

Croatian <sup>58</sup>  
*sa* <sup>18</sup>  
2023 International  
Symposium on  
Agriculture



# PROGRAMME

International Summit on Renewable Energy (INSORE2023)

58<sup>th</sup> Croatian & 18<sup>th</sup> International Symposium on Agriculture (SA2023)





# **PROGRAMME**

International Summit on Renewable Energy INSORE 2023

11-13 February, 2023, Dubrovnik, Croatia

58th Croatian and 18th International Symposium on Agriculture

11-17 February, 2023, Dubrovnik, Croatia



## ► SATURDAY, 11 FEBRUARY, 2023

- 15:00 -18:00      Registration of participants  
18:00              Welcome reception

## ► SUNDAY, 12 FEBRUARY, 2023

- 08:30 - 17:00      Registration of participants

### HALL :: ELAFITI 4

- 10:00 - 12:00      Opening ceremony INSORE2023 & SA2023  
12:00 - 12:15      Coffee break  
12:15 - 14:00      Panel discussion INSORE2023  
                         – Policies to achieve sustainable goals  
14:00 - 15:30      Lunch break  
15:30 - 17:00      Plenary lectures INSORE2023  
17:00 - 17:15      Coffee break  
17:15 - 19:00      Plenary lectures INSORE2023

## ► MONDAY, 13 FEBRUARY, 2023

- 08:00 - 17:00      Registration of participants

### HALL :: ELAFITI 4

- 08:30 - 10:30      Plenary lectures INSORE2023  
10:30 - 10:45      Coffee break  
10:45 - 12:00      Sponsored lectures - Vendor seminars

- 12:00 - 13:00      Panel discussion INSORE2023  
                         – Implementation of green innovations
- 13:00 - 14:00      Lunch break
- 14:00 - 16:00      Plenary lectures SA2023
- 16:00 - 16:15      Coffee break
- 16:15 - 17:30      Round table – Facing new challenges  
                         in food safety and security
- NOCTURNO BAR :: 17:30 :: Tasting of traditional products / Klapa

## ► TUESDAY, 14 FEBRUARY, 2023

- 08:00 - 17:00      Registration of participants

### **SA2023 :: Sessions**

- 08:30                Genetics and Plant Breeding  
                         ELAFITI 2 HALL
- 08:30                Viticulture, Enology and Pomology  
                         ELAFITI 4 HALL
- 08:30                Fisheries, Wildlife Management and Apiculture  
                         ELAFITI 3 HALL
- 11:30                Biodiversity Conservation  
                         ELAFITI 2 HALL
- 12:30 - 14:00      Lunch break
- 14:00                Agricultural Economics and Rural Development  
                         ELAFITI 4 HALL
- 14:00                Vegetable Growing, Ornamental, Medicinal  
                         and Aromatic Plants  
                         ELAFITI 3 HALL

14:00            Crop Production  
                    ELAFITI 2 HALL

NOCTURNO BAR :: 21:00 :: Party

## ► **WEDNESDAY, 15 FEBRUARY, 2023**

08:00 - 12:00    Registration of participants

### **SA2023 :: Sessions**

08:30            Agroecology, Organic Agriculture and Environment Protection  
                    ELAFITI 2 HALL

08:30            Food, Feed and Quality  
                    ELAFITI 3 HALL

08:30            Precision Farming and Sustainable Bio-based Production  
                    ELAFITI 4 HALL

12:30 - 14:00   Lunch break

14:00            Animal Science  
                    ASIMON HALL

14:00            Plant Protection  
                    BOKAR HALL

ELAFITI :: 20:00 :: Gala dinner

## ► **THURSDAY, 16 FEBRUARY, 2023**

10:00            Excursion

## ► **FRIDAY, 17 FEBRUARY, 2023**

Departure

## ► SUNDAY, 12 FEBRUARY, 2023

HALL :: ELAFITI 4

10:00 - 12:00      Opening ceremony INSORE2023 & SA2023

12:00 - 12:15      Coffee break

12:15 - 14:00      Panel discussion INSORE2023  
– Policies to achieve sustainable goals

14:00 - 15:30      Lunch break

Plenary session INSORE2023

Moderators :: **Neven Voća, Boris Lazarević**

- 15:30                **Zed Rengel**  
Enhancing resource-use efficiency in food production
- 15:50                **Ivan Šimić**  
Overview of the renewable energy sources structure in Croatia
- 16:10                **Ivica Jakić**  
Green hydrogen production and use of waste heat for growing vegetables on agricultural plots with agro-solar power plants
- 16:30                **Pinakeshwar Mahanta**  
Biomass gasification for decentralized power generation:  
The Indian perspectiv
- Discussion**



- 17:00                    Coffee break
- 17:15                    **Luciano Mule’Stagno**  
Offshore Floating Solar – the next frontier in renewable energy
- 17:35                    **Mario Vašak**  
Renewable Energy Atlas and Optimization Tool for  
Power-to-Gas Hubs – case Croatia
- 17:55                    **Arup Kumar Misra**  
Transport and urban air pollution in India
- 18:15                    **Arup Goswami**  
Renewable Energy Management and Smart Grid in India
- 18:35                    **Kenji Uchino**  
Usage of non-toxic materials & the disposal technology for  
existing hazardous materials
- Discussion**

## Poster Session

### HALL :: ELAFITI 1

- 1. Gavrilović Ana, Raktim Sarmah, Rajdeep Dutta, Sarada Kanta Bhagabati, Jurica Jug-Dujaković**  
Circular bioeconomy model for biofuel production from aquaculture waste
- 2. Szilvia Veres, Péter Makleit, Oqba Basal**  
The new role of integrative plant physiology in agricultural research in term of sustainability
- 3. Brigitta Tóth, Michael A. Grusak, Maryke Labuschagne, Carlos Guzman, Lóránt Szóke, Dávid Kaczur, Roland Harangi, Béla Kovács, László Radócz, Saya Makhsatova, Mátyás Danter, János Nagy, Ma-koena Joyce Moloji**  
Evaluation of the impacts of stressors on crops in the context of climate change
- 4. Mihaela Blažinkov, Ljiljana Božić-Ostojić, Nataša Veljić, Olivera Maglić**  
The role of sustainable energy in development of rural tourism in Slavonija and Baranja area
- 5. Branimir Omazić, Mislav Anić, Lucija Blašković, Maja Telišman Prtenjak**  
Development of the new method for frost detection in Croatia
- 6. Pratik R. Wankhade, Hari Om Pandey, Mukesh Singh, Ayon Tarafdar, A.K.S. Tomar, A.K. Pandey, Gyanendra Kumar Gaur, Triveni Dutt**  
Assessment of water footprint for milk production in zebu and crossbred cattle, and buffaloes at organized farm conditions in northern India
- 7. Ivana Špelić, Alka Mihelić-Bogdanić**  
Tackling the climate change through collaborative approach

## ► MONDAY, 13 FEBRUARY, 2023

HALL :: ELAFITI 4

Plenary session INSORE2023

Moderators :: **Neven Voća, Boris Lazarević**

- 08:30            **Domagoj Šimić**  
Crop production, climate change and data galore: where are we now?
- 08:50            **Craig J Sturrock**  
Multiscale imaging approaches for understanding crop root responses to soil environmental stress
- 09:10            **Johann Sölkner**  
A way out: community based livestock breeding programs for low input systems
- 09:30            **Atul Bora**  
Sustainable development issues and issues in sustainability perspective
- 09:50            **Danijel Jug**  
Importance of crop residue management in Conservation Agriculture
- Discussion**
- 10:30            Coffee break
- 10:45            Sponsored lectures - Vendor seminars /  
Moderator :: Marko Petek
- 12:00            Panel discussion INSORE2023  
– Implementation of green innovations
- 13:00 – 14:00    Lunch break

## Plenary session SA2023

Moderators :: **Ivica Kisić, Krunoslav Zmaić**

- 14:00            **Paulo Pereira**  
Soil ecosystem services in a climate change context
- 14:20            **Marija Horvat**  
Biostimulants as an integrated crop management tool
- 14:40            **Gregor Gorjanc**  
Leveraging genetics and breeding for sustainable protein production in the 21<sup>st</sup> century
- 15:00            **Miroslav Jůzl**  
The future prospects of the meat industry
- 15:20            **Jernej Prišenk**  
Can the added values in supply chains be the solutions for improving the potential and functionality of the food sector?
- Discussion**
- 16:00 – 16:15    Coffee break
- 16:15            Round table – Facing new challenges in food safety and security
- NOCTURNO BAR :: 17:30 :: Tasting of traditional products / Klapa

## ► TUESDAY, 14 FEBRUARY, 2023

### Session 3. Genetics and Plant Breeding

HALL :: ELAFITI 2

Moderators :: **Marko Maričević, Vlatko Galić**

- 08:30           **Vlatko Galić, Josip Spišić, Tatjana Ledencan, Antun Jambrović, Zvonimir Zdunić, Ivana Podnar Žarko, Domagoj Šimić**  
Efficiency of indirect selection for agronomic performance by multispectral vegetation indices
- 08:45           **Marko Maričević, Ivica Ikić, Katarina Jukić, Matija Sever, Domagoj Stepinac, Ana Lovrić**  
Stability of yield and grain quality of winter wheat under different nitrogen fertilization levels
- 08:55           **Marina Zorić, Tibor Hedi, Dragana Drkušić, Zvonimir Lalić, Magdalena Grbeša, Luka Drenjančević**  
Interrelationships of vegetation length, plant height and grain yield in winter wheat VCU experiments
- 09:05           **Andrija Brkić, Miroslav Salaić, Antun Jambrović, Domagoj Šimić, Zvonimir Zdunić, Josip Brkić, Vlatko Galić**  
Limited transpiration and Liebig's Law of minimum in hot, managed environments
- 09:15           **Mima Petrošević, Ivica Buhiniček, Mirko Jukić, Michael Sulyok, Jerko Gunjača, Hrvoje Šarčević**  
Variation of fusarium ear rot and mycotoxin concentration in grains of maize hybrids

09:25 **Ivica Beraković, Goran Jukić, Dijana Ocvirk, Hrvoje Plavšić, Goran Krizmanić, Marko Josipović, Krešimir Šunjić**  
Quality control of insecticide-treated corn seed using the Heubach test

### **Discussion**

09:45 Book presentation: "Kukuruz: priča o uspjehu"  
(Maize: success story) author: dr.sc. Andrija Brkić

