEEDLINGS ON EARLY TOMATO YIELD ( <i>Lycopersicon esculentum</i> Mill.)  |
| P2_18 | Djordje Moravčević, Nenad Pavlović, Jasmina Zdravković, Željko Dolijanović, Marija Ćosić<br>EFFECT OF SOWING TIME ON THE YIELD AND QUALITY OF THE SWEET MAIZE KERNELS   |
| P2_19 | Mehira Perviz<br>OCCURRENCE OF ALTERNARIA LEAF BLIGHT [( <i>Alternaria dauci</i> (Kühn) Groves & Skolko)] OF CARROT IN BOSNIA AND HERZEGOVINA   |
| P2_20 | Zorica Ranković-Vasić, Aleksandar Petrović, Nikolina Lisov, Saša Matijašević, Mirjam Vujadinović Mandić, Ana Vuković, Sara Muždalo, Dragan Nikolić<br>PROPERTIES OF GRAPEVINE HYBRID ‘14362’ OBTAINED FROM CROSSING COMBINATION RED TRAMINER × EARLY MUSCAT |
| P2_21 | Nebojša Marković, Zoran Pržić<br>VARIATION OF CLUSTERS AND BERRY STRUCTURAL INDICATORS OF CABERNET SAUVIGNON AND SAUVIGNON BLANC CV. ( <i>Vitis vinifera</i> L.) UNDER THE INFLUENCE OF DEFOLIATION AND HARVEST TIME  |
| P2_22 | Dushko Nedelkovski, Klime Beleski, Venelin Roychev, Goran Milanov<br>POTENTIAL WINTER BUDS FERTILITY OF THE VINE VARIETY REBO ( <i>Vitis vinifera</i> L.)   |
| P2_23 | Dushko Nedelkovski, Klime Beleski, Goran Milanov, Viktor Gjamovski, Biljana Korunovska<br>IMPROVING THE FRUIT QUALITY OF CRIMSON SEEDLESS ( <i>Vitis vinifera</i> L.) USING VINE TRUNK GIRDLING AS AN AGROTECHNICAL TOOL                                    |

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| P2_24 | Tatjana Jovanović-Cvetković, Dragutin Mijatović, Rada Grbić, Alen Predić, Elma Redžić<br>GRAPE QUALITY OF THE VARIETY CABERNET SAUVIGNON ( <i>Vitis vinifera</i> L.) GROWN IN THE BANJA LUKA REGION   |
| P2_25 | Tijana Banjanin, Nikolina Lisov, Aleksandar Petrović, Zorica Ranković-Vasić, Milenko Blesić<br>THE QUALITY OF GRAPE AND WINE OF MERLOT AND BLATINA VARIETIES IN THE AGROECOLOGICAL CONDITIONS OF THE TREBINJE VINEYARD  |
| P2_26 | Ivana Radojević, Miloš Ristić, Darko Jakšić, Dragan Nikolić, Zorica Ranković-Vasić, Tatjana Jovanović Cvetković, Ivana Mošić<br>AGRO-BIOLOGICAL CHARACTERISTICS OF CLONE VARIETY OF CABERNET SAUVIGNON 169  |
| P2_27 | Dušanka A. Popović, Danijel D. Milinčić, Tamara B. Grahovac, Marija M. Bačević Marinković, Miomir Nikšić, Ninoslav Nikićević, Anita Klaus<br>THE TOTAL PHENOLIC CONTENT OF GRAPE BRANDY AND WINE DISTILLATE ENRICHED WITH CHAGA MUSHROOM ( <i>Inonotus obliquus</i> ) |
| P2_28 | Vojislav Trkulja, Zorana Miladinović, Nina Čavić<br>OCCURRENCE, DISTRIBUTION AND HARMFULNESS OF <i>Xylella fastidiosa</i> (Wells <i>et al.</i> ) - CAUSED OF PIERCE'S DISEASE OF GRAPEVINE IN EUROPE  |
| P2_29 | Ana Anđelković, Milica Živković, Slađana Popović, Dušanka Cvijanović, Dragana Marisavljević, Danijela Pavlović, Snežana Radulović<br>ORNAMENTAL VINE <i>Parthenocissus quinquefolia</i> (L.) PLANCH. 1887 AS AN INVASIVE SPECIES IN SERBIA                            |
| P2_30 | Boris Dorbić, Tea Zemunović, Emilija Friganović, Elma Temim, Željko Španjol, Katica Arar<br>ATTITUDES AND PERCEPTIONS OF THE KNIN-BASED SECONDARY SCHOOL PUPILS CONCERNING THE GROWING AND USE OF INDOOR PLANTS   |
| P2_31 | Andela Vranic, Ksenija Hiel<br>DECORATIVE PLANTS ON THE EXAMPLE OF A FLAT GREEN ROOF (CASE STUDY NOVI SAD)  |
| P2_32 | Jasmina Balijagić, Aleksandra Despotović, Veselinka Zečević, Ranko Prenkić, Irfan Mujanović, Ajsela Spahić<br>GERMINATION OF SEEDS OF CALENDULA ( <i>Calendula officinalis</i> L.) IN ECOLOGICAL CONDITIONS OF POLIMLJE, MONTENEGRO                                   |

