

Conference Programme of 3rd Young Scientists' Day

November 30th, 2021 - Registration

8:30 – 9:00	Participant registration
9:00 – 9:30	Opening ceremony
9:30 – 10:30	Section I.

Section I.

Moderators: Ines Bilić-Ćurčić, associate professor; Ivana Majić, full professor; Elvira Kovač-Andrić, associate professor

9:30 – 9:40	Elementi ponašanja kao rani biomarkeri izloženosti / Behavioural elements as the early biomarkers of exposure (T. Đerđ, D. K. Hackenberger, D. K. Hackenberger, B. K. Hackenberger) – Department of Biology Osijek
9:40 – 9:50	Nacionalno istraživanje prehrambenih navika dojenčadi i male djece 2017-21 / Food Consumption Survey in Infants and Children in Croatia 2017-2021 (L. Šoher, M. Pavlić, M. Jurković, D. Sokolić, D. Kenjeric) – Faculty of Food Technology Osijek
9:50 – 10:00	Utjecaj vrste i strukture krmiva na razvoj probavnog sustava, proizvodne pokazatelje i metabolički profil teladi / Influence of type and structure of feed on digestive system development, production indicators and metabolic profile of calves (M. Ronta) – Faculty of Agrobiotechnical Sciences Osijek
10:00 – 10:10	Razvoj nove metode bazirane na elektroforezi na mikročipu za detekciju β -alanina i L-histidina u dijetetskim suplementima / Development of new microchip electrophoresis method for detection of β-alanine and L-histidine in dietary supplements (I. Pukleš, N. Sakač, B. Matasović, B. Šarkanj, M. Jozanović) – Department of Chemistry Osijek
10:10 – 10:20	Kofein u energetske napitcima i njegovi zdravstveni učinci / Caffeine in energy drinks and its health effects (N. Pavlović, K. Vitale, S. Jokić, M. Miškulin, I. Miškulin) – Faculty of Medicine Osijek
10:20 – 10:30	Mjerenje koncentracije aktivnosti radona u bunarskoj vodi / Radon activity concentration measurements in well water (M. Pavošević, M. Poje Sovilj, V. Radolić, I. Miklavčić) – Department of Physics Osijek
10:30 – 11:00	Coffee Break

Section II.

Moderators: Martina Smolić, full professor; Selma Mlinarić, assistant professor; Tanja Žuna Pfeiffer, associate professor

- 11:00 – 11:10 Raznolikost zajednice makrozoobentosa u planinarskim vodotocima Parka prirode Papuk, Hrvatska / **The presence and distribution of freshwater macroinvertebrates in mountain streams of Papuk Nature Park, Croatia** (V. Ergović, D. Čerba, M. Koh, I. Turković Čakalić, M. Mitrović) – Department of Biology Osijek
- 11:10 – 11:20 Tjelesna aktivnost i procjena boli u donjem dijelu leđa kod studenata sestrinstva i fizioterapije / **Physical activity and evaluation of lower back pain in students of nursing and physiotherapy** (K. Rožac, Š. Mikšić, A. Grgić) – Faculty of Dental Medicine and Health Osijek
- 11:20 – 11:30 Imunološki odgovori i endotelna aktivacija nakon 7-dnevne visokoslane dijeta u zdravih, mladih pojedinaca / **Immune Responses and Endothelial Activation Following 7-Day High-Salt Diet in Young Healthy Individuals** (A. Knezović, N. Kolobarić, I. Drenjančević, Z. Mihaljević, P. Šušnjara, I. Jukić, M. Stupin, A. Kibel, S. Marczi, M. Mihalj, A. Stupin) – Faculty of Medicine Osijek
- 11:30 – 11:40 Razina oksidacijskog stresa u uvjetima intenzivnog fizičkog napora u lovačkih pasmina pasa / **The level of oxidative stress in conditions of intense physical effort in hunting dog breeds** (I. Parčetić-Kostelac, M. Šperanda, T. Florijančić, I. Bošković, D. Bešlo, N. Poljičak Milas, T. Kopačin) – Faculty of Agrobiotechnical Sciences Osijek
- 11:40 – 11:50 Zadovoljstvo poslom medicinskih sestara i tehničara koji izrađuju i postavljaju imobilizacije u Hrvatskoj / **Job Satisfaction of Nurses Technicians who Make and Apply Immobilizations in Croatia** (M. Gašić, Š. Mikšić) – Faculty of Dental Medicine and Health Osijek

Section III.

