

DAY 1 - TUESDAY, 3rd DECEMBER 2024, HOTEL INTERNATIONAL

CONFERENCE HALL MARKET

8.00-9.00	Registration
9.00-9.30	OPENING CEREMONY

CHAIRS: *T. Jakovljević, I. Radojčić Redovniković*

9.30-9.45	Robert Mavsar: Rethinking economic growth: how forests can lead us to a sustainable future, EFI - European Forest Institute
9.45-10.00	Elena Paoletti: IUFRO - The International Union of Forest Research Organizations

10.00-10.30	COFFEE BREAK
10.00-10.30	Poster presentations (SESSIONS A&B)

Lectures & Parallel sessions

CONFERENCE HALL MARKET1

SESSION A: ENVIRONMENT AND CLIMATE CHANGE

CHAIRS: *A. De Marco, N. Potočić*

10.30-11.00	Alessandra De Marco: Air pollution and climate change impacts on forests, ENEA, Italy
11.00-11.15	Justin Sentian: Assessing future isoprene emissions in Southeast Asia: climate change implications, Faculty of Science and Natural Resource, University Malaysia Sabah, Malaysia
11.15-11.30	Giuseppe Quaratiello: Exploiting hyperspectral data to predict photosynthesis and hydric status related-parameters and discriminate ozone (O₃) effects on grapevine (<i>Vitis vinifera</i> L.), Department of Agriculture, Food and Environment, University of Pisa, Italy
11.30-11.45	Claudia Pisuttu: Ozone application as a useful tool against crop diseases in pre- and post-harvest, Department of Agriculture, Food and Environment, University of Pisa, Italy
11.45-12.00	Ivan Limić: Ion fluxes in precipitation, throughfall, forest floor solution and topsoil solution in Aleppo pine forest, Institute for Adriatic Crops and Karst Reclamation, Croatia
12.00-12.15	Nataša Ravbar: Advancing groundwater recharge monitoring in karst aquifers: a holistic approach, ZRC SAZU, Karst Research Institute, Slovenia; UNESCO Chair on Karst Education, University of Nova Gorica, Slovenia
12.15-12.30	STRESSES - journal presentation by Jelena Romcevic, Journal Relations Specialist

CONFERENCE HALL MARKET2

SESSION B: SUSTAINABLE PRODUCTION OF FOOD

CHAIRS: P. Lozano, M. Brnčić

10.30-11.00	Roland Ludwig: Enzymes contributing to sustainable food production, University of Natural Resources and Life Sciences, Austria
11.00-11.20	Andreja Leboš Pavunc: Use of by-products in the production of new generation encapsulated probiotics, University of Zagreb Faculty of Food Technology and Biotechnology, Croatia
11.20-11.35	Marko Vinceković: Encapsulation of <i>Bifidobacterium animalis</i> subsp. <i>Lactis</i> into composite biopolymer microparticles, University of Zagreb Faculty of Agriculture, Croatia
11.35-11.50	Naiara Fernández: Microformulation as a tool to enhance the performance of ascorbic acid as a food preservative, iBET, Institute of Experimental Biology and Technology, Portugal
11.50-12.05	Filip Boratyński: Microbial synthesis of commercially important flavor and fragrance compounds, Department of Food Chemistry and Biocatalysis, Wrocław University of Environmental and Life Sciences, Poland
12.05-12.20	Filipa Burul: The olive moth (<i>Prays oleae</i> bern.) attraction to volatile compounds of olive canopy, Institute for Adriatic Crops and Karst Reclamation, Croatia
12.20-12.40	Antonela Ninčević Grassino: Nutritional profile of pumpkin pulp after ultrasonic pre-treatment and vacuum drying, University of Zagreb Faculty of Food Technology and Biotechnology, Croatia
12.45-14.00	LUNCH

Lectures & Parallel sessions

CONFERENCE HALL

MARKET1

SESSION A: ENVIRONMENT AND CLIMATE CHANGES - continues

CHAIRS: J. Medak, L. Butorac

14.15-14.30	Ivan Dugan: Erosion control: tillage choices for sustainable agriculture, University of Zagreb Faculty of Agriculture, Croatia
14.30-14.45	Jasnica Medak: Methods of ecosystem biodiversity evaluation on the example of 7 locations of exploitation fields of the company HOLCIM, Croatian Forest Research Institute, Croatia
14.45-15.00	Anton Brenko: Identification of living conditions of summer truffle (<i>Tuber aestivum</i>) in natural productive sites of Istrian peninsula, Croatian Forest Research Institute, Croatia
15.00-15.15	Ivana Zegnal: Inoculating various forest seedlings with black truffles, Croatian Forest Research Institute, Croatia
15.15-15.30	Mirzeta Memišević Hodžić: Phenotypic variation in leaf and fruit traits in natural Populations of <i>Quercus petraea</i> (L.) Liebl. in Bosnia and Herzegovina, University of Sarajevo, Faculty of Forestry, Bosnia and Herzegovina
15.30-15.45	Antonio Vidaković: New insights into genetic diversity of European wild pear (<i>Pyrus pyraeaster</i> (L.) Burgsd.) And almond-leaved pear (<i>P. spinosa</i> Forsk.) In Croatia.

