

14th hranom do zdravlja with food to health

September 14th and 15th 2023, Osijek, Croatia

14th International Scientific
and Professional Conference
WITH FOOD TO HEALTH

14. međunarodni
znanstveno-stručni skup
HRANOM DO ZDRAVLJA



PROGRAM
PROGRAMME

Organizator / Organizer

Prehrambeno-tehnološki fakultet
Sveučilišta u Osijeku

/ Faculty of Food Technology Osijek
(University of Osijek, Croatia)

Suorganizatori / Coorganizers

Hrvatska agencija za poljoprivredu i
hranu

/ Croatian Agency for Agriculture and Food

Farmaceutski fakultet Univerziteta u Tuzli
(BIH)

/ Faculty of Pharmacy (University of Tuzla,
B&H)

European Hygienic Engineering & Design
Group – EHEDG (Njemačka)

/ European Hygienic Engineering & Design
Group – EHEDG (Germany)

Medicinski fakultet Sveučilišta u Osijeku

/ Faculty of Medicine (University of Osijek,
Croatia)

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kantona (BIH)

/ Chamber of Pharmacists of Tuzla Canton
(Tuzla, B&H)

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zdravstvo Sveučilišta u Osijeku
(Hrvatska)

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(University of Osijek, Croatia)

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Sveučilišta u Zagrebu

/ Faculty of Food Technology and
Biotechnology (University of Zagreb,
Croatia)

Hrvatski zbor nutricionista (Hrvatska)

/ The Croatian Association of Nutritionists
(Croatia)

Fakultet agrobiotehničkih znanosti
Sveučilišta u Osijeku

/ Faculty of Agrobiotechnical Sciences
Osijek (University of Osijek, Croatia)

Udruga narodnog zdravlja Andrija
Štampar, Hrvatska

/ Andrija Štampar – Association of
People's Health (Croatia)

Nastavni zavod za javno zdravstvo
Osječko-baranjske županije (Hrvatska)

/ The Teaching Institute for Public Health
(Osijek, Croatia)

Odjel za Biologiju Sveučilišta u Osijeku

/ Department of Biology (University of
Osijek, Croatia)

Kemijsko-tehnološki fakultet Sveučilišta
u Splitu

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(University of Split, Croatia)

Fakultet turizma i ruralnog razvoja u Požezi Sveučilišta u Osijeku	/	<i>Faculty of Tourism and Rural Development (University of Osijek, Croatia)</i>
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Agronomski i prehrambeno-tehnološki fakultet Sveučilišta u Mostaru (BiH)	/	<i>Faculty of Agriculture and Food Technology (University of Mostar, B&H)</i>
Akademija tehničkih znanosti Hrvatske	/	<i>Croatian Academy of Engineering (Croatia)</i>
Tehnološki fakultet Zvornik Univerziteta u Istočnom Sarajevu (BIH)	/	<i>Faculty of Technology Zvornik (University of East Sarajevo, B&H)</i>
Udruženje za nutricionizam i dijetetiku (BIH)	/	<i>Association for Nutrition and Dietetics (B&H)</i>
Udruga bivših studenata i prijatelja Prehrambeno-tehnološkog fakulteta Osijek – TehnOS (Hrvatska)	/	<i>Association of former students and friends of the Faculty of Food Technology Osijek – TehnOS (Croatia)</i>
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MJESTA ODRŽAVANJA SKUPA | MEETING VENUES

