



POSTER SESSIONS

- > The E-POSTERS sessions are held in front of the Touchscreen TVs in the Congress Hall.
- > The E-POSTERS can be accessed and viewed during the entire Congress.

Thursday, 25th September, from 14:00 to 16:00

POSTER SESSION 1: Biomarkers and therapeutics
development/Molecular basis of disease

POSTER SESSION 2: Biotechnology/Genetics

Friday, 26th September, from 14:00 to 16:00

POSTER SESSION 3: Design and structure of proteins/Regulation
of gene expression/Systems biology and bioinformatics

POSTER SESSION 4: Bioactive compounds and metabolism/Cellular
processes and signalling

POSTER PRESENTATIONS

POSTER SESSION 1

Biomarkers and therapeutics development

- > **Anastasija Panevska**
EryA-mCherry as a specific molecular probe for detecting surface-exposed cardiolipin in apoptotic mammalian cells
- > **Galina Pavlova**
Differentiation therapy as a new multidisciplinary approach to the treatment of human brain glioma
- > **Jovana Stevanović**
Expressions of IL10 and IL6 are upregulated and correlated with miR-21 expression in peripheral blood mononuclear cells of women with gestational diabetes
- > **Mohamed Maki**
Olaparib alleviates Diclofenac induced-hepatocellular toxicity via targeting mitochondria function
- > **Natalia Porebska**
Engineering of the intrinsically fluorescent tetravalent cytotoxic conjugate TetraFHER2-vcMMAE for efficient elimination of HER2+ breast cancer cells.
- > **Nermína Klapuh-Bukvić**
Possibilities of artificial intelligence in blast determination in relapsed acute myeloid leukemia after allogeneic transplantation—case report
- > **Nino Sinčić**
Epigenetic biomarkers associated with offspring mental health following parental exposure to war trauma
- > **Tamara Vasović**
Proteomic identification of biomarker proteins for Campylobacter jejuni detection in poultry
- > **Vladimir Mihailović**
Redox and immunomodulatory effects of silver nanoparticles synthesized using Salvia verticillata L. extracts in human myeloid leukemia cells

POSTER SESSION 1

Molecular basis of disease

- > **Danica Lazić**
Molecular basis of identification Mycobacterium tuberculosis
- > **Faiza Zafar**
Evaluation of barrier dysfunction in Caco-2 and T84 cells exposed to peanut allergens
- > **Jasmina Đuretić**
Cathepsin L inhibition enhances microglial CX3CR1 expression in EAE
- > **Marijana Kovačić**
Salivary immune response to Candida albicans in children with early childhood caries
- > **Marin Kutnjak**
The role of p97 ATPase and SPRTN protease in the repair of DNA-protein crosslinks in human cells and animal model
- > **Marta Popović**
Identifying the molecular causes of neurodegenerative diseases using new animal models created with CRISPR-Cas gene editing
- > **Özlem Darcansoy İşeri**
Transcriptome analysis of propranolol and labetalol applied sensitive and doxorubicin-resistant breast cancer cells
- > **Srdan Kesic**
Blood serum biochemical parameters related to cardiovascular health in peripubertal rats as markers for evaluating the effects of in-utero exposure to ELF-MF
- > **Tamara Babić**
Investigating long non-coding RNA lnc-RNMT-2:5 indicates stromal origin and putative regulatory function in rectal cancer
- > **Vesna Spasovski**
Establishment of an insulin resistance model in HepG2 cells using combined high glucose and insulin treatment

POSTER SESSION 2

Genetics

- > **Azra Kudumović**
Genotypic analysis and characterization of Staphylococcus aureus (MRSA) isolates from skin and mucosal infections in outpatient patients in Canton Sarajevo (January – June 2024)
- > **Dávid Lepár**
The significance of the spermatoproteasome during Drosophila melanogaster spermatogenesis
- > **Maja Milošević**
Association between FADS rs174602 polymorphism and fatty acid profile in plasma of breast cancer patients on aromatase inhibitors
- > **Suzana Matijašević Joković**
Caveolin-1 as potential biomarkers of prostate cancer—Evidence from Serbian population