	implications for their conservation and protection, University of Zagreb Faculty of Forestry and Wood Technology, Croatia
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**CONFERENCE HALL
MARKET2**

SESSION C: GREEN TECHNOLOGIES

CHAIRS: *R. Ludwig, T. Rezić*

13.50-14.20	Pedro Lozano: Green (bio)catalytic processes for sustainable chemical industries, Department of Biochemistry and Molecular Biology, Faculty of Biology, University of Murcia, Spain
14.20-14.35	Zehranur Tekin: Enhancing growth profiles of microalgae with a spiral baffle mediated photobioreactor design, Department of Genetics and Bioengineering, Faculty of Engineering, Izmir University of Economics, Türkiye
14.35-14.50	Marina Tišma: The role of fungal biotechnology in development of circular and sustainable bioeconomy, Josip Juraj Strossmayer University of Osijek, Faculty of Food Technology Osijek, Croatia
14.50-15.05	Filippo Bisotti: A rigorous approach to modelling of biomass gasification, SINTEF Industry, Process Technology, Norway
15.05-15.20	Anita Šalić: Maximizing glucose dehydrogenase performance in 3D printed microreactors with various immobilization strategies, University of Zagreb Faculty of Chemical Engineering and Technology, Croatia
15.20-15.35	Elena Klarić: Physicochemical and microstructural characterization of bacterial nanocellulose obtained by kombucha watermelon rind fermentation, University of Zagreb Faculty of Food Technology and Biotechnology, Croatia
15.35-15.55	INSEL LAB d.o.o. sponsored lecture ERLAB FILTRATION SYSTEM

15.45-16.30	COFFEE BREAK
15.45-16.30	Poster presentations (SESSIONS A&B)

18.00	City Tour
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DAY 2 - Wednesday, 4th DECEMBER 2024, HOTEL INTERNATIONAL

8.00-9.00	Registration
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Lectures & Parallel sessions

**CONFERENCE HALL
MARKET1**

SESSION C: GREEN TECHNOLOGIES - continues

CHAIRS: *M. Cvjetko Bubalo, M. Tišma*

9.00-9.30	Polona Žnidaršič Plazl: Flow Biocatalysis as a key green technology, University of Ljubljana, Faculty of Chemistry and Chemical Technology, Slovenia
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9.30-9.50	Florian Csarman: Playing with fire – controlling the (self)-destructive reaction mechanism of lytic polysaccharide monooxygenase, University of Natural Resources and Life Sciences, Department of Food Science and Technology, Institute of Food Technology, Austria
9.50-10.05	Marcelina Mazur: The use of deep eutectic solvents in microbial reduction and chemo-enzymatic oxidation processes, Department of Food Chemistry and Biocatalysis, Wrocław University of Environmental and Life Sciences, Poland
10.05-10.20	Mia Radović: Customizing a microreactor for continuous biocatalysis: enzymatic acetophenone reduction in a deep eutectic solvent, University of Zagreb Faculty of Food Technology and Biotechnology, Croatia
10.20-10.35	Lucija Markulin: eDNA Labs - Applications of environmental DNA in water quality monitoring, Labena d.o.o. sponsored lecture

**CONFERENCE HALL
MARKET2**

SESSION D: URBAN FOREST AND URBAN GREENING

CHAIRS: *S. Krajter Ostoić, Y. Hoshika*

9.00-9.30	Pierre Sicard: The 3-30-300 Rule Compliance. A Geospatial Tool for Urban Planning, ACRI-ST, France
9.30-9.45	Yasutomo Hoshika: Modeling for optimal tree species selection considering air pollution removal capacity in urban ecosystems -FlorTree-, National Research Council Research Institute on Terrestrial Ecosystems, Italy
9.45-10.00	Monika Kemenečki: Overview of plant types for extensive green roofs, University of Zagreb Faculty of Agriculture, Croatia
10.00-10.15	Tin Udovč: Sustainable management of existing urban trees by impact of soil improvement applied to root systems on trees vitality - research findings, Arbofield d.o.o., HerbaFarm-magnolija d.o.o., Croatia
10.15-10.30	Emiliano Mori: The bio-bat project: assessing bat diversity in central Italy urban-rural interface, National Research Council Research Institute on Terrestrial Ecosystems, Italy
10.30-10.45	Silvija Krajter Ostoić: Public involvement in planning, management and maintenance of trees, forests and green space in urban areas – attitudes of professional in 10 European countries, Croatian Forest Research Institute, Croatia