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| P2_33                | Svjetlana Zeljković, Jelena Davidović Gidas, Vida Todorović, Milica Pašalić<br>GERMINATION OF FLORAL SPECIES DEPENDING ON THE APPLIED BIOSTIMULANT   |
| P2_34                | Jelena Davidović Gidas, Svjetlana Zeljković, Gordana Đurić<br>EFFECT OF DIFFERENT BAP CONCENTRATIONS ON MULTIPLICATION OF <i>Lavandula angustifolia</i> Mill. EXPLANTS   |
|                      | <b>Oral Presentations</b> Large Hall, HET  |
|                      | <b>Working Committee:</b><br><i>Klime Beleski, Sanja Radonjić, Dragan Nikolić</i>  |
|                      | <b>Part I</b>  |
| 10:00-10:15<br>O2_01 | Ivan Glišić, Tomo Milošević, Gorica Paunović, Aleksandra Korićanac, Radmila Ilić<br>CHARACTERISTICS OF NEWLY-BRED DOMESTIC AND INTRODUCED APRICOT CULTIVARS ( <i>P. armeniaca</i> L.) GROWN IN THE REGION OF ČAČAK |
| 10:15-10:30<br>O2_02 | Miljan Cvetković, Nikola Mičić, Velibor Trifković, Aleksandar Životić<br>RASPBERRY PRODUCTION IN BOSNIA AND HERZEGOVINA – CHARACTERISTICS AND CHALLENGES   |
| 10:30-10:45<br>O2_03 | Zlatan Ristić, Sanda Stanivuković, Boris Pašalić, Gordana Đurić<br>THE EFFECT OF HYDROCOOLING TREATMENT OF SWEET CHERRY ON HARDNESS DURING STORAGE   |
| 10:45-11:00<br>O2_04 | T. Karadeniz, T. Bak, L. Kirca, M. İşler<br>EFFECTS OF OLIVE OIL APPLICATION ON MATURITY IN FIG  |
| 11:00-11:15<br>O2_05 | Mladen Kalajdžić, Dragoslav Ivanišević, Predrag Božović, Cassandra Collins<br>DIFFERENCES IN SOME CHARACTERISTICS BETWEEN PRIMARY (N+2) AND SECONDARY (N+3) SHOOTS OF PROBUS ( <i>Vitis vinifera</i> L.)           |
| 11:15-11:30          | <b>Coffee break</b>  |
|                      | <b>Part II</b>   |
| 11:30-11:45<br>O2_06 | Sanja Radonjić, Snježana Hrnčić, Ilma Kalač<br>TWO YEARS MONITORING OF SPOTTED WING DROSOPHILA - <i>Drosophila suzukii</i> IN NORTHERN MONTENEGRO  |
| 11:45-12:00<br>O2_07 | Branimir Nježić, Petar Nikolić<br>PROBLEM IN MANAGEMENT OF THE NORTHERN ROOT-KNOT NEMATODE - <i>Meloidogyne hapla</i>  |

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| 12:15-12:30<br>O2_08 | Turan Karadeniz, F.E.Tekintaş, S.M.Şen, E.Güler<br>PRIVATE AND BEAUTIFUL FRUIT OF OUR COUNTRY:<br>CRAMP BARK ( <i>Viburnum opulus</i> L.)  |
|                      | <b>Discussion of oral and poster presentations</b>   |
|                      | <i>Moderators of the discussion on oral presentations:<br/>Klime Beleski, Sanja Radonjić, Dragan Nikolić<br/>Moderators of the discussion on poster presentations:<br/>Miljan Cvetković, Đorđe Moravčević, Branimir Nježić</i> |
| 14:00                | <b>Lunch</b>   |