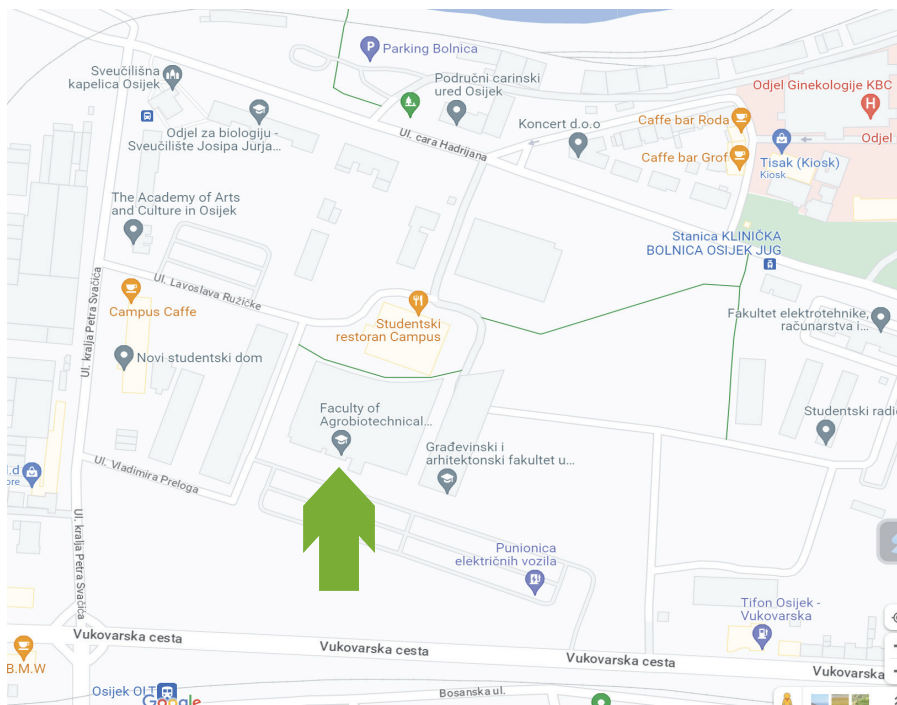
Konferencija / Conference

Fakultet agrobiotehničkih
znanosti Osijek,
Vladimira Preloga 1, Osijek



Svečana večera / Conference dinner

Dvorana Bells,
Josipa Jurja Strossmayera 113,
Osijek



Sveučilište Josipa Jurja Strossmayera u Osijeku
Prehrambeno-tehnološki fakultet Osijek
Josip Juraj Strossmayer University of Osijek
Faculty of Food Technology Osijek

International Conference
14th WITH FOOD TO HEALTH
September 14th and 15th, 2023, Osijek, Croatia

PROGRAM

PROGRAMME

8:30 – 9:15	Registration of participants, setting up posters for Day 1 Prijava i registracija sudionika, postavljanje postera za 1. dan
	Otvorenje Skupa - Dvorana Aula Magna
9:15 – 10:15	Conference Opening Ceremony - Aula Magna Hall (Kratka stanka 5-10 min.)
10:15 – 11:15	PLENARNA I POZVANA PREDAVANJA - Dvorana Aula Magna PLENARY AND INVITED LECTURES - Aula Magna Hall Moderatori <i>Chairs</i> : Daniela Čačić Kenjerić; Greta Krešić
	<u>Plenary lectures / Plenarna predavanja</u> PROCESSED AND ULTRA-PROCESSED FOOD CONSUMPTION AMONG CHILDREN Ivana Rumbak
10:15 – 11:15	THE EFFECT OF PROBIOTICS ON THE ELDERLY Katarina Fehir Šola <u>Invited lecture / Pozvano predavanje</u> THE INFLUENCE OF FOOD ON THE PHARMACOKINETICS OF PAEDIATRIC MEDICINES Suzana Mimica
11:15 – 11:45	Coffee Break, Poster Session Pauza za kavu, razgledavanje postera
11:45 – 12:55	PLENARNA I POZVANA PREDAVANJA – Dvorana Aula Magna PLENARY AND INVITED LECTURES - Aula Magna Hall Moderatori <i>Chairs</i> : Daniela Horvat, Đurđica Ačkar
	<u>Plenary lectures / Plenarna predavanja</u> CAN NANOMATERIALS UPLIFT FOOD SAFETY AND PRODUCTION? Ivana Borišev, Aleksandar Djordjevic, Danica Jović
11:45 – 12:55	<u>Invited lectures / Pozvana predavanja</u> BIOAVAILABILITY AND INCREMENT IN RESORPTION CAPACITY OF HIGH-VALUE PROTEINS AND MINERALS FROM WHEAT GRASS; CELLULAR MODEL Katarina Mišković Špoljarić, Andrijana Rebekić IMPACT OF FOOD WITH SEDATIVE INGREDIENTS ON THE LEVEL OF NUTRITIONAL STATUS <u>Azra Sinanović</u> , Midhat Jašić, Drago Šubarić, Ivana Flanjak, Damir Alihodžić, Benjamin Čaušević IS RAPID ANALYTICS RELIABLE ENOUGH Slađana Ruml Tunjić