10.40-11.30	COFFEE BREAK
10.40-11.30	Poster presentations (SESSIONS A, C, D&E)

**CONFERENCE HALL
MARKET1**

SESSION C: GREEN TECHNOLOGIES - continues

CHAIRS: *J. Vladić, N. Fernández*

11.30-11.50	Ana Rita C. Duarte: Natural deep eutectic systems applications in polymer engineering, LAQV-REQUIMTE, Chemistry Department, NOVA School of Science and Technology, Portugal
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11.50-12.05	Abdullah Bilal Öztürk: Utilization scenarios of whey for affordable and clean biochemicals and biofuels. A comparative process simulation and techno-economic evaluation, Department of Chemical Engineering, Faculty of Chemical and Metallurgical Engineering, Yildiz Technical University, Türkiye
12.05-12.20	Rita Craveiro: Biopolymeric membranes containing DES for transdermal drug delivery applications, LAQV-REQUIMTE, Chemistry Department, NOVA School of Science and Technology, Portugal
12.20-12.35	Ana Rita Jesus: Deep eutectic systems. paving the way for a greener pharmaceutical industry, LAQV-REQUIMTE, Chemistry Department, NOVA School of Science and Technology, Portugal
12.35-12.50	Martina Bagović Kolić: Deep eutectic solvents for enhanced drug solubilisation advancing from solvents to delivery systems, University of Zagreb Faculty of Food Technology and Biotechnology, Croatia

CONFERENCE HALL MARKET2

SESSION A: ENVIRONMENT AND CLIMATE CHANGES - continues

CHAIRS: *H. Marjanović, D. Ugarković*

11.30-11.45	Damir Ugarković: Climatic variations in the Eu-Mediterranean area in Croatia, University of Zagreb Faculty of Forestry and Wood Technology, Croatia
11.45-12.00	Saeedeh Eskandari: Mapping the land uses in protected areas of Spain using high-resolution satellite images and random forest model (a case study in Ons island), University of Vigo, Hydro-Forestry Geomodeling Research Group, School of Forestry Engineering, Spain
12.00-12.15	Želimir Kurtanjek: Causal AI modelling and prediction of forest fires in Mediterran, University of Zagreb Faculty of Food Technology and Biotechnology, Croatia
12.15-12.30	Doroteja Bitunjac: Validation of the Biome-BGCMuSo model for estimating soil organic carbon changes in oak chronosequence in Croatia, Croatian Forest Research Institute, Croatia
12.30-12.45	Andro Kokeza: Accuracy Assessment of Personal Laser Scanning Estimates of the Main Tree Attributes in Vegetation and Non-Vegetation period in Mixed Common Beech Forest Croatian Forest Research Institute, Croatia

13.00-14.00	LUNCH
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Lectures & Parallel sessions

CONFERENCE HALL MARKET1

SESSION C: GREEN TECHNOLOGIES - continues

CHAIRS: *K. Radošević, A. R. C. Duarte*

14.00-14.20	Jelena Vladić: Evaluation of deep eutectic solvents for enhanced polyphenol extraction and antibacterial activity of <i>Hypericum androsaemum</i> extracts, LAQV-
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	REQUIMTE, Chemistry Department, NOVA - School of Science and Technology, Portugal
14.20-14.35	Aleksandra Grudniewska: Extraction of proteins and phenolics from agro-industrial by-products using deep eutectic solvents, Wroclaw University of Environmental and Life Sciences, Poland
14.35-14.50	João P. Baixinho: Winery by-products as potential source of novel fungicides, iBET, Institute of Experimental Biology and Technology, Portugal
14.50-15.05	Iva Čanak: Removal of aflatoxin b1 using brewer's spent grain, University of Zagreb Faculty of Food Technology and Biotechnology, Croatia
15.05-15.20	Klodian Xhanari: Corrosion inhibition performance of <i>Arundo donax</i> l. Leaves alcoholic extract on Fe B500B steel in acidic solution, University of Tirana, Faculty of Natural Sciences, Albania

**CONFERENCE HALL
MARKET2**

SESSION E: SUSTAINABLE WOOD PRODUCTS

CHAIRS: *M. Klarić, A. Straže*

14.00-14.30	Aleš Straže: Use of non-destructive methods to determine quality along the entire production chain from forest to end use, University of Ljubljana, Biotechnical Faculty, Department of Wood Science and Technology, Slovenia
14.30-14.45	Matteo Gilardi: Design of a novel process for biomethane production via thermochemical conversion of woody biomass, SINTEF Industry, Norway
14.45-15.00	Claudio Del Menezzi: Properties of wood laminated composites bonded with citric acid-based adhesive, Department of Forestry Engineering, University of Brasilia, Brazil
15.00-15.15	Branko Ursić: Fuel properties of paulownia rbtc15 clone, University of Zagreb Faculty of Forestry and Wood Technology, Croatia