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|  | <b>SECTION:<br/>ANIMAL SCIENCES</b> |
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|            | <b>Poster Presentations</b>  | Small hall, Hotel Leotar |
| 9:00-10:00 | <b>Poster tour in the poster exhibition hall, in the presence of the authors</b>   |                          |
|            | <i>Moderators of poster presentations:<br/>Božo Važić, Marinko Vekić</i>   |                          |
| P3_01      | Miloš Ž. Petrović, Zoran Ž. Ilić, Radojica Đoković, Marko Cincović, Miodrag Radinović, Branislava Belić, Milun D. Petrović<br>RELATIONSHIP BETWEEN THE METABOLIC STATUS AND THE REPRODUCTIVE EFFICIENCY OF DAIRY COWS IN THE TRANSITION PERIOD |                          |
| P3_02      | Biljana Veljković, Ranko Koprivica, Dušan Radivojević, Zoran Mileusnić, Aleksandar Kuč<br>TECHNOLOGICAL PROCESS OF MILKING AND QUALITY OF MILK ON A COMMERCIAL FARM  |                          |
| P3_03      | Dragan Dokić, Maja Gregić, Vesna Gantner<br>DETERMINATION OF THE RELATIVE ADVANTAGES IN THE CATTLE PRODUCTION OF MILK AND MEAT BY COMPARATIVE ANALYSIS OF PRODUCTION IN OSIJEK-BARANJA COUNTY AND KRAPINA-ZAGORJE COUNTY                       |                          |
| P3_04      | Đorđe Savić, Stoja Jotanović, Miroslav Borojević, Marinko Vekić, Zora Čolović-Šarić<br>CHEMICAL COMPOSITION OF MILK AS AN INDICATOR OF NUTRITIONAL STATE OF COWS   |                          |
| P3_05      | Milenko Šarić, Mišo Vejin, Zora Čolović-Šarić, Dragana Rujević<br>INFLUENCE OF MASTITIS ON REPRODUCTIVE PARAMETERS IN HOLSTEIN-FREISIAN COWS   |                          |

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| P3_06                | Dragana Rujevac, Milenko Šarić, Zora Čolović-Šarić<br>THE MICROBIOLOGICAL STATUS OF<br>AUTOCHTHONOUS DAIRY PRODUCTS  |
| P3_07                | Maja Gregić, Dragan Dokić, Tina Bobić, Vesna Gantner<br>GENOMIC SELECTION IN HORSE BREEDING  |
| P3_08                | Marinko Vekić, Živko Klincov, Stoja Jotanović, Đorđe Savić<br>BASIC PRODUCTION PARAMETERS OF BROILER FARMS<br>IN BANJA LUKA REGION   |
| P3_09                | Stoja Jotanović, Stojan Marinković, Đorđe Savić, Ivan Stančić,<br>Marinko Vekić<br>SEASONAL CHANGES IN BOAR EJACULATE QUALITY<br>PARAMETERS  |
| P3_10                | Goran Marković, Milomirka Madić<br>USE OF SOME CEREALS FOR CARP ( <i>Cyprinus carpio</i> L.)<br>NUTRITION  |
| P3_11                | Nebojša Savić, Jerko Pavličević, Branko Glamuzina<br>THE EFFECTS OF RATION SIZE ON CONDITION FACTOR<br>AND LENGTH-WEIGHT RELATIONSHIP OF THE BROWN<br>TROUT ( <i>Salmo trutta m. Fario</i> ) |
| P3_12                | Dragan Mikavica, Nebojša Savić<br>PREPARATION OF EXPERT STUDIES ON THE DAMAGE<br>CAUSED TO THE FISH FUND   |
| P3_13                | Brankica Kartalović, Željko Mihaljev, Jelena Babić, Suzana<br>Vidaković, Jelena Petrović, Nikolina Milošević<br>HEXACHLOROBENZENE IN SMOKED SAUSAGE, YES OR<br>NO?                           |
| P3_14                | Jelena Nikitović, Bogoljub Novaković, Gordana Đurić<br>PHENOTYPIC CHARACTERIZATION OF THE BOSNIAN<br>BROKEN-HAIRED HOUND – BARAK ON THE TERRITORY<br>OF BOSNIA AND HERZEGOVINA               |
| P3_15                | Stoja Jotanović, Milorad Sarajlić, Nenad Stojanović, Ivan<br>Stančić, Đorđe Savić, Marinko Vekić<br>INFLUENCE OF TAKING FREQUENCY ON BOAR<br>EJACULATE QUALITY PARAMETERS                    |
|                      | <b>Oral Presentations</b>  |
|                      | Small hall, Hotel Leotar   |
|                      | <b>Working Committee:</b><br><b>Daniel Falta, Milanka Drinić, Božidarka Marković</b>   |
|                      | <b>Part I</b>  |
| 10:00-10:15<br>O3_01 | Božidarka Marković, Milan Marković, Dušica Radonjić<br>THE CURRENT STATUS OF TRANSHUMANCE<br>LIVESTOCK FARMING IN MONTENEGRO   |