Moderators: Igor Lukačević, associate professor; Đurđica Ačkar, full professor; Martina Medvidović-Kosanović, associate professor

- 11:50 – 12:00 Proizvodnja lipaze porijeklom iz *Thermomyces lanuginosus*: optimiranje i uvećavanje mjerila bioprocesa / **Lipase production from *Thermomyces lanuginosus*: optimization and scale-up of the bioprocess** (D. Šibalić, M. Tišma) – Faculty of Food Technology Osijek
- 12:00 – 12:10 Teorijsko modeliranje perovskitnih heterostrukture ZnO - BaTiO₃ / **Theoretical modelling of perovskite heterostructures ZnO - BaTiO₃** (I. Kovač, I. Lukačević, M. Mužević, M. Varga Pajtler) – Department of Physics Osijek

12:10 – 12:20	Utjecaj narušenja Lorentzove invarijancije na visokoenergetske gama spektre astrofizičkih izvora / Influence of Lorentz invariance violation on very high energy gamma-ray spectra from astrophysical sources (J. Strišković) – Department of Physics Osijek
12:20 – 12:30	Uporaba anorganskih oksida u fotokatalizi / Application of inorganic oxides in photocatalysis (M. Terzić, P. Živković, J. Kojčinović, D. Tatar, M. Korica, E. Kovač-Andrić) – Department of Chemistry Osijek
12:30 – 12:40	Taloženje kalcijeva oksalata monohidrata i dihidrata s galnom kiselinom / Precipitation of calcium oxalate monohydrate and dihydrate with gallic acid (S. Goman, S. Šafranko, D. Goman, S. Jokić, M. Medvidović-Kosanović, A. Stanković) – Department of Chemistry Osijek
12:40 – 12:50	Procjena toksičnosti aktivne tvari azoksistrobin i komercijalnog pripravka (Quadris®) na ne ciljani organizam tla <i>Enchytraeus albidus</i> / Toxicity evaluation of the active ingredient azoxystrobin and a commercial product (Quadris®) on the non-target soil organism <i>Enchytraeus albidus</i> (M. Kovačević, N. Stjepanović, D.K. Hackenberger, B.K. Hackenberger) – Department of Biology Osijek
12:50 – 13:50	Lunch Break

Section IV.

Moderators: Marina Poje Sovilj, assistant professor, PhD; Martina Medvidović-Kosanović, associate professor; Davor Seifert, associate professor

13:50 – 14:00	Preliminarna histološka analiza dva biomaterijala nakon prezervacije alveole / Preliminary histological analysis of two biomaterials after socket preservation (M. Tomas, M. Čandrić, M. Juzbašić, M. Matijević, Ž. Perić Kačarević) – Faculty of Dental Medicine and Health Osijek
14:00 – 14:10	Asocijativna analiza fenotipskih svojstava heksaploidne pšenice i molekularnih markera / Association analysis of phenotypic traits and molecular markers in hexaploid wheat (S. Kujundžić, S. Vila) – Faculty of Agrobiotechnical Sciences Osijek
14:10 – 14:20	Ekstrakcija bioaktivnih spojeva iz duhanskog otpada / Extraction of bioactive compounds from tobacco waste (M. Banožić, S. Jokić) – Faculty of Food Technology Osijek
14:20 – 14:30	Kemijski sastav organskog industrijskog otpada / Chemical composition of some industrial organic waste (M. Tkalec Kojić, T. Vinković, B. Popović, Z. Lončarić, N. Parađiković) – Faculty of Agrobiotechnical Sciences Osijek

14:30 – 14:40	Razvoj senzora za potenciometrijsko određivanje tiabendazola / Development of the sensor for the potentiometric determination of thiabendazole (K. Bubnjar, M. Budetić, M. Samardžić, A. Dandić, P. Živković, A. Széchenyi, L. Kiss) – Department of Chemistry Osijek
14:40 – 14:50	Senzorske mogućnosti ultratankih BaTiO ₃ nanostrukture prema ugljikovim oksidima temeljene na optičkim signalima / Sensing capabilities of ultrathin BaTiO₃ nanostructures toward carbon oxides based on optical signals (M. Mužević, I. Lukačević, M. Varga Pajtlar) – Department of Physics Osijek

Section V.

Moderators: Lidija Begović, assistant professor; Zvonko Antunović, full professor; Marina Poje Sovilj, assistant professor

14:50 – 15:00	Mikrofiti u poplavnom području Kopačkog rita / Microphytes in the floodplain area of Kopački Rit (N. Bek, T. Žuna Pfeiffer, D. Špoljarić Maronić, F. Stević) – Department of Biology Osijek
15:00 – 15:10	Optimalno opremanje poljoprivrednih gospodarstava sredstvima poljoprivredne mehanizacije / Optimal equipment of agricultural farms by means of agricultural mechanization (D. Zimmer, L. Šumanovac, M. Jurišić) – Faculty of Agrobiotechnical Sciences Osijek
15:10 – 15:20	Model parcijalne ravnoteže stočarske proizvodnje u Republici Hrvatskoj / Partial equilibrium model of livestock production in the Republic of Croatia (D. Kranjac, K. Zmaić, E. Erjavec) – Faculty of Agrobiotechnical Sciences Osijek
15:20 – 15:30	Nalaz oblića <i>Contracaecum</i> sp. u babuškama (<i>Carassius gibelio</i> Bloch, 1782) / Presence of <i>Contracaecum</i> sp. parasites in the Prussian carp (<i>Carassius gibelio</i> Bloch, 1782) (N. Vuić, I. Turković Čakalić, I. Vukšić, D. Čerba) – Department of Biology Osijek

Section VI.