15.20-16.00	COFFEE BREAK
15.20-16.00	Poster presentations (SESSIONS A, C, D&E)

19.30	GALA DINNER
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DAY 3 - Thursday, 5th DECEMBER 2024, HOTEL INTERNATIONAL

8.00-8.45	Registration
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Lectures & Parallel sessions

**CONFERENCE HALL
MARKET1**

WORKSHOP: Opportunities and Constraints of Forest Restoration and Prestoration

CHAIRS: *M. Đodan, S. Schueler*

8.30-9.00	Silvio Schueler: Maintaining forest ecosystems in climate change by assisted migration: concepts, benefits and challenges for European forestry, Austrian Research Centre for Forestry, Austria
9.00-9.20	Martina Đodan: Restoration needs and constraints in the Republic of Croatia, Croatian Forest Research Institute, Croatia
9.20-9.40	Martina Đodan: Restoration of pedunculate oak stands – the importance of provenance selection, Croatian Forest Research Institute, Croatia
9.40-9.55	Barbara Škiljan: Restoration of poplar plantations within cross-border cooperation of Croatia and Serbia, Croatian Forest Research Institute, Croatia
9.55-10.10	Martina Đodan: Establishment and development of Laboratory for Adapted Forest Reproductive Material (LABADAPT), Croatian Forest Research Institute, Croatia
10.10-10.25	Andrija Barišić: Pedunculate oak management – contemporary challenges and restoration constraints in the Republic of Croatia, Croatian Forest Research Institute, Croatia

**CONFERENCE HALL
MARKET2**

WORKSHOP: Development of New Generation of Snack Food for Consumers with Specific Dietary Needs using 3D Printing Technologies (“3DSnack4Health”, HRZZ-IP-2020-02-3829)

CHAIRS: *D. Novotni, A. Pilipović, N. Čukelj Mustač*

8.45-9.00	Dubravka Novotni: Development of 3D-printed snacks for consumers with specific dietary needs, University of Zagreb Faculty of Food Technology and Biotechnology, Croatia
9.00-9.15	Kristina Radoš, Bojana Voučko: Hydrocolloids and enzymes application for improvement of 3D-printability and stability of gluten-free batter and snacks, University of Zagreb Faculty of Food Technology and Biotechnology, Croatia
9.15-9.30	Ana Pilipović: PROJECT 3Dsnack4health – What we need to know about 3D food printing?, University of Zagreb Faculty of Mechanical Engineering and Naval Architecture, Croatia
9.30-9.45	Mislav Tujmer: Design and features of a 3D printer for making cereal snacks, University of Zagreb Faculty of Mechanical Engineering and Naval Architecture, Croatia
9.45-10.00	Maja Benković: Predicting 3D print snack quality using artificial neural networks (ANN) and rheological data, University of Zagreb Faculty of Food Technology and Biotechnology, Croatia
10.00-10.15	Matea Habuš: The potential of using grain by-product in the development of 3D-printed snacks, Križevci University of Applied Sciences, Croatia
10.15- 10.30	Nikolina Čukelj Mustač: Post-processing and flavouring effects on quality of 3D gluten-free snacks, University of Zagreb Faculty of Food Technology and Biotechnology, Croatia

10.30-11.00	COFFEE BREAK
10.30-11.00	Poster presentations (SESSION F)

**CONFERENCE HALL
MARKET1**

SESSION F: SILVICULTURE AND ECOSYSTEM MANAGEMENT

CHAIRS: V.-N. Nicolescu, A. Đuka

11.15-11.45	Valeriu-Norocel Nicolescu: "Stand silviculture" vs. "free-growth silviculture" in sessile oak [<i>Quercus petraea</i> (matt.) Liebl], Transilvania University of Brasov, Romania
11.45-12.00	Srdjan Keren: How dynamic are structural and compositional changes at a fine-scale level? An example from the strictly protected forests of Roztocze National Park in Poland, Faculty of Forestry, University of Agriculture in Krakow, Poland
12.00-12.15	Mislav Vedriš: Damage to narrow-leaved ash (<i>Fraxinus angustifolia</i> vahl) and green ash (<i>Fraxinus pennsylvanica</i> marshall) in relation to tree attributes and stand structure in Croatian lowland forests, University of Zagreb Faculty of Forestry and Wood Technology, Croatia
12.15-12.30	Jelena Kranjec Orlović: Fungi associated with crown dieback of <i>Quercus robur</i> L. In Eastern Croatia, University of Zagreb Faculty of Forestry and Wood Technology, Croatia
12.30-12.45	Krešimir Krapinec: Developing prediction model for brown bear timber damages. a case of unpredictability, University of Zagreb Faculty of Forestry and Wood Technology, Croatia
12.45-13.00	Priyanka Chaudhary: Unveiling the connection. landscape characterisation, forest health and leopard population in northern aravalli landscape, India, University School of Environment Management, India