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| 10:15-10:30<br>O3_02 | Vesna Gantner, Mirna Gavran, Dragan Dokić, Božo Važić, Maja Gregić, Tina Bobić<br>THE EFFECT OF BREEDING REGION ON DIFFERENCES IN PERSISTENCY OF HEAT STRESS EFFECT IN FIRST PARITY SIMMENTALS          |
| 10:30-10:45<br>O3_03 | Božo Važić, Sara Popadić, Biljana Rogić, Vesna Gantner<br>GOAT FARMING: STAGNATION AND DEVELOPMENT ON THE TERRITORY OF BOSNIA AND HERZEGOVINA   |
| 10:45-11:00          | <b>Coffee break</b>   |
|                      | <b>Part II</b>  |
| 11:00-11:15<br>O3_04 | Sara Popadić, Biljana Rogić, Božo Važić<br>THE AVERAGE RELATEDNESS COEFFICIENT IN LIPIZZAN HORSE FROM STATE-OWNED STUD VUČIJAK  |
| 11:15-11:30<br>O3_05 | Milanka Drinić, Vojo Radić, Aleksandar Kralj, Zdravko Marković, Mladen Radinović<br>THE PRESENCE OF HEAVY METALS, CD AND PB IN THE FODDER IN THE AREA OF BANJA LUKA                                     |
| 11:30-11:45<br>O3_06 | Mirna Gavran, Maja Gregić, Zrinka Tolušić, Vesna Gantner<br>THE FLUCTUATION IN WILD BOAR POPULATION IN HUNTING AREA IN EASTERN CROATIA  |
| 11:45-12:45          | <b>Discussion of oral and poster presentations</b>  |
|                      | <i>Moderators of the discussion on oral presentations:<br/>Daniel Falta, Milanka Drinić, Božidarka Marković<br/>Moderators of the discussion on poster presentations:<br/>Božo Važić, Marinko Vekić</i> |
| 14:00                | <b>Lunch</b>  |



**SECTION:  
AGRO-ECONOMY AND RURAL DEVELOPMENT**

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|            | <b>Poster Presentations</b>   | Small hall, HET |
| 9:00-10:00 | <b>Poster tour in the poster exhibition hall, in the presence of the authors</b>  |                 |
|            | <i>Moderators of poster presentations:<br/>Željko Vaško, Dragan Brković</i>   |                 |
| P4_01      | Jelena Stanojević, Bojan Krstić<br>STRUCTURAL CHANGES IN AGRICULTURE:<br>IMPLICATIONS FOR THE ECONOMY OF THE REPUBLIC OF SERBIA |                 |