10:00 Coffee Break

### **10:30 Session 3. Poster Session**

DVORANA :: ELAFITI 1

Questions and discussion on posters

Moderators :: **Vedran Orkić, Jurica Primorac**

- 3.1. **Marijana Tucak, Goran Krizmanić, Tihomir Čupić**  
Green mass and seed yield potential of alfalfa breeding populations
- 3.2. **Ivana Plavšin, Jerko Gunjača, Krešimir Dvojković, Dario Novoselović**  
Potential of different genomic selection models for predicting wheat dough rheological properties
- 3.3. **Marián Brestič, Marek Kovár, Marek Živčák, Mária Barboričová, Dominika Mlynáriková-Vysoká**  
Assessment of phenotypic traits in lettuce under drought stress

- 3.4. **Marek Zivcak, Marian Brestic, Andrej Filaček, Mária Barboričová, Pavol Hauptvogel**  
Drought stress phenotyping of wheat genotypes using noninvasive methods
- 3.5. **Goran Krizmanić, Tihomir Čupić, Marijana Tucak**  
Assessment of agronomic values and stability of yield components of newly created spring field pea lines (*Pisum sativum* L.)
- 3.6. **Tihomir Čupić, Sonja Petrović, Goran Krizmanić, Marijana Tucak**  
Selection of winter hardiness *Pisum sativum* L. genotypes based on phenotypic characterization
- 3.7. **Hrvoje Šarčević, Miroslav Bukan, Ana Mandić, Ramsey S. Lewis, Vinko Kozumplik**  
Changes in allele frequencies after four cycles of recurrent selection in the Maksimir 3 synthetic maize population
- 3.8. **Snježana Kereša, Ivanka Habuš Jerčić, Anita Bošnjak Mihovilović, Ana Matković Stanković, Milan Pospišil**  
Micropropagation and microtuberization of the traditional potato cultivar 'Brinjak'
- 3.9. **Ivanka Habuš Jerčić, Anita Bošnjak Mihovilović, Ana Matković Stanković, Boris Lazarević, Smiljana Goreta Ban, Dean Ban, Nikola Major, Ivana Tomaz, Zrinka Banjavčić, Snježana Kereša**  
The influence of drought on morphological, physiological and biochemical characteristics of two ecotypes of garlic
- 3.10. **Jurica Primorac, Hrvoje Šarčević, Zrinka Knezović, Aleš Vokurka, Ana Mandić, Snježana Bolarić**  
Changes in allele frequencies and genetic diversity in red clover after selection for cold tolerance using SSR marker

- 3.11. **Klaudija Vujica, Ana Sesar, Jurica Primorac**  
Detection of GMOs in samples of food and animal feed sold in Bosnia and Herzegovina (BiH) market
- 3.12. **Vedran Orkić, Sunčica Kujundžić, Sonja Petrović, Andrijana Rebekić, Sanja Gubišić Šestan, Sonja Vila, Vlado Guberac**  
PHS differences in Croatian wheat cultivars
- 3.13. **Sunčica Kujundžić, Vedran Orkić, Sonja Petrović, Andrijana Rebekić, Tihomir Čupić, Sonja Vila**  
Distribution of Rht, Ppd and Vrn alleles in diverse wheat germplasm

## **Session 5.2.: Viticulture, Enology and Pomology**

HALL :: ELAFITI 4

Moderators :: **Darko Preiner, Dominik Vuković**

- 08:30 **Iva Šikuten, Petra Štambuk, Ivana Tomaz, Jasminka Karoglan Kontić, Edi Maletić, Darko Preiner**  
The genetic and geographical groups of grapevine varieties discriminated by polyphenolic and volatile profiles
- 08:45 **Marina Anić, Mirela Osrečak, Petra Štambuk, Lovre Ljubičić, Marko Karoglan**  
Impact of late winter pruning of Portugieser grapevines (*Vitis vinifera* L.) on yield components and grape composition



- 08:55            **Zvezdana Marković, Paulina Piškor, Petra Štambuk, Darko Preiner, Iva Šikuten, Edi Maletić, Jasminka Karoglan Kontić**  
Optimization of preculture medium for in vitro microcuttings in the cryopreservation procedure of the grapevine cultivar 'Graševina'
- 09:05            **Monika Zovko, Marijan Bubola, Darko Preiner, Zvezdana Marković, Marko Reljić, Davor Romić**  
Effects of different irrigation regimes on vegetation indicators and qualitative characteristics of Teran grape (*Vitis vinifera* L.)
- 09:15            **Fumiće Orbanić, Sara Rossi, Ena Bestulić, Karin Kovačević Ganić, Natka Ćurko, Marina Tomašević, Tomislav Plavša, Ana Jeromel, Sanja Radeka**  
Total phenolic content and antioxidant capacity of Teran red wine: influence of pre-fermentative mash procedures
- 09:25            **Igor Lukić, Doris Delač Salopek, Ivana Horvat, Marijan Bubola, Silvia Carlin, Urska Vrhovsek**  
Influence of harvest date on Malvazija istarska volatile composition as revealed by HS-SPME-GC×GC-TOF MS
- 09:35            **Franc Čuš, Anastazija Jež Krebelj, Maja Vodušek, Mateja Potisek**  
Which factor contributes most to the typicality of wine?  
A Slovenian case study
- Discussion**
- 10:00            Coffee Break
- 10:30            **Darko Preiner, Iva Šikuten, Domagoj Stupić, Petra Štambuk, Ivana Tomaz, Edi Maletić, Zvezdana Marković, Jasminka Karoglan Kontić**  
Results of marker-assisted selection for downy and powdery mildew resistance in grapevine breeding program

- 10:40      **Šimun Kolega, Goran Fruk, Tomislav Kos**  
Influence of rhizobacterium on the vegetative activity  
of one-year-old MaxMa 14 rootstocks
- 10:50      **Dominik Vuković, Marija Viljevac Vuletić, Daniela Horvat,  
Ines Mihaljević, Vesna Tomaš, Marija Kovačević Babić,  
Martina Skendrović Babojelić, Krunoslav Dugalić**  
Fruit quality of different sour cherry varieties  
(*Prunus cerasus* L.) in Eastern Slavonia
- 11:00      **Branimir Urlić, Maja Jukić Špika, Marko Runjić,  
Slavko Perica**  
Nitrogen nutrition in olive orchards of Central Dalmatia

### **Discussion**

- 11:30      **Session 5.2.: Poster Session**  
HALL :: ELAFITI 1  
Questions and discussion on posters  
Moderators :: **Darko Preiner, Dominik Vuković**

- 5.2.1.      **Igor Lukić, Ivana Horvat, Sanja Radeka, Doris Delač  
Salopek, Marina Markeš, Marija Ivić, Ana Butorac**  
Effect of clarification with various types of bentonite  
on proteins, phenols, and aromas in Malvazija istarska  
white wine
- 5.2.2.      **Marina Vranješ, Ana Jeromel, Tihomir Prusina,  
Darko Preiner, Petra Štambuk, Ivana Tomaz,  
Ana-Marija Jagatić Korenika**  
Maceration length and yeast species as chemical  
composition factors of Trnjak wine (*V. vinifera* L.)

- 5.2.3. **Antonija Tomić, Ana Marija Jagatić Korenika, Ivana Alpeza, Ana Jeromel**  
Chemical composition of fruit wines from Croatia
- 5.2.4. **Toni Kujundžić, Iva Varžić, Mato Drenjančević, Vladimir Jukić, Zdenko Lončarić, Sanja Grubišić Šestan, Andrijana Rebekić**  
Influence of biofortification with selenium and zinc on qualitative properties of must and wine cv. Cabernet Sauvignon
- 5.2.5. **Željko Andabaka, Katarina Kontrec, Domagoj Stupić, Iva Šikuten, Zvezdana Marković, Darko Preiner, Jasminka Karoglan Kontić, Edi Maletić, Ivana Puhelek, Ivana Tomaz, Antonija Tomić**  
Utjecaj defolijacije i prorjeđivanja grozdova na kemijski sastav grožđa sorte Zlatarica vrgorska u vinogorju Vrgorac
- 5.2.6. **Zlatko Prculovski, Mihail Petkov, Krum Boskov, Sami Kryeziu**  
Bunch load as a factor of the yield and quality of Victoria and Ribier table grape varieties
- 5.2.7. **Bogdan Stojanović, Zoran Bešlić**  
Effect of grow tubes on vegetative growth of planted Marselan vines
- 5.2.8. **Igor Pasković, Paula Žurga, Valerija Majetić Germek, Šime Marcelić, Mia Brkljača, Filip Pošćić, Marija Polić Pasković, Smiljana Goreta Ban**  
Olive leaf mineral and total phenolic concentrations: The effect of different cultivars

- 5.2.9. **Bojana Borovac, Paulina Šaravanja, Radica Ćorić, Zrinka Knezović**  
Pomološka svojstva višnje sorte 'Oblačinska' na vlastitom korijenu i na podlozi 'Rašeljka'
- 5.2.10. **Ivan Limić, Tonka Ninčević Runjić, Mira Radunić**  
From the sea to the mountain: morphological variability of *Rosa canina* L. fruits from the Mediterranean part of Croatia
- 5.2.11. **Marko Vinceković, Marija Kovar, Slaven Jurić, Katarina Sopko Stracenski, Kristina Vlahoviček Kahlina, Boris Duralija**  
Application of zinc formulations of microalgae (*Chlorella*) in blueberry cultivation
- 5.2.12. **Iva Šikač, Dragutin Kamenjak, Vedran Znamenáček, Martina Skendrović Babojelić**  
Pomological and physicochemical properties of traditional apple varieties from Koprivničko-Križevačka County
- 5.2.13. **Veronika Rigel'ská, Eleonóra Krivosudská, Marián Brestič**  
Polyphenol content and antioxidant activity in blackberry (*Rubus fruticosus* L.) of various origin
- 5.2.14. **Tvrtko Jelačić, Predrag Vujević, Diana Janković, Danijel Čiček, Željko Budinščak, Jelena Ravlić**  
The influence of heat stress on the pomological, physiological and chemical characteristics of 34 apple varieties

14:00 HALL :: ASIMON  
The 8<sup>th</sup> round table – CroViZone, KK.05.1.1.02.0032