Moderators: Stela Jokić, full professor; Ana Stupin, associate professor; Maja Varga Pajtlar, assistant professor

15:30 – 15:40	Primjena kakaove ljuske u proizvodnji čokolade / Application of cocoa shell in production of chocolate (V. Barišić, I. Flanjak, Đ. Ačkar) – Faculty of Food Technology Osijek
15:40 – 15:50	Inkapsulacija polifenolnih i hlapivih spojeva soka aronije na prehrambena vlakna / Encapsulation of phenolic and volatile

	<p>compounds from chokeberry juice onto dietary fibers (I. Buljeta, A. Pichler, J. Šimunović, M. Kopjar) – Faculty of Food Technology Osijek</p>
15:50 – 16:00	<p>Elektrokemijska detekcija polifenola u realnim uzorcima / Electrochemical detection of polyphenols in real samples (A. Plasajec, D. Glavašević Arbutina, D. Goman, A. Stanković, M. Medvidović-Kosanović) – Department of Chemistry Osijek</p>
16:00 – 16:10	<p>Gastropretektivni učinak spojeva ekstartka češnjaka na epitelno oštećenje izazvano natrijevim taurokolatom u staničnom modelu ulkusne bolesti / Gastroprotective effect of garlic extracts to the epithelial damage caused by sodium taurocholate in a cell culture model of ulcer disease (L. Kuna, M. Zjalić, T. Kizivat, H. Roguljić, V. Ninčević, T. Omanović Kolarić, A. Včev, M. Smolić, R. Smolić) – Faculty of Dental Medicine and Health Osijek</p>
16:10 – 16:20	<p>Procjena uloge ionskih kanala u mehanizmima dilatacije karotidne arterije izazvane protokom miševa Tff3^{-/-}C57BL/6N i njihovih kontrola divljeg tipa na prehrani s malo soli i visokoj soli / Assessment of the role of ion channels in flow-induced dilation mechanisms of a carotid artery in low salt and high salt fed Tff3^{-/-}C57BL/6N mice and their wild type controls (N. Kozina, I. Drenjančević, I. Jukić) – Faculty of Medicine Osijek</p>

Section VII.

Moderators: Ines Drenjančević, full professor; Branko Dmitrović, full professor; Zorana Katanić, assistant professor

16:20 – 16:30	<p>Karakterizacija lipaza iz Burkholderia cepacia i Pseudomonas fluorescens / Characterization of lipases from Burkholderia cepacia and Pseudomonas fluorescens (M. Ostožić, S. Budžaki, I. Strelec) – Faculty of Food Technology Osijek</p>
16:30 – 16:40	<p>Inhibicija biosinteze glikolipida utječe na inzulinsku signalizaciju / Inhibition of glycolipid biosynthesis affects insulin signalling (M. Zjalić, M. Heffer) – Faculty of Medicine Osijek</p>
16:40 – 16:50	<p>Molekularni mehanizmi bubrežnog učinka liraglutida na stanični model proksimalnih tubularnih stanica / Molecular mechanisms of renal effect of Liraglutide on cellular model of proximal tubular cells (V. Ninčević, T. Omanović Kolarić, M. Zjalić, L. Kuna, M. Smolić, A. Včev, I. Bilić Ćurčić) – Faculty of Dental Medicine and Health Osijek</p>
16:50 – 17:00	<p>$\gamma\delta^{\text{hi}}$ i $\gamma\delta^{\text{int}}$ T stanične linije nesrazmjerno su promijenjene u krvi i koži pacijenata s vulgarnom psorijazom / The $\gamma\delta^{\text{hi}}$ and $\gamma\delta^{\text{int}}$ T cell subsets and disproportionally altered in blood and skin of vulgar psoriasis patients (M. Jirouš, M. Štefanić, M. Šola, B. Viljetić, T. Opačak-</p>

17:00 – 17:10	<p>Bernardi, V. Plužarić, M. Mihalj, K. Glavaš, M. Tolušić Levak, P. Balogh, S. Tokić) – Faculty of Medicine Osijek</p> <p>Varijante gena za progesteronski receptor u modulaciji rizika spontanog prijevremenog porođaja / Genetic variations of progesterone receptor in modulation of risk for spontaneous premature birth (M. Kadivnik, K. Kralik, A. Muller, S. Šijanović, J. Wagner Kostadinović) – Faculty of Medicine Osijek</p>
17:10 – 17:20	<p>Trajni pozitivan učinak edukacijske intervencije na znanje i stavove o kemoprevenciji raka dojke / Sustained positive effect of educational intervention on breast cancer chemoprevention knowledge and attitudes (S. Vukadin, K. Bojanić, F. Šarčević, K. Grgić, L. Malenica, K. Kralik, R. Smolić, M. Smolić) – Faculty of Dental Medicine and Health Osijek</p>

3rd Young Scientists' Day - Conference Closing

17:20 – 17:30	Conclusions and Conference Closing
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