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| P4_02 | Sreten Jelić, Tatjana Jovanović, Olga Gavrić<br>HOUSEHOLDS AS MAIN FACTOR OF RURAL AND SUSTAINABLE DEVELOPMENT IN THE REPUBLIC OF SERBIA                                      |
| P4_03 | Petra Nikić Nauth, Gordana Rokvić, Željko Vaško, Tihomir Predić<br>CRITERIA FOR THE DELINEATION OF AREAS WITH NATURAL CONSTRAINTS IN THE EUROPEAN UNION AND REPUBLIKA SRPSKA  |
| P4_04 | Grujica Vico, Zoran Rajić, Mile Peshevski, Radomir Bodiroga<br>MULTI CRITERIA DECISION MAKING IN AGRICULTURE – A REVIEW OF USE IN BALKAN COUNTRIES                            |
| P4_05 | Saïda Salah Mlaouhi, Saïf Nasri, Lassaâd Albouchi<br>ANALYSIS OF CLIMATE CHANGE IMPACT ON PRODUCTION SYSTEMS IN THE REGION OF BIZERTE (TUNISIA) USING A BIO-ECONOMIC APPROACH |
| P4_06 | Ljiljana Drinić, Gordana Rokvić, Aleksandar Ostojić, Branka Čobanović<br>WOMEN ENTREPRENEURSHIP DEVELOPMENT IN AGRICULTURE  |
| P4_07 | Milan R. Milanović, Simo Stevanović<br>OPPORTUNITY COST OF SERBIAN AGRICULTURAL EXPORTS   |
| P4_08 | Mihajlo Munćan, Jelena Đoković, Tamara Paunović<br>COMPETITIVENESS OF MAIZE AND SUNFLOWER PRODUCTION IN THE CROP ROTATION OF FAMILY FARMS ORIENTED TOWARDS CROP PRODUCTION    |
| P4_09 | Miroslav Nedeljković, Aleksandar Maksimović<br>ANALYSIS AND PREDICTION OF RAPESEED PRODUCTION INDICATORS IN THE REPUBLIC OF SRPSKA  |
| P4_10 | Aleksandar Ostojić, Nebojša Savić, Jerko Pavličević, Željko Vaško<br>THE RELATIONSHIP BETWEEN IMPORT OF FEED FOR SALMONIDS AND EXPORT OF TROUT FROM BIH                       |
| P4_11 | Tamara Stojanović<br>COMPARATIVE FINANCIAL ANALYSIS OF CROP, LIVESTOCK AND MIXED AGRICULTURAL PRODUCERS' PROFITABILITY IN THE REPUBLIC OF SRPSKA (BOSNIA AND HERZEGOVINA)     |
| P4_12 | Edyta Brzęczek<br>EIT FOOD ACTIVITY AS AN EXAMPLE OF SUPPORT FOR INNOVATION IN THE AGRI-FOOD SECTOR   |
| P4_13 | Krzysztof Frąsiak<br>THE PROFITABILITY OF ENERGY PRODUCTION FROM THE CULTIVATION OF ENERGY CROPS  |
| P4_14 | Milena Świątek<br>GLOBAL MARKET TRENDS IN ORGANIC FARMING   |



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| P4_15                | Nataša Tomić, Nemanja Jalić, Nikola Bulović<br>CONSUMER HABITS AND OPINIONS TOWARD ORGANIC PRODUCTS IN BANJA LUKA  |
| P4_16                | Bojan Dimitrijević, Jelena Golijan, Slavoljub Lekić, Nada Lakić, Branka Bulatović<br>THE IMPACT OF CERTAIN DEMOGRAPHIC FACTORS ON CONSUMER ATTITUDES TOWARD ORGANIC AGRICULTURAL AND FOOD PRODUCTS IN THE REPUBLIC OF SERBIA |
| P4_17                | Gordana Rokvić, Sandra Rover<br>ANALYSIS OF RURAL TOURISM MANAGEMENT, AN INTEGRATED AND SUSTAINABLE APPROACH   |
| P4_18                | Jovana Knežević, Tamara Dojčinović<br>ANALYSIS OF THE POTENTIAL FOR AGRI-TOURISM DEVELOPMENT IN LAKTASI MUNICIPALITY   |
|                      | <b>Oral Presentations</b> Small hall, HET  |
|                      | <i>Working Committee:</i><br><i>Vesna Mrdalj, Vlado Kovačević, Nebojša Novković</i>  |
|                      | <b>Part I</b>  |
| 10:00-10:15<br>O4_01 | Dori Pavloska Gjorgjieska, Boban Ilić<br>ENABLING EVIDENCE-BASED AGRICULTURAL AND RURAL DEVELOPMENT POLICY MAKING IN THE WESTERN BALKANS   |
| 10:15-10:30<br>O4_02 | Mirjana Bojčevski, Zorica Vasiljević, Vlado Kovačević,<br>THE FADN' FARM NET VALUE ADDED AS A MAIN INDICATOR OF FARM INCOME IN EU AND SERBIA   |
| 10:30-10:45<br>O4_03 | Tihomir Novaković, Beba Mutavdžić, Dragan Milić, Dragana Tekić<br>THE ANALYSIS OF SUBSIDY STRUCTURE ACCORDING TO TYPE AND ECONOMIC SIZE OF AGRICULTURAL HOLDING IN SERBIA  |
| 10:45-11:00<br>O4_04 | Vesna Mrdalj, Nemanja Jalić, Nataša Tomić, Aleksandar Ostojić, Željko Vaško<br>COMPARATIVE ADVANTAGES AND INTRA-INDUSTRY TRADE FOR MEAT SECTOR IN BOSNIA AND HERZEGOVINA'S TRADE   |
| 11:00-11:15<br>O4_05 | Akupian Olga Stanislavovna, Kitaev Yuri Alexandrovich<br>COMPETITIVENESS OF RUSSIAN GRAIN: STATE, PROSPECTS AND DEVELOPMENT TRENDS   |
| 11:15-11:30<br>O4_06 | Željko Vaško, Marko Ivanković<br>THE LACK OF LABOR FORCE – A THREAT TO THE DEVELOPMENT OF AGRICULTURE  |
| 11:30-11:45          | <b>Coffee break</b>  |
|                      | <b>Part II</b>   |