## Session 6. Fisheries, Wildlife management and Apiculture

HALL :: ELAFITI 3

Moderators :: **Daniel Matulić, Ivan Špelić**

- 08:30 **Ana Gavrilović, Oliver Barić, Tena Radočaj, Damir Kapetanović, Irena Vardić Smrzlić, Neven Iveša, Ivan Špelić, Tea Tomljanović, Daniel Matulić, Marina Piria**  
The state of the European eel, *Anguilla anguilla* (Linnaeus, 1758) population in the Neretva delta area
- 08:45 **Oliver Barić, Tena Radočaj, Ivan Špelić, Jurica Jug-Dujaković, Ana Gavrilović**  
Presence of different life stages of European eel (*Anguilla anguilla* Linnaeus, 1758) in the catch at the mouth of river Neretva
- 08:55 **Ivan Špelić, Tena Radočaj, Neven Iveša, Jurica Jug-Dujaković, Ana Gavrilović**  
Changes in flesh dielectric properties and pH values of red mullet, *Mullus barbatus*, under different storage conditions
- 09:05 **Luka Žuvić, Klara Zubak-Novak, Jerko Hrabar, Igor Talijančić, Iva Žužul, Leon Grubišić, Tanja Šegvić-Bubić**  
Stomach content analysis of the Atlantic bluefin tuna in Adriatic Sea
- 09:15 **Tena Radočaj, Neven Iveša, Oliver Barić, Ivan Špelić, Jurica Jug-Dujaković, Ana Gavrilović**  
Weight representation of cartilaginous species in the catch in the fishing subzone G5 area, Eastern Adriatic

- 09:25            **Marija Ljubić, Marina Brailo, Jurica Jug-Dujaković, Ana Gavrilović**  
Mechanical filtration in aquaculture
- 09:35            **Vjekoslav Tičina, Ivan Katavić, Leon Grubišić**  
A review of the studies on bluefin tuna  
in the eastern Adriatic Sea
- 09.45            **Réka Enikő Balogh, Dániel Péter, Adrienn Bíró, Julianna Kobolák, Milán Varju-Katona, Gábor Szilágyi, Zoltán Bokor, Béla Urbányi, Balázs Kovács**  
Selective breeding approach to improve feed efficiency in  
African catfish (*Clarias gariepinus*)
- Discussion**
- 10:00            Coffee Break
- Moderators :: **Ana Gavrilović, Jurica Jug Dujaković, Dragan Bubalo**
- 10:30            **Daniel Matulić, Marko Karoglan, Željko Andabaka, Sanja Radman, Goran Fruk, Josip Leto, Tea Tomljanović**  
Aquavoltaics - floating solar panels in synergy with  
aquaculture
- 10:40            **Jurica Jug-Dujaković, Tena Radočaj, Neven Iveša, Ivan Špelić, Ana Gavrilović**  
The possibility of commercialization of the catch  
of the invasive Atlantic blue crab, *Callinectes sapidus*  
(Rathbun, 1896)
- 10:50            **Jure Brčić, Kristine Cerbule, Bent Herrmann, Željka Trumbić, Mirela Petrić, Svjetlana Krstulović Šifner**  
The potential use of biodegradable materials in the Adriatic  
Sea small scale longline fishery

- 11:00           **Manuela Vukić, Tena Bujas, Marija Koričan, Zdenko Tonković, Vladimir Soldo, Ivan Čatipović, Nikola Vladimir**  
Overview of fish farming cage structures and their applicability for offshore mariculture in the Adriatic Sea
- 11:10           **Lidija Svečnjak, Kristian Bošković, Saša Prđun, Irina Tanuwidjaja, Mirna Mrkonjić Fuka**  
Metric and spectral insight into bee pollen-to-bee bread transformation process
- 11:20           **Saša Prđun, Lidija Svečnjak, Darija Bendelja Ljoljić, Ivana Flanjak, Blanka Bilić Rajs, Ljiljana Primorac, Dragan Bubalo**  
Physicochemical properties of wild cherry honey (*Prunus avium* L.)
- 11:30           **Toni Safner, Nikica Šprem, Elena Bužan**  
Evidence of hybridization between mouflon and domestic sheep
- 11:40           **Mihael Janječić, Luca Corlatti, Toni Safner, Nikica Šprem**  
Activity pattern of European mouflon in the Mediterranean habitat - a preliminary results
- 11:50           **Ivan Krupec, Mirjana Ivasić, Ervin Martinuš**  
Analysis of land structure in non-hunting areas
- Discussion**
- 12:15           **Session 6. :: Posters Session**  
HALL :: ELAFITI 1  
Moderators :: **Tena Radočaj, Ivan Špelić**
- 6.1.           **Zvezdana Popović Perković, Jelena Kurtović Mrčelić, Josip Boban, Matteo Hajder**  
Shellfish biodiversity on larvae mesh bag collectors in two Natura 2000 sites, Pantan (HR3000430) and the Cetina estuary (HR3000126)

- 6.2. **Luka Glamuzina, Sanja Grđan**  
Other records of *Melibe viridis* (Kelaart, 1858) in the southeastern Adriatic Sea
- 6.3. **Vedrana Nerlović, Antonio Igljić, Ines Rebac**  
Influence of abiotic factors on the growth of the Mediterranean mussel *Mytilus galloprovincialis* nearby cage farming of European seabass
- 6.4. **Matija Konječić, Daniel Matulić**  
Controlled spawning of grass carp (*Ctenopharyngodon idella*) and common carp (*Cyprinus carpio*) in the Crna Mlaka fish farm
- 6.5. **Neška Vukšić Končevski, Ivica Budor, Tihomir Florijančić**  
Consumer attitudes, preferences, and perceptions regarding the consumption of game meat
- 6.6. **Marin Kovačić, Filip Jaman, Karolina Tucak, Zlatko Puškadija**  
Seasonal variability and repeatability of some Varroa resistance traits
- 6.7. **Svjetlana Krstulović Šifner, Toni Elezović, Igor Isajlović, Nedo Vrgoč, Stjepan Jukić Peladić**  
Cephalopods in the bottom trawl catches of the northern and central Adriatic Sea
- 6.8. **Raktim Sarmah, Rajdeep Dutta, Sarada Kanta Bhagabati, Oliver Barić, Tena Radočaj, Ana Gavrilović**  
Occurrence of microplastics in dried fish
- 6.9. **Karlo Maškarić, Josip Mikuš, Marina Brailo Šćepanović, Ana Bratoš Cetinić, Romina Kraus, Marijana Pećarević**  
Seasonal variations in the structure and abundance of the mesozooplankton community in the port of Rijeka



## Session: 4. Biodiversity Conservation

HALL :: ELAFITI 2

Moderators :: **Martina Grdiša, Tatjana Klepo**

- 11:30            **Nina Jeran, Martina Grdiša, Filip Varga, Zlatko Liber, Zlatko Šatović**  
Plant genetic resources conservation: case study of *Teucrium* spp. in Croatia
- 11:45            **Tatjana Klepo, Đani Benčić, Zlatko Liber, Frane Strikić, Angjelina Belaj, Nives Rajević, Zlatko Šatović**  
Synonymy and homonymy – main problems in conservation of olive genetic resources
- 11:55            **Filip Varga, Dora Krstulović, Ana Galov, Ana Štih, Dragica Šalamon**  
Genetic tools and approaches for conservation management of *Mauremys rivulata* in Croatia
- 12:05            **Ivica Ljubičić, Matea Vojinović**  
Native vascular flora of special forest vegetation reserve of Kočje (island of Korčula)
- 12:15            **Filip Jovanović, Ivica Ljubičić, Sandro Bogdanović**  
Flora of the Brijuni National Park
- Discussion**
- 12:30            **Session 4. Poster Session**  
HALL :: ELAFITI 1  
Questions and discussion on posters  
Moderators :: **Nina Jeran, Tonka Ninčević Runjić**

- 4.1. **Tonka Ninčević Runjić, Marijana Popović, Martina Grdiša, Zlatko Šatović**  
Chemical diversity of essential oil from lavandin (*Lavandula* × *intermedia* Emeric ex Loisel) landraces in Croatia
- 4.2. **Rebeka Aszalósné Balogh, Edit Farkas, László Lőkös, Gábor Matus**  
Cryptogams in dynamics of sandy grasslands: specific response to grazing exclosure
- 4.3. **Ante Rupić, Magdalena Brener, Daniel Krstonošić, Marija Pandža, Željko Škvorc**  
Plant diversity and plant invasions across different habitats of Murter Island (Croatia)
- 4.4. **Darija Lemic, Helena Viric Gasparic, Ivana Pajač Živković, Raphael DeCock, Katarina M. Mikac**  
Identification of firefly species in Croatia and their morphological characteristics
- 4.5. **Martina Grdiša, Filip Varga, Klaudija Carović-Stanko, Tonka Ninčević Runjić, Zlatko Šatović**  
Conservation and sustainable use of genetic resources of medicinal and aromatic plants in Croatia
- 4.6. **Ana Đanić, Nela Jantol, Lovro Turkalj, Martina Šašić Kljajo, Zrinka Mesić**  
The application of the EMBAL methodology to assess grasslands of high natural value
- 4.7. **Monika Vidak, Ivana Brezak, Zlatko Šatović, Boris Lazarević, Klaudija Carović-Stanko**  
Germination of *Salvia sclarea* L. accessions from the Collection of Medicinal and Aromatic Plants

## **Session: 2. Agricultural Economics and Rural Development**

HALL :: ELAFITI 4

Moderators :: **Tihana Sudarić, Vesna Očić**

- 14:00            **Ornella Mikuš, Dora Brkljačić, Mateja Jež Rogelj, Lari Hadelan, Tihana Kovačićek**  
Possible effects of the European Green Deal on the agricultural sector
- 14:15            **Edvin Zhllima**  
Application of the LEADER Approach in Western Balkan Countries - Challenges and opportunities in the framework of the regional cooperation and EU integration perspective
- 14:25            **Tomislav Vukina, Casey Rozowski**  
Production Quotas, Competition and Farm Values
- 14:35            **Danijela Glavan, Nataša Bokan, Biljana Kulišić, Lari Hadelan**  
Bioeconomy and rural development: actors and potential
- 14:45            **Maja Kožar, Matej Bedrač, Sara Bele**  
Proposal of farm-level indicators for assessment of agricultural sustainability - case of Slovenia
- 14:55            **Branka Šakić Bobić, Zoran Grgić, Vesna Očić, Krunoslav Zmaić, Danijel Jug**  
Cost-benefit analysis of conservation soil tillage
- 15:05            **Marin Čagalj, Dragan Divjak, Damir Matić, Antonio Morić-Španić**  
The significance and economic role of Earth observation (EO) data in the agricultural development of the central Dalmatian islands
- Discussion**
- 15:15            Coffee Break