12:55 – 14:30	Lunch break, Poster Session Pauza za ručak, razgledavanje postera	
14:30 – 15:45	POZVANA PREDAVANJA I USMENA PRIOPĆENJA - Dvorana Aula Magna INVITED LECTURES AND ORAL PRESENTATIONS - Aula Magna Hall Moderatori <i>Chairs</i> : Stela Jokić, Nika Pavlović	
	<u>Plenary lecture / Plenarno predavanje</u> NEW TECHNOLOGICAL TRENDS IN PHARMACEUTICAL DRUG FORMULATIONS Rita Ambrus	
	<u>Invited lecture / Pozvano predavanje</u> DIAGNOSTIC BIOMARKERS AND CLINICAL ASSESSMENT OF OBESITY Tatjana Bačun	
14:30–15:45	<u>Oral presentations / Usmena priopćenja</u> IMPROVING THE FUNCTIONAL CHARACTERISTICS OF YOGURTS WITH FRUITS Dimitra Dimitrellou, Panagiotis Kandyliis POWDERED OAT HUSK AS A VALUABLE BY-PRODUCT FOR COOKIES ENRICHMENT Dariusz Dziki, Katarzyna Lisiecka, Urszula Gawlik-Dziki, Renata Różyto, Anna Krajewska, Grażyna Cacak-Pietrzak BENZOXAZINOID: NEGLECTED COMPOUNDS IN GERMINATED GRAINS Andrej Živković, Tomaž Polak, Tomaž Požrl	
15:45 – 16:00	Short break Kratka pauza	
16:00 – 17:00	Workshop / Radionica (Dvorana Aula Magna/ Aula Magna Hall) Moderator / Moderator: Ines Banjari	
16:00 – 17:00	HRANA U ZDRAVLJU I BOLESTI – VAŽNOST SURADNJE NUTRICIONISTA, LIJEČNIKA I FARMACEUTA U ERI DRUŠTVENIH MREŽA Voditelj / Chair: izv. prof. dr. sc. Ines Banjari Panelisti radionice / Workshop Panelists: Livia Puljak, Ino Kermc, Helena Orehovački, Katarina Štern Kasa, Angelina Paić, Marizela Šabanović	
20:00	Svečana večera Conference dinner	Adresa / Address Josipa Jurja Strossmayera 113, Osijek