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| 11:45-12:00<br>O4_07 | Nebojša Novković, Mile Peševski, Beba Mutavdžić, Ljiljana Drinić, Šumadinka Mihajlović<br>TOMATO PRICE – COMPARATIVE ANALYSIS: SERBIA, MACEDONIA AND REPUBLIC OF SRPSKA                                   |
| 12:00-12:15<br>O4_08 | Nebojša Novković, Beba Mutavdžić, Otilija Sedlak, Borko Sorajić, Vasily Erokhin<br>CABBAGE PRICE – COMPARATIVE ANALYSIS   |
| 12:15-12:30<br>O4_09 | Delyana Marinova<br>PERCEPTIONS TOWARD AGROTOURISM<br>DIVERSIFICATION – THE CASE OF FAMILY FARMING IN PRESIPA REGION, MACEDONIA   |
| 12:30-12:45<br>O4_10 | Dragan Brković, Milenko Đurić, Miljan Cvetković<br>POTENTIALS AND OBSTACLES OF AGRITOURISM<br>DEVELOPMENT IN BOSNIA AND HERZEGOVINA AND SERBIA  |
| 12:45-13:00<br>O4_11 | Lovro Sinkovič, Gregor Urek<br>NATIONAL ACTION PLAN (NAP) FOR SUSTAINABLE USE<br>OF PLANT PROTECTION PRODUCTS: AN EXAMPLE OF SLOVENIA   |
| 13:00-14:00          | <b>Discussion of oral and poster presentations</b>  |
|                      | <i>Moderators of the discussion on oral presentations:<br/>Vesna Mrdalj, Vlado Kovačević, Nebojša Novković<br/>Moderators of the discussion on poster presentations:<br/>Željko Vaško, Dragan Brković</i> |
| 14:00                | <b>Lunch</b>  |

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|  | <b>SECTION:<br/>SUSTAINABLE MANAGEMENT OF NATURAL<br/>RESOURCES</b> |
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|            | <b>Poster Presentations</b>   | Large Hall, Hotel Leotar |
| 9:00-10:00 | <b>Poster tour in the poster exhibition hall, in the presence of the authors</b>  |                          |
|            | <i>Moderators of poster presentations:<br/>Mihajlo Marković, Petar Nikolić</i>  |                          |
| P5_01      | Barbara Pipan, Lovro Sinkovič, Marina Antić, Vida Todorović, Vladimir Meglič<br>DIVERSITY OF GENETIC RESOURCES OF <i>Phaseolus coccineus</i> L. FROM BOSNIA AND HERZEGOVINA |                          |

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| P5_02 | Mirsad Ičanović, Mihajlo Marković, Husnija Kudić<br>EVALUATION OF THE SOIL SUITABILITY OF THE BUŽIM MUNICIPALITY, FOR THE POTATO ( <i>Solanum tuberosum</i> ) CULTIVATION   |
| P5_03 | Vojka Babić, Tanja Petrović, Marija Milivojević, Milosav Babić, Petar Čanak, Natalija Kravić<br>EFFECT OF SEED PRIMING ON SEED VIABILITY AND SEEDLINGS PERFORMANCES IN MAIZE GENE BANK ACCESSIONS                 |
| P5_04 | Radovan Savić, Miljan Velojić, Atila Bezdán, Vesna Nikolić, Milica Vranešević, Radoš Zemunac, Nenad Antonić<br>THE DOMINANT DIRECTIONS OF WIND EROSION IN VOJVODINA   |
| P5_05 | Dragana Drobnjak, Nenad Katanić<br>CLIMATE STRATEGY AND ACTION PLAN IN THE REPUBLIC OF SERBIA   |
| P5_06 | Željko Mihaljev, Brankica Kartalović, Milica Živkov Baloš, Sandra Jakšić, Nenad Popov<br>RADIOACTIVE RESIDUE BURDENS IN SOIL, FOODSTUFFS, ANIMAL FEED AND BIOLOGICAL MATERIAL                                     |
| P5_07 | Nadia Chammem, Amira Oueslati, Lamia Ayed, Asma Mejri, Moktar Hamdi<br>SELECTION OF PROBIOTICS FROM TUNISIAN TABLE OLIVES : TOWARDS A BETTER CONTROL AND VALORIZATION OF A MEDITERRANEAN FERMENTED FOOD           |
| P5_08 | Ivana Radojević, Sara Todorić, Filip Mojsovski, Hristina Ivanovska<br>ORGANIC GRAPE PRODUCTION  |
| P5_09 | Mirela Kajkut Zeljković, Borut Bosančić, Gordana Đurić<br>DIVERSITY OF PEAR ( <i>Pyrus communis</i> L.) ACCESSIONS IN THE <i>EX SITU</i> COLLECTION AT THE GENE BANK OF REPUBLIKA OF SRPSKA                       |
| P5_10 | Sonja Rašeta, Mirela Kajkut Zeljković, Marina Antić, Gordana Đurić, Vida Todorović<br>FRUIT CHARACTERISTICS OF TOMATO ACCESSIONS ( <i>Lycopersicon esculentum</i> MILL.) FROM THE GENE BANK OF REPUBLIC OF SRPSKA |
| P5_11 | Veronika Žitniak Čurná<br>REPRODUCTIVE POTENTIAL OF JERUSALEM ARTICHOKE ( <i>Helianthus tuberosus</i> L.)   |
| P5_12 | Ivana Čegar, Sanda Stanivuković, Boris Pašalić, Gordana Đurić<br>POMOLOGICAL CHARACTERISTICS OF APPLE FRUITS FROM <i>EX SITU</i> COLLECTION   |