Moderators :: **Ornella Mikuš, Krunoslav Zmaić**

- 15:45           **Ben Moljk, Tanja Travnikar**  
The potential of using databases for monitoring economic indicators on an agricultural farm – Slovenia example
- 15:55           **Bruno Škrinjarić, Josip Juračak, Marin Kukoč**  
Assessing the short-term impact of rural development grants in Croatia using a kvazi-experimental approach
- 16:05           **Vesna Očić, Ornella Mikuš, Mateja Jež Rogelj, Kristina Batelja Lodeta, Zoran Grgić, Branka Šakić Bobić**  
Economic efficiency of perennial plantations in Croatia using the FADN system
- 16:15           **Ivan Žeravica, Ivana Paladin Soče, Iva Mračić Raič, Mara Marić**  
Trends in agricultural production in the Dubrovnik-Neretva County in the COVID-19 pandemic years 2019-2021
- 16:25           **Domagoj Mikulić, Sara Mikrut Vunjak, Brigita Hengl, Darja Sokolić**  
Consumer attitudes towards the origin of bakery products in Croatia
- 16:35           **Sanja Jelić Milković, Ružica Lončarić, Igor Kralik, Ana Crnčan, Jelena Kristić, Tea Januš**  
Respondents' attitudes towards traditional meat processing in Slavonia and Baranja
- 16:45           **Damir Kovačić, Ante Kraljević, Marija Cerjak**  
Positioning of craft lager beer with the method of multidimensional scaling

**Discussion**

17:10

## **Session 2. Poster Session**

HALL :: ELAFITI 1

Questions and discussion on posters

Moderators :: **Ružica Lončarić, Branka Šakić Bobić**

- 2.1. **Tihana Sudarić, Krešimir Žnidarec, Lucija Bencarić, Krunoslav Zmaić, David Kranjac**  
The impact of Chinese business on the agricultural and food products market
- 2.2. **Lari Hadelan, Matea Đapić, Magdalena Zrakić Sušac, Ornella Mikuš**  
Agricultural and food products of Lika-Senj County according to aggregated agricultural income
- 2.3. **Alina Badulescu, Daniel Badulescu, Elena Herte, Simona Ardelean**  
Opportunities, challenges, and limits in rural green tourism in Romania. Survey-based research
- 2.4. **Daniel Badulescu, Alina Badulescu, Ramona Simut, Dorin Bac**  
The impact of perceived difficulties on the SMEs in the rural areas of Romania
- 2.5. **David Kranjac, Krunoslav Zmaić, Tihana Sudarić, Lucija Bencarić, Maja Petrač, Luka Turalija**  
Outlook on Croatian corn market using a partial equilibrium model
- 2.6. **Darija Ivanković, Snježana Rebuš, Željka Borzan**  
The state and perspectives of health tourism in the Osijek-Baranja County

- 2.7. **Sabahudin Bajramović, Aleksandra Martinovska Stojcheska, Ana Kotevska, Ivana Janeska Stamenovska, Dragi Dimitrievski, Edvin Zhllima, Željko Vaško, Mihone Kerolli Mustafa, Milan Marković, Vlado Kovačević i Ahmet Ali Koç**  
Agricultural policy development in EU pre-accession countries

**Session: 5.1. Vegetable Growing, Ornamental, Medicinal and Aromatic Plants**

HALL :: ELEFITI 3

Moderators :: **Sanja Fabek Uher, Mihael Kušen**

- 14:00 **Ivana Mezeyová, Alžbeta Hegedúsová, Tatiana Jaloviarová, Oliver Firkaľ, Ján Mezey**  
Selected parameters of carrot juice depending on the foliar application of selenium
- 14:15 **Miroslav Šlosár, Júlia Fabianová**  
Yield and quality of turnip after application of soil biostimulant 'Agriful'
- 14:25 **Nina Išić, Dean Ban, Nikola Major, Marta Sivec, Smiljana Goreta Ban**  
Drought impact on kale landraces through agromorphological parameters
- 14:35 **Marta Sivec, Nina Išić, Tvrtko Karlo Kovačević, Dean Ban, Nikola Major, Smiljana Goreta Ban**  
Agronomic potential and nutritional characterization of open-field cultivated purslane

- 14:45                    **Tamara Brlek, Sanja Fabek Uher, Sanja Slunjski, Sanja Radman, Nevena Opačić**  
Microelements content of broccoli, leek and red beet microgreens
- 14:55                    **Nevena Opačić, Sanja Radman, Božidar Benko, Nina Toth, Mia Dujmović, Jana Šic Žlabur**  
Agronomic traits of hydroponically grown nettle under controlled water stress conditions
- Discussion**
- 15:15                    Coffee Break
- 15:45                    **Sanja Fabek Uher, Petra Kobasić, Nina Toth, Nevena Opačić, Božidar Benko, Sanja Radman**  
The effect of sowing density on morphological traits and yield of hydroponically grown spinach
- 15:55                    **Mihael Kušen, Tatjana Prebeg, Lucija Erceg, Monika Zovko, Miroslav Poje, Vesna Židovec**  
The influence of irrigation on growth and development of potted *Catharanthus roseus*
- 16:05                    **Mihael Kušen, Andrea Bušurelo, Dubravka Dujmović Purgar, Martina Skendrović Babojelić, Vesna Židovec**  
Traditional and modern yards' horticultural flora of Ludbreg Podravina
- Discussion**

16:30

## Session 5.1. Poster Session

HALL :: ELAFITI 1

Questions and discussion on posters

Moderators :: **Vesna Židovec, Nevena Opačić**

- 5.2.1. **Péter Ragályi, Anita Szabó, Orsolya Szécsy, Nóra Szűcs-Vásárhelyi, Nikolett Uzinger, Péter Dobosy, Gyula Záray, Zdenko Lončarić, Andrijana Rebekić, Márk Rékási**  
Effect of biofortification on dwarf french bean, pea and tomato with selenium enriched irrigation
- 5.2.2. **Nina Toth, Petra Borovec, Sanja Kajić, Sanja Fabek Uher, Sanja Sikora**  
Morphological properties and yield of chickpea depending on rhizobial inoculation and intercropping with black cumin
- 5.2.3. **Alena Andrejiová, Alžbeta Hegedúsová, Marcel Golian, Ján Farkaš, Matej Sivok**  
Influence of selected biostimulants on quantitative and qualitative parameters of pepper (*Capsicum annuum* L.)
- 5.2.4. **Božidar Benko, Maja Mičetić, Ivana Periša, Marija Tkalčević, Sanja Fabek Uher, Nevena Opačić**  
Lamb's lettuce morphology under different glass coverings
- 5.2.5. **Mia Dujmović, Nevena Opačić, Sanja Radman, Sanja Fabek Uher, Sandra Voča, Jana Šic Žlabur**  
Accumulation of stinging nettle polyphenols as a response to drought stress



- 5.2.6. **Marko Vinceković, Slaven Jurić, Jesus Clemente, Manuela Panić, Ivana Radojčić Redovniković**  
A green strategy to isolate bioactive extracts from wild edible plants
- 5.2.7. **Mihaela Britvec**  
Wild geophytes in Croatian vascular flora and its potential use in sustainable horticulture
- 5.2.8. **Pankaj Kumar, Vinod Kumar, Ivan Širić**  
Sustainable bioconversion of wetland plant waste into wealth: proximate, biochemical, and nutrient characterization of cultivated *Pleurotus florida* mushroom

### **Session: 5.3. Crop production**

HALL :: ELAFITI 2

Moderators :: **Hrvoje Kutnjak, Luka Brezinščak**

- 14:00 **Luka Drenjančević, Antonia Petrić, Tibor Heđi, Dragana Drkušić, Zvonimir Lalić, Marina Zorić**  
Effect of period of application and amount of nitrogen fertilizer on the protein content of wheat grain
- 14:15 **Ivana Varga, Ivan Kraus, Ana Perić, Paulina Krolo, Dario Iljkić**  
Industrial hemp yield components and stem chemical parameters in relation to presowing potassium application
- 14:25 **Đuro Lukić, Kristijan Puškarić, Domagoj Stepinac**  
BC maize hybrids yield in performance trials in 2022

- 14:35 **Vivien Pál, László Zsombik**  
Evaluation of green manures as a sustainable nutrient supply method in corn production
- 14:45 **László Zsombik, Vivien Pál**  
Evaluation of yield components of white lupine under different ecological conditions
- Discussion**
- 15:15 **Coffee Break**
- 15:45 **Session 5.3. :: Poster Session**  
HALL :: ELAFITI 1  
Questions and discussion on posters  
Moderators :: **Hrvoje Kutnjak, Luka Brezinščak**
- 5.3.1. **Anita Szabó, Péter Csathó, Márk Rékási, Péter Ragályi, Orsolya Szécsy, Nóra Szűcs-Vásárhelyi, Nikolett Uzinger, Ružica Lončarić, Mariann Magyar, Sándor Koós, Béla Pirkó**  
Frequency distribution of Nitrogen balances in Hungarian crop production (2016-2018)
- 5.3.2. **Luka Brezinščak, Luka Drenjančević, Branimir Šimić, Zlatko Janječić, Dalibor Bedeković, Goran Kiš**  
Effect of nitrogen fertilization on production and quality parameters of spring barley
- 5.3.3. **Ivan Horvatić, Dubravko Maćešić, Zlatko Svečnjak, Martina Kovačević, Darko Uher**  
Influence of intercropping maize with climbing bean on forage yield and quality