8:30 – 9:15	Registration of participants, setting up posters for Day 2 Prijava i registracija sudionika, postavljanje postera za 2. dan
09:15 – 10:30	POZVANA PREDAVANJA I USMENA PRIOPĆENJA - Dvorana Aula Magna INVITED LECTURES AND ORAL PRESENTATIONS - Aula Magna Hall Moderatori Chairs: Antun Jozinović; Ante Lončarić <u>Invited lectures / Pozvana predavanja</u> NATIONAL QUALITY SYSTEM FOR AGRICULTURAL AND FOOD PRODUCTS “DOKAZANA KVALITETA”/“PROVEN QUALITY” Sanja Kolarić Kravar WHY SHOULD EVERYONE EAT MUSHROOMS? Artur Gryszkin <u>Oral presentations / Usmena priopćenja</u> INTERMITTENT FASTING AND CARDIOVASCULAR RISK FACTORS Dragan Novosel, Matej Majetić, Patricija Reis-Majić ROLE OF THE NUTRITIONIST AND PERSONALISED NUTRITION PLAN IN EDIBLE COATINGS BASED ON CITRUS PEEL PECTIN AND OREGANO ESSENTIAL OIL FOR ACTIVE PACKAGING OF FRESH/FRESH-CUT FRUITS Marija Kostić, Branimir Bajac, Ljiljana Janjušević, Jelena Bajac, Mirjana Antov DEEP EUTECTIC SOLVENTS (DES) AS CAFFEINE EXTRACTANTS FROM FOOD AND BEVERAGE SAMPLES Branislava Teoflović, Nevena Grujić, Emilia Gligorić, Snežana Papović, Milan Vraneš THE IMPACTS OF DIFFERENT DRYING TEMPERATURES AND LYOPHILIZATION ON THE CHEMICAL COMPOSITION AND BIOLOGICAL ACTIVITY OF MICROALGA CHLAMYDOMONAS REINHARDTII Tamara Vujović; Marija Baković; Lucija Perković; Ana Martić; Marina Punčec; Rozelindra Čož-Rakovac; Ivančica Strunjak-Perović
10:30 – 11:00	Coffee Break, Poster Session Pauza za kavu, razgledavanje postera
11:00 – 12:15	POZVANA PREDAVANJA I USMENA PRIOPĆENJA - Dvorana Aula Magna INVITED LECTURES AND ORAL PRESENTATIONS - Aula Magna Hall Moderatori Chairs: Branislava Teoflović; Sanja Kolarić Kravar

Invited lectures / Pozvana predavanja

CANNABIDIOL - HIGH-VALUE BIOACTIVE SUBSTANCE FROM HEMP, APPLICATION AS MEDICINE, FOOD SUPPLEMENT AND MEDICAL

Emilija Spaseska Aleksovska, Stela Jokić, Aleksandar Aleksovski

CLEAN LABEL – RAZVO LINIJE MESNIH PRERAĐEVINA BEZ ADITIVA

Ines Bertinovec, Silvija Pajalić Nenadović, Tea Agić

Oral presentations / Usmena priopćenja

WEIGHT LOSS PRACTICES AMONG COMBAT SPORT ATHLETES: CASE STUDY ON A SMALL GROUP OF TAEKWONDOO ATHLETES

11:00 – 12:15

Almedina Bunić, Daniela Čačić Kenjerić

DIET PLANNING FOR ELDERLY IN NURSING HOMES

Inga Marković

OXIDATIVE STABILITY OF FOOD PRODUCTS

Sandra Pajurin

PHOTOSYNTHESIS LESSONS FROM THE STUDY OF WHEAT GENOTYPES UNDER CONTRASTING PRODUCTION YEARS

Jurica Duvnjak, Zorana Katanić, Valentina Španić

12:15 – 12:45

Coffee Break, Poster Session

Pauza za kavu, razgledavanje postera

12:45 – 14:00

POZVANA PREDAVANJA I USMENA PRIOPĆENJA - Dvorana Aula Magna

INVITED LECTURES AND ORAL PRESENTATIONS - Aula Magna Hall

Moderatori | *Chairs:* Anita Pichler; Mirela Kopjar

Invited lectures / Pozvana predavanja

EU PROJECT: WITH FOOD TO HEALTH

Nirjana Turkalj, Lenkica Penava

ACTIVE AND INACTIVE LIFESTYLES

Danijela Kuna

Oral presentations / Usmena priopćenja

DO WE KNOW WHAT WE ARE EATING?