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| P5_13                | Dijana Mihajlović, Svetlana Antić-Mladenović, Dragoja Radanović, Vaso Bojanić<br>THE CONTENT OF COPPER IN THE SOILS OF DIFFERENT GEOMORPHOLOGICAL UNITS   |
| P5_14                | Biljana Radusin Sopić, Biljana Lolić, Branimir Nježić, Milan Šipka, Gordana Đurić<br>SOIL BIOGENITY OF THE BANJA LUKA REGION AS A RESULT OF THE INTERACTION OF BIOLOGICAL AND CHEMICAL FACTORS  |
| P5_15                | Siniša Mitrić, Darko Golić, Vaskrsija Janjić, Dragana Božić, Zlatan Kovačević, Vladan Jovanović, Biljana Kelečević<br>DEPENDENCE OF THE EFFICACY OF PRE-EMERGENCE HERBICIDES (PreEM) IN COMMON RAGWEED CONTROL OF THE DOSE AND NUMBER OF DAYS AFTER HERBICIDE APPLICATION (DAA) |
| P5_16                | Michalak Agata<br>THE DEVELOPMENT OF THE BIOGAS SECTOR IN POLAND  |
| P5_17                | Mirjana Vasić, Aleksandra Savić, Maja Ječmenica, Danica Mladenović, Milan Zdravković, Jelica Gvozdanović Varga, Slobodan Vlajić<br>GRAIN CHARACTERISTICS OF THE COLLECTION <i>Lathyrus sativus L.</i> IN INSTITUTE OF FIELD AND VEGETABLE CROPS, NOVI SAD, SERBIA               |
|                      | <b>Oral Presentations</b>   |
|                      | Red Salon- Hotel Leotar   |
|                      | <b>Working Committee:</b><br><i>Gordana Đurić, Duška Delić, Radovan Savić</i>   |
|                      | <b>Part I</b>   |
| 10:00-10:15<br>O5_01 | Steliana Rodino, Alina Butu, Marian Butu<br>BIOECONOMY AS A DEVELOPMENT DRIVER FOR NATURAL BIORESOURCES STRATEGIES IN ROMANIA   |
| 10:15-10:30<br>O5_02 | Ranko Sarić, Vladan Ivetić<br>ESTABLISHMENT OF SHELTERBELTS WITH AUTOCHTHONOUS TREE SPECIES   |
| 10.30-10:45<br>O5_03 | Marko Kuzman, Nikola Travar, Sunčica Bodružić, Rodoljub Oljača, Ljiljana Došenović, Gordana Đurić<br>CURRENT CONDITION AND TRANSFORMATION OF DENDROFLORA IN PROTECTED AREA „UNIVERSITY CITY“  |
| 10:45-11:00<br>O5_04 | Petar Nikolić, Nikola Travar, Biljana Lolić<br>DIVERSITY OF WILD BEES IN THE REPUBLIC OF SRPSKA AND POTENTIAL FOR THEIR USE IN AGRICULTURAL PRODUCTION  |