- 5.3.4. **Josip Gmižić, Zlatko Svečnjak, Daniela Horvat, Marko Maričević, Dario Jareš**  
Grain yield and quality of commercial oat cultivars in Croatia
- 5.3.5. **Dario Iljkić, Marina Marinić, Mirta Rastija, Ivana Varga, Josip Stanić, Zvonko Zeko, Luka Drenjančević**  
The effect of biostimulators in conventional production on the yield and properties of wheat
- 5.3.6. **Ivana Varga, Anita Jonjić, Ivan Kraus, Manda Antunović, Dario Iljkić**  
Tradition of industrial hemp production in Croatia
- 5.3.7. **Iva Rojnica, Bojana Brozović, Irena Jug, Boris Đurđević, Marija Ravlić, Danijel Jug**  
The influence of conservation tillage systems on soybean weediness
- 5.3.8. **Mária Barboričová, Andrej Filaček, Marián Brestič**  
Testing the sensitivity of photosynthetic parameters to climatic extremes
- 5.3.9. **Andrej Filaček, Marek Živčák, Mária Barboričová**  
Nitrogen deficiency reveals the importance of alternative electron flows in photoprotection of distinct wheat genotypes
- 5.3.10. **Tahoora Batool Zargar, Oqba Basal, Szilvia Veres**  
Acetic acid as drought alleviator in different genotypes of sweet corn
- 5.3.11. **Péter Makleit**  
Cyclic hydroxamic acid content of wheat (*Triticum aestivum* L.) under biotic stresses
- 5.3.12. **Oqba Basal, Tahoora Batool Zargar, Szilvia Veres**  
Physiological responses of drought-stressed soybean to exogenous hydrogen peroxide application

## ► WEDNESDAY, 15 FEBRUARY, 2023

### Session 1. Agroecology, Organic Agriculture and Environment Protection

HALL :: ELAFITI 2

Moderators :: **Martina Bavec, Zdenko Lončarić, Aleksandra Perčin**

- 08:30                   **Zdenko Lončarić, Sanja Jelić Milković, Boris Ravnjak, Iva Nikolin, Katarina Perić, Franjo Nemet, Péter Ragályi, Orsolya Szécsy, Márk Rékási, Ružica Lončarić**  
Modeling the cost-effectiveness of direct replacement of mineral forms of N, P and K with organic fertilizers
- 08:45                   **Igor Bogunović, Ivan Dugan, Paulo Pereira, Ivica Kisić**  
Tillage, biochar and farmyard manure impact soil physical properties and maize yields on Cambisols in Croatia
- 08:55                   **Kisić Ivica, Jurina Dalibor, Galić Marija, Bogunović Igor, Perčin Aleksandra, Ćorić Radica, Dugan Ivan**  
Effects of fallow and green manure on soil characteristics and yield of spring crops
- 09:05                   **Ivan Dugan, Paulo Pereira, Igor Bogunović**  
Conventional and conservation soil management impact on soil properties, runoff generation and element losses in horticultural cropland in Dalmatia (Croatia)
- 09:15                   **Martina Bavec, Martina Robačar, Manfred Jakop, Marion Champailler, Aleš Kolmanič, Franc Bavec, Kristina Ugrinović, Peter Dolničar, Vladimir Meglič**  
Testing varieties for organic production - some cases from vegetable and field crops production

- 09:25           **Martina Bavec, Martina Robačar, Nika Weber Cvelbar, Marion Champaviller, Tamara Korošec, Mario Lešnik, Andrej Pavšič, Franc Bavec**  
Inputs in organic agriculture – new in EU legislation and examples of area regulation in selected countries
- 09:35           **Dijana Posavec, Mario Tomiša, Ivica Kisić, Bojan Šarkanj**  
The necessity to diversify regional labeling of biodynamic products
- 09:45           **Dragana Vidojevic, Darko Konjevic, Pandi Zdruli, Hamdija Civic, Mihajlo Markovic, Afrim Sharku, Mirko Knezevic, Dusko Mukaetov, Stanko Milic**  
Agri-environmental Policies in the Western Balkans: soil conservation
- Discussion**
- 10:00           Coffee Break

Moderators :: **Lucija Galić, Ivan Magdić, Márk Rékási**

- 10:30           **Lucija Galić, Vlatko Galić, Vladimir Ivezić, Vladimir Zebec, Jurica Jović, Mirha Đikić, Adrijana Filipović, Maja Manojlović, Åsgeir Rossebø Almås, Zdenko Lončarić**  
Bioavailability of soil Selenium in Southeast Europe can be modelled by soil properties
- 10:40           **Lovro Vukadinović, Domagoj Šimić, Vlatko Galić**  
The link between growth crisis and soil cadmium contamination in maize

- 10:50            **Lóránt Szőke, Brigitta Tóth, Tomislav Javornik, Boris Lazarević**  
Multispectral assessment of aluminium toxicity on corn
- 11:00            **Antonio Viduka, Tomislav Karažija, Goran Fruk, Martina Skendrović Babojelić, Ana Marija Antolković, Rea Vrtdodušić, Mihaela Šatvar Vrbanić, Zoran Grgić, Marko Petek**  
Reliability of visual diagnostics in determining iron deficiency on apple leaves in comparison with chemical analysis
- 11:10            **Jelena Ravlić, Miroslav, Tihana Teklić, Andrijana Rebekić, Tomislav Vinković**  
Influence of heat stress on chloroplast pigments and proline content in apple leaves
- 11:20            **Dario Iljić, Ivan Kraus, Ana Perić, Paulina Krolo, Ivana Varga, Mihaela Domazetović, Lucija Kraus**  
The influence of potassium fertilization on the properties of cereal straw for reinforcement of earthen architecture
- 11:30            **Marko Zorica, Tihana Teklić, Jelena Ravlić, Tomislav Kos, Vladimir Zebec, Miroslav Lisjak**  
The effect of physiologically active substances on the morphological properties of cherry fruit
- 11:40            **Nikolina Udiković Kolić, Josipa Kosić-Vukšić, Ana Puljko, Svjetlana Dekić Rozman**  
Carbapenem resistance in Croatian municipal wastewater
- 11:50            **Ivan Mustać, Dora Kutleša, Vilim Filipović, Lana Filipović, Vedran Krevh, Jasmina Defterdarović, Dragutin Petošić**  
Characteristics of groundwater dynamics in the Biđ-Bosut field
- Discussion**

14:00

## **Session 01. Poster Session**

HALL:: ELAFITI 1

Questions and discussion on posters

Moderators :: **Marina Bubalo Kovačić, Vladimir Zebec, Dario Iljkić**

- 1.1. **Violina Angelova**  
Heavy metals and nutrients in the leaves of Paulownia grown on polluted soils in Bulgaria
- 1.2. **Milena Andrišić, Hrvoje Hefer, Daniel Rašić, Ivana Zegnal, Domagoj Mikulić, Zdenko Lončarić**  
Optimization of soil management by modeling the availability of iron and zinc
- 1.3. **Renata Erhatic, Barbara Kokot, Siniša Srećec, Ivka Kvaternjak**  
Impact of environmental conditions on the growth, development and certain chemical properties of wild garlic (*Allium ursinum* L.)
- 1.4. **Adrijana Filipović, Ana Mandić, Elma Sefo**  
Leaf apparatus as stress indicator in *Lactuca sativa*
- 1.5. **Hrvoje Hefer, Milena Andrišić, Ivana Zegnal, Domagoj Mikulić, Daniel Rašić, Zdenko Lončarić**  
Agrochemical indicators of soil fertility in the Republic of Croatia in 2021
- 1.6. **Vladimir Ivezic, Vladimir Zebec, Jurica Jović, Meri Engler, Ingrid Olsen**  
Value creation and ecosystem services of European Seaweed industry by reducing and handling potentially toxic elements (PTE) from breeding to soil

- 1.7. **Renata Jarosz, Justyna Szerement, Jakub Mokrzycki, Lidia Marcińska-Mazur, Monika Mierzwa-Hersztek**  
Evaluation of enzymatic activity in soil after application of innovative fertilizer mixtures
- 1.8. **Lucia Jasenovská, Marek Živčák**  
Effects of light intensity and spectral composition on growth and selected compounds of garden cress
- 1.9. **Tomislav Javornik, Boris Lazarević, Kladija Carović-Stanko**  
Evaluation of drought tolerance among common bean landraces
- 1.10. **Irena Jug, Boris Đurđević, Bojana Brozović, Vesna Vukadinović, Ante Bubalo, Domagoj Veseli, Danijel Jug**  
Conservation tillage effects on soil health in maize production
- 1.11. **Tomislav Karažija, Jona Šurić, Josip Leto, Nikola Bilandžija, Neven Voća, Milan Poljak**  
The effect of sewage sludge application on soil chemical properties during the cultivation of energy crop Virginia Mallow (*Sida hermaphrodita* L.)
- 1.12. **Jelena Lončar, Tomislav Kos, Ana Gašparović Pinto, Slaven Zjalić**  
Two-year survey of the presence of aflatoxigenic and ochratoxigenic fungi in an experimental field in Osijek
- 1.13. **Zdenko Lončarić, Katarina Perić, Franjo Nemet, Péter Ragályi, Anita Szabó, Nóra Szűcs-Vásárhelyi, Vladimir Ivezic, Vladimir Zebec, Jurica Jović, Mirna Velki**  
Vermicomposting of biofortified harvest residues into high-quality organic fertilizers



- 1.14. **Zdenko Lončarić, Jurica Jović, Vladimir Zebec, Vladimir Ivezic, Melani Abadžić, Marina Katalenić, Valentina Prakaturović, Domagoj Rastija, Josipa Rupčić, Iva Nikolin, Suzana Kristek**  
Impact of microbial bioagents application and mineral fertilization on wheat yield
- 1.15. **Zdenko Lončarić, Suzana Kristek, Vladimir Zebec, Vladimir Ivezic, Dario Iljkić, Melani Abadžić, Marina Katalenić, Iva Nikolin, Josipa Jantoš, Darko Kerovec, Jurica Jović**  
Maize yield after microbial bioagents application under different fertilization
- 1.16. **Ivan Magdić, Vilim Filipović, Stjepan Husnjak**  
Influence of less permeable subsurface horizon of Pseudogley on grapevine root distribution
- 1.17. **Monika Mierzwa-Hersztek, Renata Jarosz, Justyna Szerement, Jakub Morzycki, Lidia Marcińska-Mazur**  
Transformations of organic matter in soil after application of mineral-organic mixtures with the addition of zeolite-vermiculite composite
- 1.18. **Pave Ninčević, Ivana Pajač Živković, Mario Bjeliš, Helena Virić Gašparić, Darija Lemić**  
Influence of the plant host on the variability of the invasive Mediterranean fruit fly
- 1.19. **Aleksandra Perčin, Željka Zgorelec, Ivana Šestak, Marina Baričević, Milan Mesić**  
Isotopic signatures of nitrogen in selected soils of Croatia
- 1.20. **Blaž Petek, Romana Marinšek Logar**  
Isolation and characterization of a highly active keratinase from *Bacillus mycoides* S3021 with promising potential for waste sheep wool processing