CONFERENCE HALL

MARKET2

EIT FOOD HUB WORKSHOP: Commercialization of Scientific Research Results

10.30-11.30	Identification of Market Needs
11.45-12.30	Intellectual Property Protection
12.30-13.15	Business Model Development: Desirability
13.35-15.05	Business Model Development: Feasibility and Sustainability
15.15-16.15	Funding Opportunities
16.15-16.30	Presentation of Results

13.00-14.00	LUNCH
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CONFERENCE HALL

MARKET1

SESSION F: SILVICULTURE AND ECOSYSTEM MANAGEMENT - continues

CHAIRS: D. Vuletić, S. Posavec

14.00-14.15	Sushma Rani: Analysis of Land Use and Land Cover Dynamics in Damdama Wetland, Gurugram, India Using Multiple Change Detection Methods, University School of Environment Management, India
14.15-14.30	Dijana Vuletić: Role of living labs in integrating societal demands with biodiversity conservation, Croatian Forest Research Institute, Croatia

14.30-14.45	Prabhakar: The role of rubber plantations in ecosystem management: insights from CO ₂ sequestration in Tripura, University School of Environment Management, GGSIP University, India
14.45-15.00	Aman Mahajan: Neem tree improvement for the development of sustainable bioeconomy and livelihood of farmers, Forest Research Institute Dehradun, India
15.15-15.30	CLOSING CEREMONY

Posters presentation

Tuesday, 3rd December 2024

Session A

- AP1 **Marko Bačurin, Ida Katičić Bogdan, Saša Bogdan:** The different timing of exposure to drought stress differentially affects growth in pedunculate oak
- AP2 **Martina Kadoić Balaško, Tatjana Masten Milek, Luka Basrek:** Invasion dynamics of Himalayan balsam along the Bregana river
- AP3 **Joshal Kumar Bansal, Ajanta Goswami:** Assessment of climate extremes in Himachal Pradesh: analysis of key climate indices and their implications for regional vulnerability
- AP4 **Nevenka Čelepirović, Sanja Novak Agbaba:** Investigation of the presence of other harmful organisms on samples collected for the purpose of special surveillance of the quarantine harmful organism - *Geosmithia morbida*
- AP5 **Saeedeh Eskandari, Carolina Acuña-Alonso, Xana Álvarez Bermúdez:** Effect of climate change on increasing establishment of invasive plant species: an important challenge for biodiversity of native species in changing world
- AP6 **Arushi Jha, Naresh Chandra Gupta, Joshal. K Bansal:** Hydro-climate extremes in the Himalayan watershed: a case of the Gandak watershed
- AP7 **Mia Marušić, Nenad Potočić, Ivan Seletković, Krunoslav Sever:** Fertilization enhances drought resilience and recovery of photosynthesis in European beech saplings
- AP8 **Saša Orlović, Dragica Stanković, Lazar Kesić, Marina Milović, Saša Pekeč, Leopold Poljaković Pajnik, Branislav Kovačević:** Early selection of most appropriate poplar and willow cultivars for landfill remediation using plant physiology parameters
- AP9 **Tanu Prakash, Tuisem Shimrah:** Evaluating the relationship between land surface temperature and different land indices in South Delhi using landsat data
- AP10 **Krunoslav Sever, Antonia Vukmirović:** Drought impact on photosynthetic pigments in common beech and sessile oak leaves
- AP11 **Mirjana Stanišić, Jelena Nedeljković, Dragan Nonić:** Enhancing climate change governance in Serbia: strategic and legal framework in forestry and related sectors
- AP12 **Marko Vucelja, Linda Bjedov, Lea Katarina Gobec, Milan Pernek, Tomislav Dubravac, Dinka Matošević, Darko Pleskalt, Josip Margaletić:** "To monitor, prevent and protect!" – five years of rodent monitoring at forest administration "Vinkovci"