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| 11:00-11:15<br>O5_05 | Dragan Brenjo, Džemil Hajrić<br>EU POLICY ON FOOD QUALITY AND LEGISLATIVE FRAMEWORK IN BOSNIA AND HERZEGOVINA  |
| 11:15-11:30          | <b>Coffee break</b>  |
|                      | <b>Part II</b>   |
| 11:30-11:45<br>O5_06 | Duška Delić<br>DETECTION OF VIRUSES USING NEXT GENERATION SEQUENCING TECHNOLOGIES: EXPERIENCE WITH FRUIT TREE AND GRAPEVINE VIRUSES  |
| 11:45-12:00<br>O5_07 | Mihajlo Marković, Dijana Mihajlović, Svetlana Antić-Mladenović, Milan Šipka<br>LOCAL BACKGROUND VALUES OF THE LEAD IN THE SOILS OF THE BANJA LUKA AREA   |
| 12:00-12:15<br>O5_08 | Walter Froelich, Milos Noznic, Vojislav Trkulja, Vesna Bojic, Novo Przulj, Danijela Kondic, Marc Steinmann, Hannes Kurz, Benedikt Sauer, Mara Bojic, Robert Schmidtke<br>RARE EARTH ELEMENTS IN ROCKS, SOILS, AND PLANTS OF BANJA LUKA REGION, REPUBLIC OF SRPSKA (RS) |
| 12:15-12:30<br>O5_09 | Dimitrije Marković, Gordana Đurić, Branimir Nježić, Boris Pašalić, Gvozden Mičić, Jovana Mastilović<br>ECOSTACK FIRST HORIZON 2020 RESEARCH AND INNOVATION PROJECT AT UNIVERSITY OF BANJA LUKA   |
| 12:30-13:30          | <b>Discussion of oral and poster presentations</b>   |
|                      | <i>Moderators of the discussion on oral presentations:<br/>Gordana Đurić, Duška Delić, Radovan Savić<br/>Moderators of the discussion on poster presentations:<br/>Mihajlo Marković, Petar Nikolić</i>   |
| 14:00                | <b>Lunch</b>   |

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|  | <b>SECTION:<br/>PANEL SESSION<br/>HOTEL LEOTAR – LARGE HALL</b> |  |
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|               | <b>AGRICULTURE AND CLIMATE CHANGE</b>  |
| 17.00 – 18.30 | <i>Moderator:<br/>Professor Mihajlo Marković, Faculty of Agriculture, University of Banja Luka</i> |

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|       | <p><b>Panelists:</b><br/>         Professor Goran Trbić, Faculty of Natural Sciences and Mathematics, University of Banja Luka<br/>         Tomislav Šajić, MSc, Republic Hydrometeorological Service of the Republic of Srpska<br/>         Duško Vujović, MSc, Water Production and Management Division, HET.<br/>         Professor Mladen Todorović, Mediterranean Agronomic Institute of Bari</p> |
| 20:00 | <b>GALA DINNER</b>   |

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|  | <b>Saturday, May 18, 2019</b> |
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| 09:00 – 12:00                               | <b>Filed visit (“Popovo polje” company and Monastery “Tvrdoš”)</b>  |
| Large Hall,<br>Hotel Leotar<br>9:00 – 12:30 | <b>24 Conference of agriculture engineers of the Republic of Srpska and 10 Continuous education of agricultural engineers of the Republic of Srpska</b> |
|   | <b>Working Committee:<br/>Siniša Mitrić, Borislav Milivojević, Jasenko Nedinić</b>  |

## Effects of the production methods on vigour of soybean seed

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### Abstract

The seed accelerated ageing test is one of the most important tests for the seed vigour determination that provides establishing of the degree of germination maintenance and the determination of the seed storage longevity. The objective of the present study was to observe the effects of different production methods (organic and conventional) on seed vigour of the soybean cultivar *Kača* by the application of the seed accelerated ageing test (ISTA Rules, 2016). The soybean seed was exposed to double stress conditions (temperature 41°C, air humidity 100%) for 72h. In organic soybean seeds, stress conditions affected the increase in the number of non-germinated seeds by reducing the germination percentage. The length of the above-ground part of seedlings (121.63 mm), fresh weight (8.9 g), as well as dry weight of the above-ground part of seedlings (1.05 g) were greater in the accelerated ageing test than in the standard laboratory test, while the length (100.25 mm), fresh (1.26 g) and dry weight (0.1 g) of the root were greater in the standard laboratory test. The percentage of off-type seedlings (10.75%) and non-germinated seeds (26%) was greater in the accelerated ageing test. More over the length of the above-ground part, root length and root fresh weight were reduced by 100.63 mm, 106.75 mm and 1.39 g, respectively.

*Key words:* vigour, organic production, conventional production, soybean seed