- 1.21. **Ana Puljko, Svjetlana Dekić Rozman, Nikolina Udiković-Kolić**  
Extended-spectrum  $\beta$ -lactamase producing *Enterobacterales* from hospital wastewater in Croatia
- 1.22. **Lucija Rajčić, Josip Leto, Hrvoje Kutnjak**  
An insight into phenological dynamics of karst pasture after controlled burning – a case study from Dinara Mountains
- 1.23. **Márk Rékási, Orsolya Szécsy, Anita Szabó, Nóra Szűcs-Vásárhelyi, Nikolett Uzinger, Zdenko Lončarić, Péter Ragályi**  
Effect of earthworms on the decomposition of TPH compounds in sewage sludge compost
- 1.24. **Jasmina Rinkovec, Gordana Pehneć, Borna Bednjanec, Željka Zgorelec**  
Platinum, palladium and rhodium in Zagreb air, soil and vegetation
- 1.25. **Rubinić Vedran, Jakopec Marija, Magdić Ivan**  
Usporedba audiovizualne procjene i analize karbonatnosti tla temeljem reakcije na klorovodičnu kiselinu
- 1.26. **Tea Sokač Cvetnić, Maja Benković, Davor Valinger, Tamara Jurina, Jasenka Gajdoš Kljusurić, Ivana Radojčić Redovniković, Ana Jurinjak Tušek**  
In-vessel composting of grape pomace
- 1.27. **Orsolya Szécsy, Nikolett Uzinger, Márk Rékási, Anita Szabó, Nóra Szűcs-Vásárhelyi, Adrijana Rebekić, Péter Ragályi**  
Correlations between fertilizer use and potentially toxic element content in Hungarian soils
- 1.28. **Nóra Szűcs-Vásárhelyi, Orsolya Szécsy, Márk Rékási, Anita Szabó, Vladimir Ivezic, Nikolett Uzinger, Péter Ragályi**  
Some soil safety aspects of organic fertilizer utilisation

- 1.29. **Ivana Šestak, Milan Mesić, Željka Zgorelec, Aleksandra Perčin**  
Spatio-temporal change of soil pH, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O content under variable mineral nitrogen fertilization
- 1.30. **Marko Vinceković, Mislav Majdak, Slaven Jurić, Katarina Sopko Stracenski, Iva Režič**  
Simultaneous encapsulation of two antimicrobial chemical agents in alginate/chitosan microparticles
- 1.31. **Ivana Vitasović-Kosić, Željka Zgorelec, Ivica Kisić**  
Natural restoration of flora on burned agricultural land - case study Biograd na Moru (Croatia)
- 1.32. **Ivana Zegnal, Hrvoje Hefer, Milena Andrišić, Daniel Rašić, Domagoj Mikulić, Zdenko Lončarić**  
Validation of model for prediction the available amount of Mn in the soils of eastern Croatia

## **Session 8: Food, Feed and Quality**

HALL :: ELAFITI 4

Moderators :: **Ivica Kos, Manuela Zadravec**

- 08:30 **Jelka Pleadin, Ana Vulić, Nina Kudumija, Nada Vahčić**  
Overview of mycotoxin occurrence in cereals: a ten-year Croatian survey
- 08:45 **Marija Duvnjak, Elena Čavlek, Kristina Kljak, Mirna Mrkonjić Fuka, Jasna Pintar, Dalibor Bedeković, Manuela Zadravec**  
Maize grain hardness influences faecal parameters and dry matter in vivo digestibility in pigeons

- 08:55            **Veronika Gunjević, Dora Zurak, Zlatko Svečnjak, Marija Duvnjak, Goran Kiš, Dalibor Bedeković, Zlatko Janječić, Vasil Pirgozliev, Darko Grbeša, Kristina Kljak**  
Carotenoid deposition efficiency in egg yolks of laying hens fed diets differing in maize hybrid
- 09:05            **Dora Zurak, Veronika Gunjević, Zlatko Svečnjak, Marija Duvnjak, Goran Kiš, Darko Grbeša, Kristina Kljak**  
Degradation kinetics of maize carotenoids during storage of grain and complete feeds of differing in commercial hybrids
- 09:15            **Darko Grbeša, Dora Zurak, Veronika Gunjević, Zlatko Svečnjak, Marija Duvnjak, Goran Kiš, Dalibor Bedeković, Zlatko Janječić, Vasil Prirgozliev, Kristina Kljak**  
Production characteristics and quality of eggs from laying hens fed diets differing in commercial maize hybrid
- 09:25            **Vladimir Margeta, Zdenko Bogović, Bruno Alexander Gantenbrink, Mirjana Petrović, Polonca Margeta, Žarko Radišić, Kristina Gvozdanović, Dalida Galović**  
Content of fatty acids in intramuscular fat and subcutaneous backfat in Black Slavonian pigs
- 09:35            **Dragan Brnić, Ines Škoko, Valentina Kunić, Jelena Prpić, Lorena Jemeršić**  
Viral contaminants of bivalve molluscan shellfish harvested from production areas in Croatia: the results of a three-year study
- 09:45            **Lea Pollak, Iva Ladan**  
Control of food supplements and food with hemp - analytics, legislation and impact on health
- Discussion**
- 10:00            Coffee Break

## Moderators :: **Nikolina Kelava Ugarković, Daniel Falta**

- 10:30            **Lea Pollak, Iva Ladan, Andrea Adanić Pajić**  
Functional and health properties of 10-HDA acid – a unique component of the royal jelly
- 10:45            **Canan Altınay, Nazlı Kanca**  
Some properties of kefir obtained from different ratios of pineapple juice-milk mixtures
- 10:55            **Attila Kiss, Erzsébet Karaffa, Károly Pál, Ferenc Peles**  
Comparative study on prebiotic activities of various dietary fibers on distinct probiotics
- 11:05            **Maja Benković, Filip Cigić, Davor Valinger, Ana Jurinjak Tušek, Tamara Jurina, Tea Sokač Cvetnić, Jasenka Gajdoš Kljusurić, Ivana Radojčić Redovniković**  
The use of grape pomace in food products – an overview
- 11:15            **Tea Agić, Maja Rečić, Dorotea Piškor, Marina Posavec, Dubravka Marija Kreković**  
Development of meat products with reduced amount of nitrites and nitrates
- 11:25            **Ivica Kos, Jelka Pleadin, Mateja Pećina, Darija Bendelja Ljoljić, Iva Dolenčić Špehar, Dalibor Bedeković, Goran Kiš, Milna Tudor Kalit, Zlatko Janječić, Ivan Širić, Ivan Vnučec**  
Application of *Staphylococcus carnosus* for nitrate reduction in production of semi-durable sausages
- 11:35            **Andrea Adanić Pajić, Lea Pollak**  
EU SCHOOL SCHEME: Attitudes of school children and their parents about the importance of milk in the diet

- 11:45           **Ante Ivanković, Edmondo Šuran, Gordan Šubara**  
Evaluation and gastronomic repositioning of beef from local cattle breeds
- 11:55           **Robert Čepela**  
Quality system in complete feed and premix factory Patent Co.
- 12:05           **Slađana Rumpf Tunjić**  
Is it possible to perform fast and reliable analytics in food and feed industry?

### **Discussion**

- 12:30           **Session 8. Poster Session**  
HALL :: ELAFITI 1  
Questions and discussion on posters  
Moderators :: **Marija Duvnjak, Andrea Adanić Pajić, Maja Benković, Vladimir Margeta**

- 8.1.           **Anica Bebek Markovinović, Dora Brdar, Irena Brčić Karačonji, Jurica Karlo, Dario Lasić, Predrag Putnik, Tomislav Bosiljkov, Danijela Bursać Kovačević**  
Strawberry tree fruit (*Arbutus unedo* L.) and 3D printing – Development of an innovative functional food product
- 8.2.           **Klara Kraljić, Maja Jukić Špika, Katarina Filipan, Edina Smajić, Mia Tokić, Sandra Balbino, Marko Obranović, Mirella Žanetić, Mia Ivanov, Zoran Herceg, Igor Stuparević, Valerija Majetić Germek, Dubravka Škevin**  
Influence of flash thermal treatment on volatile compounds of virgin olive oil

- 8.3. **Stefani Levak, Ivica Kos, Samir Kalit, Iva Dolenčić Špehar, Darija Bendelja Ljoljić, Ante Rako, Milna Tudor Kalit**  
Sensory properties of semi-hard goat cheese at different ripening times in oil
- 8.4. **Zlata Kralik, Manuela Košević, Olivera Galović, Helena Križanec**  
Comparative analysis of cholesterol and fatty acid content in hens and pheasant eggs
- 8.5. **Tea Sokač Cvetnić, Davor Valinger, Filip Cigić, Ana Jurinjak Tušek, Tamara Jurina, Jasenka Gajdoš Kljusurić, Ivana Radojčić Redovniković, Maja Benković**  
Applicability of near-infrared spectroscopy in the analysis of macronutrient contents of grape pomace and grape pomace mixtures
- 8.6. **Nikolina Kajić, Jurislav Babić, Antun Jozinović, Drago Šubarić, Đurđica Ačkar, Borislav Miličević, Ante Lončarić, Mario Kovač, Zdenko Lončarić**  
The chemical properties of corn extrudates enriched with agrofortified wheat
- 8.7. **Hrvoje Kutnjak, Lucija Rajčić, Ivana Čačić, Josip Leto**  
Estimation of forage value of grasslands of the Dinara Mountains based on geospatial data collection
- 8.8. **Manuela Zadravec, Vida Vertuš, Kristina Kljak, Marija Duvnjak**  
Changes in butyric acid bacteria spore concentration during alfalfa silage aeration
- 8.9. **Ivan Vnučec, Paula Novina, Ivica Kos, Zvonimir Prpić, Darija Bendelja Ljoljić, Zlatko Janječić, Dalibor Bedeković, Ivan Širić**  
Carcass traits and meat colour of adult Cres sheep