Session B

- BP1 **Tomislav Bosiljkov, Anica Bebek Markovinović, Maria Peteh, Sven Karlović, Damir Ježek, Filip Dujmić, Marko Škegro and Danijela Bursać Kovačević:** Determination of rheological properties in functional jelly products based on strawberry and strawberry tree fruit
- BP2 **Maja Dent, Igor Jerković, Antonela Ninčević Grassino:** Hydrolate fraction of coffee and coffee by-products as a source of volatile compounds
- BP3 **Xhulieta Hamiti, Gjyliza Shallari, Pranvera Lazo:** Phenolic content and physicochemical properties of some albanian honey samples for therapeutic use
- BP4 **Maja Jukić Špika, Mirella Žanetić, Gvozden Dumičić, Jakša Rošin, Elda Vitanović:** Influence of common copper fungicides and low-copper products used in olive disease control on olive oil quality
- BP5 **Dora Bošnjak, Marija Sigurnjak Bureš, Luna Maslov Bandić:** Impact of chitosan edible covering on the carotenoid composition of mandarin fruit during
- BP6 **Antonela Ninčević Grassino, Sandra Pedisić, Maja Dent:** Hydrolate fractions of coffee and coffee by-products as a source of phenolic compounds

- BP7 **Matija Maltarski, Anja Damjanović, Marina Miklenić Svetec, Marko Obranović, Kristina Radošević, Višnja Gaurina Srček, Igor Slivac:** Flaxseed protein hydrolysates enhance lipid accumulation in adipocyte
- BP8 **Nataša Mikulec, Fabijan Oštarić, Iva Horvat Kesić, Nevijo Zdolec, Jasminka Špoljarić:** Production of an innovative functional food supplement based on goat's milk
- BP9 **Mojca Čakić Semenčić, Tea Žugec, Filip Šupljika:** Spectrofluorimetric determination of the riboflavin content in energy drinks
- BP10 **Paula Šiptar, Tereza Čabrilo, Višnja Stulić, Irena Barukčić Jurina, Zoran Herceg, Tomislava Vukušić Pavičić:** Challenges in developing 3D-printed functional fruit and dairy products. **WORKSHOP: Development of New Generation of Snack Food for Consumers with Specific Dietary Needs using 3D Printing Technologies ("3DSnack4Health", HRZZ-IP-2020-02-3829)**

Wednesday, 4th December 2024

Session C

- CP1 **Maja Drenovac, Ana Jurinjak Tušek, Davor Valinger, Tamara Jurina, Jasenka Gajdoš Kljusurić, Maja Benković:** Influence of *Melissa officinalis* extract concentration on biosynthesis of iron nanoparticle
- CP2 **Mirna Brekalo, Blanka Bilić Rajs, Sandra Budžaki, Marta Ostožčić, Ivica Strelec:** Production of Cellulose-Based Enzyme Immobilization Carrier from Brown Onion Skin
- CP3 **Ivona Karaula, Emma Karolina Vasung, Anja Damjanović, Manuela Panić, Kristina Radošević, Marina Cvjetko Bubalo:** Rational design of natural deep eutectic solvents for extraction of high-value broccoli compounds
- CP4 **Luka Brezinščak, Iva Ćurić, Željka Zgorelec, Marija Galić, Davor Dolar:** Effect of textile wastewater usage on zinc concentration in soil
- CP5 **Maja Dent, Dolores Šaško:** Ultrasound - assisted extraction of phenolic compounds from olive leaves
- CP6 **Naiara Fernández, Frédéric B. Gaspar, Ana Luísa Oliveira, Mário Vale, Margarida Pimenta, João P. Baixinho, Sara Tedesco, Maria Teresa Barreto Crespo:** Evaluation of olive oil industry by-products as a source of phytosanitary ingredients
- CP7 **Jasna Halambek, Mario Vereš, Nina Popović, Sandra Zavadlav:** Inhibition of steel corrosion in hydrochloric acid solution using chitosan and caffeine
- CP8 **Ana Huđek Turković, Karla Hanousek Čiča, Ena Cegledi, Ksenija Durgo, Jasna Mrvčić, Damir Stanzer, Verica Dragović-Uzelac:** Evaluation of the antimicrobial, antiproliferative, and antioxidative activity of blackcurrant and bilberry leaf extracts obtained by the green approach of accelerated solvent extraction
- CP9 **Stela Jokić, Krunoslav Aladić, Ana-Marija Cikoš, Ivana Flanjak, Igor Jerković, Sanja Radman, Drago Šubarić, Rozelindra Čož-Rakovac:** Isolation of pigments from brown macroalgae *Cystoseira corniculata*, *Ericaria crinita* and *Gongolaria barbata*
- CP10 **Antonija Jurić, Marin Ugrina, Damir Barbir, Ivona Nuić:** A sustainable approach to the disposal of mercury-saturated fes-doped natural zeolite by solidification/stabilization in a cement matrix
- CP11 **Nemanja Krgović, Jelena Živković, Milica Radan, Miloš Jovanović, Katarina Šavikin, Dejan Pljevljakušić:** Natural deep eutectic solvents for sustainable extraction of lignans from burdock seeds
- CP12 **Mojca Čakić Semenčić, Katarina Marević, Anja Rašić, Filip Šupljika, Mia Kurek:** Influence of microwave extraction parameters on the total polyphenols and antioxidant capacity of borage and lemon balm extracts
- CP13 **Nikolina Račić, Lana Vujanić, Jasmina Lapić, Anica Bebek Markovinović, Danijela Bursać Kovačević, Senka Djaković:** Characterization of bioactive compounds in the extract of the fruit and leaf of *Arbutus unedo* l. (the strawberry tree)