Branka Jurčević Zidar, Zlatka Knezović

PESTICIDE RESIDUES IN POTATOES ON CROATIAN MARKET FROM 2016 TO 2022

12:45 – 14:00

Adela Krivohlavek, Iva Palac Bešlić, Magdalena Gavran, Gordana Jurak, Ivana Mandić Andačić, Martina Ivešić, Jasna Bošnjir, Nataša Mikulec, Ksenija Vitale, Irena Žuntar

CONTENT OF AFLATOXIN B1, CHLORIDE, NITRITE AND HEAVY METALS IN MEAT PRODUCTS IN THE AREA OF ZENICA-DOBOJ CANTON, BOSNIA AND HERZEGOVINA

Dženana Hasanbašić, Čamka Kovač, Alma Agić, Amila Šut, Benjamin Čaušević, Amir Ibrahimagić

ENERGY AND NUTRITIONAL VALUE OF DRIED MEAT PRODUCTS AT SANSKI MOST

Smailović Aila, Isaković Senita, Enver Karahmet, Tahmaz Jasmina, Bečić Ervina, Bečić Fahir

14:00

Conference closing

Zatvaranje Skupa

HRVATSKA AGENCIJA ZA POLJOPRIVREDU I HRANU
THE CROATIAN AGENCY FOR AGRICULTURE AND FOOD

Satelitski simpozij: Prehrambene navike djece i odraslih (Dvorana Media)
Satellite symposium: Dietary habits among children and adults (Media Hall)

11:30 – 11:45 **Registration of participants**
Prijava i registracija sudionika

11:45 – 13:15 **PART I** (Media Hall)
Moderators | *Chairs:* Daniela Čačić Kenjerić, Ivana Rumbak

EU MENU METODOLOGIJA U NACIONALNOM ISTRAŽIVANJU PREHRAMBENIH
NAVIKA DOJENČADI I MALE DJECE U REPUBLICI HRVATSKOJ

EU MENU METHODOLOGY IN CROATIAN INFANTS AND CHILDREN SURVEY

Darja Sokolić, Jasna Pucarín Cvetković, Nataša Šarlija, Daniela Čačić Kenjerić,
Ivana Rumbak, Irena Colić Barić

PREHRAMBENE NAVIKE DOJENČADI U HRVATSKOJ

DIETARY HABITS OF INFANTS IN CROATIA

Ana Ilić, Darja Sokolić, Martina Pavlić, Nataša Šarlija, Lidija Šoher, Daniela Čačić
Kenjerić, Ivana Rumbak

ISKUSTVA PARTNERSKIH ZEMALJA

EXPERIENCES OF PARTNER COUNTRIES

13:15 – 14:45 **Lunch break**
Pauza za ručak

14:45 – 16:15

PART II (Media Hall)

Moderators | *Chairs:* Ivana Rumbak, Daniela Čačić Kenjerić

PREHRAMBENE NAVIKE DJECE DOBI 1 DO 5 GODINA U HRVATSKOJ

DIETARY HABITS OF CHILDREN AGE 1 TO 5 IN CROATIA

Martina Pavlič, Nataša Šarlija, Daniela Čačić Kenjerić, Lidija Šoher, Ivana Rumbak, Darja Sokolić

PREHRAMBENE NAVIKE DJECE DOBI 6 DO 9 GODINA U HRVATSKOJ

DIETARY HABITS OF CHILDREN AGE 6 TO 9 IN CROATIA

Lidija Šoher, Darja Sokolić, Martina Pavlič, Nataša Šarlija, Ivana Rumbak
Daniela Čačić Kenjerić