- 8.10. **Nikolina Kelava Ugarković, Josipa Hadrović, Josip Malnar, Zvonimir Prpić, Miljenko Konjačić**  
Quality and nutritional properties of venison
- 8.11. **Jan Slováček, Šárka Nedomová, Miroslav Jůzl, Anna Seidlová, Ondřej Mikulka**  
A comparative study on the selected quality properties of frankfurters with wild nutria meat
- 8.12. **Sandra Balbino, Daniela Cvitkovic, Verica Dragović-Uzelac**  
Modelling of tailor-made solvents for sequential extraction of bioactive compounds from myrtle leaves
- 8.13. **Milna Tudor Kalit, Dana Janda, Iva Dolenčić Špehar, Darija Bendelja Ljoljić, Samir Kalit**  
Bioactive peptides from cheese
- 8.14. **Ondřej Šťastník, Jakub Novotný, Jan Slováček, Helena Pluháčková, Šárka Nedomová, Miroslav Jůzl, Eva Mrkvicová, Leoš Pavlata**  
The effect of caraway (*Carum carvi* L.) on the performance parameters and quality traits of broiler chickens meat
- 8.15. **Darija Bendelja Ljoljić, Iva Dolenčić Špehar, Milna Tudor Kalit, Ivana Rajnović, Nataša Hulak, Ivica Kos, Ivan Vnućec, Saša Prđun, Samir Kalit**  
The potential of using *Saccharomyces boulardii* yeast in fermented milk products
- 8.16. **Iva Dolenčić Špehar, Sandra Mandinić, Darija Bendelja Ljoljić, Milna Tudor Kalit, Šimun Zamberlin, Ivica Kos, Samir Kalit**  
Probiotic dairy-based desserts with cocoa addition
- 8.17. **Gábor Csatári, Szilvia Kovács**  
Analysis of components in the press fibre of lucerne (*Medicago sativa* L.) varieties



- 8.18. **Ante Galić, Stjepan Pliestić, Sebastian Đurić, Mia Dujmović, Sandra Voća, Jana Šic Žlabur**  
The influence of processing method on the content of bioactive compounds in raspberry powder
- 8.19. **Nikolina Škreblin, Željka Mesić, Miljenko Konjačić, Nikolina Kelava Ugarković, Zvonimir Prpić**  
Consumer habits regarding goat's milk and dairy products
- 8.20. **Miroslav Jůzl, Mihaela Sačić, Helga Medić, Hong Phuong Luongová, Jan Slováček, Markéta Janík Piechowiczová, Milena Matejovičová, Radka Langová, Eva Mrkvicová**  
Effect of the addition of brown wakame seaweed (*Undaria pinnatifida*) on the quality of dried cooked and dried fermented sausages
- 8.21. **Markéta Janík Piechowiczová, Tereza Burianová, Kamila Řehůrková, Ladislava Ilčíková, Adéla Mátlová, Miroslav Jůzl**  
Tradition versus reformulation: A case study on Czechoslovak sausage recipe „Gothajský salám“
- 8.22. **Lea Pollak, Monica Darrer, Iva Ladan, Nataša Mikulec**  
Food fortification – milk, vitamin D and impact on health
- 8.23. **Mateja Pečina, Hrvoje Maturanec, Darija Bendelja Ljoljić, Iva Dolenčić Špehar, Dalibor Bedeković, Goran Kiš, Milna Tudor Kalit, Ivan Vnučec, Ivica Kos**  
Effect of dry ageing duration on the physical and sensory properties of beef burgers
- 8.24. **Jog Raj, Hunor Farkaš, Svetlana Čujić, Zdenka Jakovčević, Robert Čepela, Marko Vasiljević**  
Multiple mycotoxins detected in corn harvested in 2022 from Southeast Europe

## **Session: 9. Precision Farming and Sustainable Bio-based Production**

HALL :: ELAFITI 4

Moderators :: **Kurt Rosentrater, Vanja Jurišić, Tajana Radić**

- 08:30           **Kurt Rosentrater**  
Towards a greater understanding of environmental and cost impacts using life cycle assessment and techno-economic analysis - Increasing circularity throughout farms, factories, and supply chains
- 08:45           **Tomislav Ivanković, Mislav Kontek, Karlo Špelić, Dominik Bušić, Vanja Jurišić**  
*Miscanthus x giganteus* and *Arundo donax* L. as substrates for augmented biogas production
- 09:00           **Tajana Radić, Dario Gazić, Ramona Franić, Ines Pohajda, Tihana Kovačiček, Mario Njavro, Vanja Jurišić, Ana Matin**  
Bioeconomy in the new Programming period 2023-2027
- 09:10           **Vanja Jurišić, Margareta Đumbir, Karlo Špelić, Mislav Kontek, Mateja Grubor, Ana Matin**  
Sustainable biogas production as a source of biogenic CO<sub>2</sub>
- 09:20           **Mladen Jurišić, Ivan Plaščak, Dorijan Radočaj, Željko Barač, Tomislav Haban, Domagoj Zimmer**  
Biogas and electricity production process in Vinka biogas plant in Vukovar-Srijem County
- 09:30           **Ana Matin, Tajana Krička, Mateja Grubor, Mislav Kontek, Karlo Špelić, Ivana Tomić, Vanja Jurišić**  
The possibility of using *Arundo donax* L. as raw material for biogas production considering the harvest time

09:40                    **Karlo Špelić, Ana Matin, Nikola Bilandžija, Ivana Živković, Tajana Krička, Vanja Jurišić**  
Biogas production from corn stalk as a by-product of ensiling the corn cob mix

**Discussion**

10:00                    Coffee Break

Moderators :: **Ana Matin, Mateja Grubor, Ana-Marija Špicnagel**

10:30                    **Natalija Vugrin, Ana-Marija Špicnagel**  
FERTIMANURE project - SWOT analysis of bio-based fertilisers created as part of the project

10:40                    **Mateja Grubor, Nikola Bilandžija, Ana Matin, Darija Bilandžija, Vanja Jurišić, Tajana Krička**  
Energy properties of barley biomass depending on agroclimatic conditions

10:50                    **Anamarija Gudelj - Velaga, Nikola Bilandžija, Mateja Grubor, Josip Leto, Tajana Krička**  
Influence of a dry year on the Virginia mallow energy properties

11:00                    **Božidar Matin, Alen Đurović, Nikola Bilandžija, Alan Antonović**  
Use of agricultural biomass as raw material for pellets and briquettes

11:10                    **Anamarija Peter, Jona Šurić, Dubravka Dujmović Purgar, Ivan Brandić, Neven Voća**  
Impacts, threats, and potential benefits of invasive plant species

11:20 **Ana-Marija Špicnagel**  
FairShare project – e-OPG digital platform for farmers  
**Discussion**

Moderators :: **Ivan Brandić, Anamarija Peter, Jona Šurić**

14:00 **Jona Šurić, Anamarija Peter, Jana Šic Žlabur, Ivan Brandić, Neven Voća**  
Causes and ways to avoid food waste

14:10 **Ivan Brandić, Lato Pezo, Jana Šic Žlabur, Anamarija Peter, Jona Šurić, Neven Voća**  
Application of artificial neural network models to predict food waste in the European Union

14:20 **Dora Maričić, Ana-Marija Špicnagel**  
CAPTIVATE supports farmers in the implementation of the Common Agricultural Policy's elements of green architecture

14:30 **Barbara Đukić, Ana-Marija Špicnagel**  
Attitude of stakeholders regarding the application of Nutri-2-Cycle project priority technologies in Croatia

14:40 **Ana Poštek, Luka Brezinščak, Ivica Kisić**  
Tracking phenological changes in different crops using unmanned aerial vehicle

14:50 **Dana Čirjak, Ivan Aleksi, Ivana Miklečić, Darija Lemić, Tomislav Kos, Ana Marija Antolković, Rea Vrtodušić, Antonio Viduka, Ivana Pajač Živković**  
Development of an automatic monitoring system for pear leaf blister moth and its damage using artificial neural networks

**Discussion**

15:15

## **Session 9. Poster Session**

HALL :: ELAFITI 1

Questions and discussion on posters

Moderators :: **Ivan Brandić, Anamarija Peter, Jona Šurić**

- 9.1. **Ivana Tomić, Karlo Špelić, Vanja Jurišić, Ana Matin, Tajana Krička**  
The influence of fermentation on the proportion of lignin in the silage production
- 9.2. **Marko Obranović, Anamarija Krizanac, Klara Kraljić, Vanja Jurišić**  
Possibilities of energy utilization of CBD extraction by-product
- 9.3. **Andela Horvat, Milivoj Radojčin, Al Afif Rafat, Christoph Pfeifer, Vanja Jurišić**  
Hydrothermal carbonization of energy crops
- 9.4. **Filip Šuljak, Ivan Širić, Monika Zovko, Marko Reljić, Nikola Španić, Marina Bubalo Kovačić**  
Strength properties of material based on oyster mushroom (*Pleurotus ostreatus*) mycelium
- 9.5. **Döme Barna**  
Changes in artificial algal-bacterial communities at different CO<sub>2</sub> concentrations
- 9.6. **Božica Japundžić-Palenkić, Nataša Romanjek Fajdetić, Robert Benković, Monika Marković**  
Non-thermal plasma effect on growth of agricultural plants
- 9.7. **Ana Regović, Sandra Skendžić, Darija Lemić, Marko Maričević, Vinko Lešić, Monika Zovko**  
Vegetation indices as tools for wheat yield evaluation

## **Session: 7. Animal Science**

HALL :: ASIMON

Moderators :: **Jelena Ramljak, Mirjana Baban, Miljenko Konjačić**

- 14:00           **Antun Kostelić**  
Analysis of the current situation and possibilities of improving sheep breeding on Pag
- 14:15           **Ante Kasap, Zvonimir Mijadžiković, Bartol Smutni, Boro Mioč, Marija Špehar**  
Estimation of inbreeding coefficient and generation interval in Pag Sheep – baseline for development of optimum contribution selection
- 14:25           **Polonca Margeta, Maja Maurić Maljković, Damir Jakšić**  
Mitochondrial DNA analysis in livestock breeding
- 14:35           **Valentino Držaić, Jelena Ramljak, Ante Kasap, Ivan Širić, Marija Jukić Grbavac, Boro Mioč**  
MTNR1A gene polymorphisms in Dalmatian pramenka
- 14:45           **Jelena Ramljak, Marija Špehar, Valentino Držaić, Ante Kasap**  
Genomic patterns of homozygosity in Istrian sheep
- 14:55           **Goran Lipavić, Nikola Raguž, Krešimir Mastanjević, Žarko Radišić, Ras Lužaić, Boris Lukić**  
Variability of intramuscular fat and fatty acids in Black Slavonian Pig
- 15:05           **Ante Ivanković, Nikolina Kelava Ugarković, Giovanni Bittante, Mateja Pečina, Miljenko Konjačić**  
Comparison of Holstein x Belgian Blue and Holstein x Piedmontese crossbreds in beef production: growth, carcass and meat traits