- CP14 **Franka Markić, Višnja Stulić, Tomislava Vukušić-Pavičić, Nadica Maltar-Strmečki:** Isolation of bioactive compounds from vegetable by-products using a pulsed electric field as pre-treatment
- CP15 **Jovan Parlić, Gordana Stevanović, Marija Ajduković, Zorica Mojović, Nataša Jović-Jovičić:** Activated sawdust derived biochar for adsorption of dyes
- CP16 **Marijan Logarušić, Marina Cvjetko Bubalo, Anja Damjanović, Marko Božinović, Polona Žnidaršič-Plazl, Igor Plazl, Mia Radović, Ivana Radojčić Redovniković:** The role of deep eutectic solvents in enhancing sustainability and efficiency in biocatalytic processes
- CP17 **Angela Matanović, Ana Slišković, Marina Svetec Miklenić, Ivan-Krešimir Svetec:** Genetic modification of non-conventional yeast *Scheffersomyces stipitis* for lactate production
- CP18 **Aleksandra Jovanović, Nemanja Krgović, Ana Alimpić Aradski, Jelena Živković, Katarina Šavikin:** Polyphenol and protein content in wild thyme dust extracts with natural deep eutectic solvents
- CP19 **Natalija Velić, Marija Stjepanović, Maja Zovko, Zita Šereš, Nikola Maravić, Marek Wrobel, Marcin Jewiarz:** Biosorption Potential of buckwheat hulls biochar functionalized with H₂SO₄ and FeCl₃ for phosphate removal from wastewater
- CP20 **Renata Vičević, Anita Šalić, Ana Jurinjak Tušek, Bruno Zelić:** Kinetic Modeling of *Ralstonia eutropha* H16 Growth on Different Media
- CP21 **Siniša Simić, Aleksandra Gavarić, Igor Jerković, Stela Jokić, Krunoslav Aladić, Zoran Maksimović, Senka Vidović:** Exploring the potential of pannonian thyme (*Thymus pannonicus* all.): supercritical CO₂ extraction for the recovery of low polar fraction
- CP22 **Elda Vitanović, Marijana Popović, Filipa Burul, Ana Bego, Luka Čotić, Frank Zalom:** Novel approach to olive fruit fly (*Bactrocera oleae*, rossi) monitoring and/or control using volatile compounds produced by brewing by-product
- CP23 **Klodian Xhanari, Muhamed Farruku:** Recent advances in plants extracts as green corrosion inhibitors for carbon steel in aggressive solutions
- CP24 **Katarina Šavikin, Nemanja Krgović, Miloš Jovanović, Jelena Živković, Aleksandra Jovanović:** Ultrasound-assisted natural deep eutectic solvents extraction of bioactive compounds from rosehip fruits
- CP25 **Danijela Urbancl, Lana Gajšt, Darko Goričanec, Sven Gruber, Klemen Rola, Aleksandra Petrović:** Assessment of the energy potential of flax and hemp by-products

Session A & D

- AP13 **Ivan Balenović, Krunoslav Indir, Ante Šiljeg, Ivan Marić, Anita Šimić Milas, Danko Kuric, Andro Kokeza:** Testing the performance of the-state-of-the-art hand-held personal laser scanning systems for tree height estimations in lowland pedunculate oak forests
- AP14 **Damir Ugarković, Matej Knezičić:** The influence of canals in a floodplain forest ecosystem on soil moisture
- AP15 **Nikola Zorić, Robert Bogdanić, Ivan Balenović:** Use of thermal images captured from UAV for detecting nests of pine processionary moth in the Lika region, Croatia
- DP1 **Laura Bonora, Francesca Martelli, Valentina Marchi:** Informed, aware and communicative young citizens: a strategic approach to address urban greening challenges
- DP2 **Vinko Paulić, Branko, Ursić, Darko Bakšić, Dinko Vusić:** Sulfur accumulation in foliage and shoots of small leaved linden urban trees growing near sulfur thermal mineral water springs in town of Varazdinske Toplice, Croatia

Session E

- EP1 **Aleksandar Lovrić, Nebojša Todorović, Vladislav Zdravković, Mimica Stefanović:** Evaluating the potential for exterior use of plywood panels composed of thermally modified poplar veneers
- EP2 **Aleksandra Lj. Mitrović, Katarina Vojisavljević, Ilinka Pećinar, Dragana Bartolić, Dušica Janošević:** Raman microspectroscopy of "tensile flexure wood" in *Populus x Euramericana*