ISKUSTVA PARTNERSKIH ZEMALJA

EXPERIENCES OF PARTNER COUNTRIES

16:15 –16:30

ZAVRŠNA RIJEČ

CLOSING WORDS

Darja Sokolić

POSTERSKA PRIOPĆENJA | POSTER PRESENTATIONS

I. dan / 1st day četvrtak / Thursday 14.9.2023.	
Nutricionizam / Nutrition	
P-01	<p>CHOCOLATE – IN-BETWEEN THE HEALTH AND HEDONISM</p> <p>Đurđica Ačkar, Jurislav Babić, Drago Šubarić, Ante Lončarić, Borislav Miličević, Antun Jozinović</p>
P-02	<p>BREASTFEEDING AND COMPLIMENTARY FEEDING PRACTICES IN GROUP OF INFANTS</p> <p>Ivana Domislović, Daniela Čačić Kenjerić</p>
P-03	<p>BEVERAGE COMSUMPTION AMONG SCHOOL-AGED CHILDREN: CONTRIBUTION TO DAILY ENERGY AND ADDED SUGAR INTAKE</p> <p>Ana Ilić, Ivana Rumbak, Ružica Brečić, Irena Colić Barić, Martina Bituh</p>
P-04	<p>THE ROLE, SIGNIFICANCE, AND PREVENTION OF VITAMIN B9 DEFICIENCY IN UNASANA CANTON CONSUMERS</p> <p>Huska Jukić, Samira Dedić, Aida Džaferović</p>
P-05	<p>FRONT-OF-PACK NUTRITION LABELLING</p> <p>Mirjana Kašaj, Mirjana Lenardić Bedenik, Nada Knežević</p>
P-06	<p>PROMOTING PROPER NUTRITION AMONG HIGH SCHOOL STUDENTS THROUGH INTERNATIONAL ETWINNING PROJECTS</p> <p>Karmen Kokot, Nikola Biškup</p>
P-07	<p>SUSTAINABLE AQUACULTURE FROM STUDENTS' PERSPECTIVES</p> <p>Greta Krešić, Elena Dujmić, Jelka Pleadin, Nikolina Liović</p>
P-08	<p>DESIGNING AND COMPARING DIET PLANS FOR FOOTBALL PLAYERS IN DIFFERENT POSITIONS OF THE GAME</p> <p>Damir Magdić, Kristijan Mihaljev, Ines Banjari, Ivana Flanjak, Daniela Čačić Kenjerić</p>
P-09	<p>NECESSITY FOR NUTRITIONAL EDUCATION IN MEDICAL STUDENTS</p> <p>Mario Oršolić, Stipe Vidović, Alen Imširović, Vedrana Ivić, Marija Heffer</p>
P-10	<p>ANTIOXIDANT DIETARY INTAKE AND SMOKING STATUS IN ADULTS FROM CROATIA AND BOSNIA AND HERZEGOVINA: A CROSS-SECTIONAL STUDY</p> <p>Emma Pancirov, Marina Hublin, Risto Aničić, Maja Miškulin, Daniela Čačić Kenjerić</p>

P-11	MEAL PLANNING AND FREQUENCY OF FRUIT AND VEGETABLE CONSUMPTION IN ORGANISED LIVING COMMUNITIES FOR PEOPLE WITH MENTAL DISORDERS Lidija Šoher, Milica Cvijetić Stokanović, Daniela Kenjerić
P-12	DIFFERENCE IN NUTRITION KNOWLEDGE BETWEEN PROFESSIONAL AND RECREATIONAL ATHLETES Anja Vukomanović, Dominik Lončarić, Ivana Rumora Samarina, Ines Panjkota Krbavčić
Dijetetika i dijetoterapija / <i>Dietetics and diet therapy</i>	
P-13	THE ROLE OF B-COMPLEX VITAMINS IN ORAL HEALTH Barbara Bačun, Dora Galić, Lucija Matić, Christian Kurina, Ivan Lekić, Tatjana Bačun
P-14	INITIAL NUTRITIONAL AND HEALTH STATUS OF PATIENTS WITH COLORECTAL CANCER Nevena Ćorić, Ines Banjari, Inga Marijanović
P-15	THE INFLUENCE OF TYPE AND QUANTITIES OF FERMENTED MILK PRODUCTS, IN PERSONS WITH HYPERINSULINEMIA AND ELEVATED BODY MASS, ON THE DEGREE OF INSULIN RESISTANCE Eleonora Delinikolova, Vezirka Jankuloska, Tatjana Blazevska, Tatjana Kalevska, Tanja Stojanovska, Katerina Temelkowska
P-16	EPICATECHIN AS A POTENTIAL HEPATOPROTECTIVE AGENT IN NAFLD Marija Hefer, Ana Petrović, Tea Omanović Kolarić, Lucija Kuna Roguljić, Tomislav Kizivat, Renata Sikora, Martina Smolić
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