- 15:15                    **Filip Jelenić, Zlatko Janječić, Goran Kiš, Marica Dražić, Gordana Duvnjak, Mihael Janječić, Ivica Kos, Ivan Širić, Dalibor Bedeković**
- Meat production indicators of roosters of Posavska crested hen
- Discussion**
- 15:30                    Coffee Break
- 16:00                    **Marko Vinceković, Nataša Mikulec, Fabijan Oštarić, Slaven Jurić, Kristina Vlahoviček Kahlina, Hana Zelić, Marta Kiš, Nevijo Zdolec Katarina Sopko Stracenski**
- Encapsulation of *Lactiplantibacillus plantarum* in alginate microspheres
- 16:10                    **Nataša Mikulec, Fabijan Oštarić, Dijana Plavljančić, Iva Horvat Kesić, Jasminka Špoljarić, Nevijo Zdolec, Vlatka Čubrić Čurik, Marko Vinceković**
- The application of microencapsulated rennet and autochthonous dairy cultures in the “Paški sir” cheese production
- 16:20                    **Alen Džidić, Dragica Šalomon**
- Teat-cup removal strategies for robotic milking
- 16:30                    **Vice Čuljak, Jakov Jurčević, Dalida Galović, Kristina Gvozdanović, Goran Kušec, Vladimir Margeta**
- Assessment of Immunoglobulin G (IgG) content in sow colostrum using BRIX refractometer
- Discussion**

17:00

## **Session 7. Poster Session**

HALL :: ELAFITI 1

Questions and discussion on posters

Moderators :: **Nikola Raguž, Dubravko Škorput, Boris Lukić**

- 7.1. **Petra Prlić, Mirjana Baban**  
Dressage riding: the end of knowledge is the beginning of abuse of horses
- 7.2. **Zvonko Antunović, Željka Klir Šalavardić, Boro Mioč, Valentino Držaić, Ivan Širić, Mislav Đidara, Krunoslav Zmaić, Josip Novoselec**  
Concentrations of Fe, Zn and Cu in the blood of Lacaune sheep in the early stage of lactation
- 7.3. **Marcela Šperanda, Matija Domaćinović, Jakov Jurčević, Martina Pavlič, Saša Lončar, Mislav Đidara**  
Influence of Selenium addition from different sources on immunoglobulin concentration in plasma of weaned piglets
- 7.4. **Maja Prevolnik Povše, Tanja Voga, Doroteja Kovše, Janko Skok, Manja Zupan Šemrov**  
Assessment of risk factors for tail biting in pig fatteners: Slovenian example
- 7.5. **Škorput Dubravko, Špehar Marija, Luković Zoran**  
Application of optimal contribution selection in Landrace and Large white pigs in Croatia
- 7.6. **Sara Mišan, Antun Kostelić, Zoran Luković, Bruna Tariba, Jelena Ramljak, Sven Menčik, Matija Brajković, Krešimir Salajpal**  
Induction of farrowing using synthetic analogues of prostaglandin F<sub>2α</sub>



- 7.7. **Katarina Buha, Valentina Prokopović, Hrvoje Maturenec, Nikolina Kelava Ugarković, Zvonimir Prpić, Ante Ivanković, Miljenko Konjačić**  
Breeding technology, reproductive and health traits of the Angus breed in the cow-calf system
- 7.8. **Zlatko Janječić, Mirta Balenović, Goran Kiš, Mihael Janječić, Ivica Kos, Ivan Širić, Ivan Vnučec, Dalibor Bedeković**  
The effects of industrial hemp as a phytobiotic on the production indicators of broiler chickens
- 7.9. **Gordana Kralik, Zlata Kralik**  
The relationship between chicken breast meat color and pH, drip loss and fatty acid profile
- 7.10. **Maja Prevolnik Povše, Anže Hajšek, Janez Jeretina, Anton Hohler, Dejan Škorjanc**  
The effect of season and dairy herd productivity on the milk urea content
- 7.11. **Tamara Papović, Denis Kučević, Snežana Trivunović, Dobrila Janković, Ksenija Čobanović**  
Urea content in milk as an indicator of ammonia emission from dairy cows
- 7.12. **Draženko Budimir**  
Nutritional value of whey after the production of Trappist cheese
- 7.13. **Mario Shihabi, Luboš Vostry, Vlatka Cubric-Curik, Maja Ferencaković, Ino Curik**  
Comparative estimation of inbreeding on the X chromosome in three native Croatian cattle breeds

- 7.14. **Krešimir Bošnjak, Marina Vranić, Tomislav Mašek, Kristina Starčević, Marina Brčić, Mihaela Turković**  
The effect of nitrogen fertilization on the digestibility and metabolic energy content of forage from indigenous semi-natural pasture
- 7.15. **Krešimir Bošnjak, Marina Vranić, Darko Uher, Tomislav Mašek, Kristina Starčević, Zvezdana Ravlić**  
Yield and quality of clover-grass mixture of red clover and orchardgrass in different agroecological conditions
- 7.16. **Ivana Prakatur, Matija Domaćinović, Mirela Pavić Vulinović, Danijela Samac, Mario Ronta, Dalida Galović, Aleksandra Lesjak**  
The connection between silage quality and animal health
- 7.17. **Goran Mikec, Marijana Vrbanić Igrić, Marija Jakuš Hrestak**  
Drones in animal husbandry
- 7.18. **Marko Vinceković, Nataša Mikulec, Fabijan Oštarić, Slaven Jurić, Kristina Vlahoviček Kahlina, Anamarija Aničić, Katarina Sopko Stracenski**  
Simultaneous encapsulation of dairy rennet and calcium ions in alginate microparticles

## Session 10. Plant protection

HALL :: BOKAR

Moderators :: **Edyta Đermić, Valentina Šoštarčić**

- 14:00           **Edyta Đermić, Maja Šulog, Katarina Martinko, Kristina Batelja Lodeta, Lovorka Vujić, Damir Đermić**  
Inhibitory effect of pawpaw (*Asimina triloba* L.) extracts on bacteria from genera *Pseudomonas* and *Escherichia*
- 14:15           **Valentina Šoštarčić, Roberta Masin, Josip Lakić, Vedran Rubinić, Maja Šćepanović**  
Emergence dynamics of summer weed species from artificial seed bank
- 14:25           **Šćepanović, Maja, Šoštarčić, Valentina; Milanović-Litre, Ana; Lakić, Josip; Brzoja, Dragojka; Barić, Klara**  
Resistant populations of Johnsongrass (*Sorghum halepense* L.) and common ragweed (*Ambrosia artemisiifolia* L.) in Croatia to ALS herbicides
- 14:35           **Renata Dejanović, Fani Bogat, Marko Kovačić, Hrvoje Sambolek, Darko Topolovac**  
Integrated weed control in maize: sustainable solution to control ALS resistant Johnsongrass in Croatia
- 14:45           **Laura Pismarović, Valentina Šoštarčić, Kristina Kljak, Maja Šćepanović**  
Inhibitory potential to *Ambrosia artemisiifolia* and maize selectivity to phenolic acids
- 14:55           **Tamara Siber, Helena Ereš, Angelina Dujković, Karolina Vrandečić, Slavko Grgić, Jasenka Čosić**  
Volatile effect of essential oils on the growth of *Rhizoctonia solani* and *Pyrenophora graminea*

- 15:05 **Elena Petrović, Karolina Vrandečić, Jasenka Ćosić, Ana Crnogorac, Sara Godena**  
The occurrence and presence of *Botryosphaeria dieback* of olive trees and fruits in Istria  
**Discussion**
- 15:30 Coffee break
- 16:00 **Tomislav Kos, Zoran Šikić, Ana Gašparović Pinto, Šime Marcelić, Šimun Kolega, Marko Zorica, Alen Dabčević**  
Reliability of capture the olive fly *Bactrocera oleae* (Rossi 1790) on yellow plates using visual data processing techniques
- 16:10 **Ivana Paladin Soče, Mladen Šimala**  
Current status of the quarantine pest *Aleurocanthus spiniferus* (Quaintance, 1903) (Hemiptera: Aleyrodidae) in Croatia
- 16:20 **Ivana Jakovljević, Ivana Majić, Ankica Sarajlić, Mirela Varga**  
Efficacy of Croatian entomopathogenic nematodes against pupa of olive fruit fly (*Bactrocera oleae*)
- 16:30 **Marija Polić Pasković, Šime Marcelić, Tomislav Kos, Nikola Major, Smiljana Goreta Ban, Mirjana Herak Ćustić, Igor Pasković**  
Role of Silicon foliar application in defence against jasmine moth in olive groves  
**Discussion**

17:00

## Session 10. Poster Session

HALL :: ELAFITI 1

Questions and discussion on posters

Moderators :: **Joško Kaliterna, Ivana Majić**

- 10.1. **Dora Majer, Vesna Rastija, Domagoj Šubarić, Ankica Sarajlić, Maja Molnar, Mario Komar, Ivana Majić**  
Effect of quinazolinones derivatives on greater wax moth (*Galleria mellonella* L.)
- 10.2. **Marija Sarić-Krsmanović, Teodora Tojić, Jelena Gajić Umiljendić, Rada Đurović-Pejčev, Tijana Đorđević, Ljiljana Radivojević, Dragana Božić, Sava Vrbničanin**  
Bio-herbicidal potential and chemical analysis of secondary metabolites of field dodder (*Cuscuta campestris* Yunck.)
- 10.3. **Marija Ravlić, Monika Marković, Renata Baličević, Eva-Lorena Pranjković, Željka Vinković, David Kranjac**  
Effect of water stress on allelopathic potential of petunia (*Petunia hybrida* L.)
- 10.4. **Ivan Juran, Hrvoje Filipović, Maja Čaćija, Dinka Grubišić, Tanja Gotlin Čuljak**  
Effect of essential oils on pollen beetle
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- 10.6. **Dinka Grubišić, Maja Čaćija, Ana Smolko, Ivanka Kartelo, Ivan Juran**  
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- 10.7. **Lilyana Koleva, Georgi Dimitrov**  
Monitoring and management of root-knot nematodes in solanaceae vegetable in Bulgaria

- 10.9. **Kaliterna, Joško; Martinko, Katarina; Polić Pasković, Marija; Marčelić, Šime; Vidović, Nikolina; Toth, Karla; Pasković, Igor**  
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- 10.10. **Maja Čačija, Martina Sliško, Sandra Ostojić, Martina Kadoić Balaško, Zrinka Drmić, Ivan Juran**  
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