Thursday, 5th December 2024

Session F

- FP1 **Veronique Decroocq, Dalibor Ballian Katja Sonnenschein, Martin Lascoux, Phil Aravanopoulos:** What is fruitdiv in European initiative about forests fruit
- FP2 **Sanja Bogunović, Miran Lanščak, Zvonimir Vujnović, Nevenka Čelepurović, Mladen Ivanković:** *In vitro* conservation of narrow-leaved ash in Croatia - advantages and risks
- FP3 **Branislav Cvjetković, Milan Mataruga, Franciska Deljak, Tatjana Sablić, Vojislav Dukić:** Characteristics of seeds and seedlings from the marginal population of pedunculate oak (*Quercus robur* L.) from Livanjsko polje
- FP4 **Edin Mešković, Galib Mahmutović, Tarik Treštić, Azra Čabaravdić:** Supervision of spruce bark beetle attacks supported with remote sensing in the north-east Bosnia
- FP5 **Milivoj Franjević, Andreja Đuka, Ivica Papa, Ivan Žarković, Kristijan Tomljanović:** Forest pests in aftermath of bark beetle outbreaks in une-ven-aged fir stands
- FP6 **Dickson Heisnam, Prodyut Bhattacharya:** Analyzing land use land cover (LULC) and NDVI trends in Loktak lake: insights for ecosystem management and Unesco global geopark designation
- FP7 **Sanja Jovanović, Aleksandar Vemić, Aleksandar Lučić, Ljubinko Rakonjac, Vladan Popović:** Bacterial treatment promotes the growth of two-year-old sessile oak (*Q. petraea* (matt.) Liebl) seedlings produced from damaged acorns
- FP8 **Martina Kičić, Tamara Kirin, Nikolina Bakšić Pavlović, Blaženka Sopina, Gordana Goreta, Tin Lukačević, Neven Tandarić, Dalia Matijević, Andrea Blažević, Tajana Uzelac Obradović, Tea Šilić, Dijana Vuletić:** Croatian know-how – advancing biodiversity, ecosystem condition and services in various spatial contexts
- FP9 **Jelena Kolić, Renata Pernar, Mario Ančić:** Application of remote sensing products in determining damage caused by a storm
- FP10 **Bojan Konatar, Branko Kanjevac, Ljubinko Rakonjac, Ilija Đorđević, Miroslava Marković, Jelena Božović, Miloš Račić:** Dynamics of artificial regeneration and establishment of new forests in Serbia for the period 2017-2023
- FP11 **Miran Lanščak, Sanja Bogunović, Anđelina Gavranović Markić, Sanja Perić, Barbara Škiljan, Zvonimir Vujnović, Mladen Ivanković:** Close-to-nature foreSt SusTainable Management under Climate Changes - LIFE SySTEMiC
- FP12 **Peimi Lungleng, Tuisem Shimrah:** Unveiling the cultural significance of traditional shifting agriculture in biodiversity conservation: perspectives of the Tangkhul community of Northeast India
- FP13 **Tsuyoshi E. Maruyama, Momi Tsuruta:** Tissue culture-mediated regeneration as a tool for scale-up propagation of selected Japanese conifer trees
- FP14 **Jelena Nedeljković, Marina Nonić, Dragan Nonić:** Female students' perspectives on forestry careers in Serbia
- FP15 **Emanuel Gaši, Katarina Hančević, Mate Čarija, Tomislav Radić:** Mycorrhizal networking between grapevine roots in biotic stress context: impact on physiology of healthy grapevine
- FP16 **Mirsada Starčević, Galib Mahmutović, Azra Čabaravdić:** Trends in forest cover based on sentinel S2 imagery in protected area "Tajan"
- FP17 **Neven Tandarić, Tin Lukačević, Mihaela Meštović:** Planning green infrastructure in Croatia: current state and challenges
- FP18 **Lucija Bužančić, Dora Tomić Reljić:** Landscape ecology analysis of the Korenica hunting ground
- FP19 **Kristijan Tomljanović, Marko Augustinović, Tomislav Turajlija, Marijan Grubešić:** Daily – seasonal activity of wild cat in the area of Plitvice lakes national park
- FP20 **Marta Ljevar, Dora Tomić Reljić:** Identification of landscape values of the municipality Kaptol
- FP21 **Nenad Potočić, Tom Levanič, Srđan Stojnić, Valentina Lovrić, Ivan Seletković, Tamara Jakovljević, Krunoslav Indir, Mia Marušić, Nikola Zorić, Robert Bogdanić, Primož Simončić,**

Aleksander Marinšek, Lazar Kesić: enhancing forest monitoring of oak forests in South-East europe - oaks