POSTER SESSION 2

Biotechnology

- > **Ana Popović Bijelić**
Manganese accumulation in the microalga Haematococcus pluvialis
- > **Danilo Četić**
A highly optimized protocol for the isolation and purification of transferrin from human serum
- > **Emerik Galić**
Antioxidative activity of extracts from rocket and spinach biofortified using selenium nanoparticles
- > **Kristina Kasalica**
Adaptation of Pseudomonas sp. enzymatic activity in response to PFOA exposure
- > **Lidija Filipović**
Nanobody-based capture of extracellular vesicles as a diagnostic strategy for prostate cancer
- > **Marija Pavlović**
Recombinant production and application of endo-polygalacturonase II in fruit juice processing
- > **Marija Stanišić**
Immobilization of glucose oxidase by biomineralization using different imidazole derivatives
- > **Marija Stefanović**
A functional screening approach for the identification of gluten-degrading microorganisms
- > **Marina Ristović**
Production of xylooligosaccharides from corn cob using a novel endoglucanase A from Aspergillus tubingensis
- > **Miha Bahun**
A fluorescence-based method for monitoring the proteolysis of native proteins in real time
- > **Milica Crnoglavac Popović**
Optimization of one pot synthesis of laccase@ZIF for highest enzymatic activity achievement
- > **Natalija Petronijević**
Changes in plant enzymatic activity in response to PFOA
- > **Nikolina Popović Kokar**
Green light photopolymerization of L-DOPA-modified alginate for hydrogel formation and microbead-based enzyme immobilization

POSTER SESSION 3

Systems biology and bioinformatics

- > **Matija Ruparčić**
Exploring the function of conoporphins, actinoporin-like proteins from cone snails

POSTER SESSION 3

Regulation of gene expression

- > **Archismita Kundu**
Design of a modular miRNA-sensing based genetic circuit
- > **Berfin Doğa Koçkaya**
Investigation of the effect of selected miRNAs using bioinformatics approaches on AHNAK protein regulation in drug-resistant breast cancer cells

POSTER SESSION 3

Design and structure of proteins

- > **Alexander Osmolovskiy**
Extracellular protease of Aspergillus ochraceus VKM F-4104D: Properties and medical application promises
- > **Ana Radanović**
Amyloid fibrillation and toxic/essential trace elements in Parkinson's disease
- > **Anja Dimić**
Papain and ficin: environmental drivers of amyloid formation
- > **Gregor Spruk**
Engineering of highly stable bryoporin nanopores using genetic code expansion
- > **Jelica Milošević**
Driving forces for the aggregation of misfolded proteins
- > **Milan Prodanović**
Assessing size and aggregation of paraproteins of different isotypes using photon correlation spectroscopy
- > **Neža Koritnik**
Structural adaptation of the potyviral coat protein to accommodate species-specific residues in virions and virus-like particles
- > **Primož Bebmich**
Characterization of the molecular interactions between the DNA-protein cross-link repair proteins p97 and SPRTN
- > **Radivoje Prodanović**
Heterologous expression of human glucose-6-phosphate translocase (SLC37A4) in prokaryotic and yeast systems
- > **Vanja Tatić**
Molecular characterisation of Ostrinia nubilalis antimicrobial peptides
- > **Višnja Kosić**
Selection of redesigned pullulanase variants for enhanced industrial biocatalyst

POSTER SESSION 4

Bioactive compounds and metabolism

- > **Ezster Vámos**
A gut microbiota metabolite: Trimethylamine induces M1-like activation in macrophages
- > **Ivan Mihaljević**
CRISPR-Cas9 knockout of Oatp1d1 reveals its role in zebrafish pigmentation and development
- > **Ljiljana Milovanović**
Cabernet Sauvignon wines as inhibitors of tyrosinase in vitro
- > **Ljubodrag Aleksić**
Iron ion-binding algal chromopeptides as alternatives to transferrin in cell growth media
- > **Mirel Subašić**
Primed to protect: Intercropping with bioprime Silene sendtneri enhances tomato resilience to cadmium
- > **Nikolina Sibinčić**
Optimization of cell-based assays for identifying compounds with anti-inflammatory and anti-allergic activity
- > **Suzana Jovanović-Šanta**
A database of interactions of modified steroids with human cytochromes P450
- > **Tatjana Majkić**
In vitro evaluation of encapsulated elderberry extracts as tyrosinase inhibitors
- > **Tijana Marković**
Antidiabetic potential of Gentiana dinarica root extracts and their active component nortroscavone and its glycoside nortroscavone-1-O-β-D-glucopyranoside
- > **Zehra Kurtanović**
Association of the molybdenum serum concentration with the disease severity in COVID-19 patients

POSTER SESSION 4

Cellular processes and signaling

- > **Beáta Lontay**
Magnesium-dependent-protein phosphatase 1b regulates the protein arginine methyltransferase 5 through the modulation of myosin phosphatase in cervical carcinoma
- > **Borna Bacinger**
The role of ninjurins in plasma membrane rupture
- > **Ivana Drvenica**
An analysis of the relationship between the deformability of erythrocytes and clinical biochemical indicators in patients diagnosed with diabetes mellitus
- > **Khloud Gamal Abdelsalam**
Interaction between human stem cell-derived neural progenitor cells and microglia
- > **Maša Andoljšek**
Studies on the coordinated binding between a hexameric ATPase p97 and its three adaptor proteins involved in DNA-protein crosslink repair
- > **Peter Deak**
MIF tautomerase inhibitor TE-91 inhibits inflammatory cytokine production and activation of ETS2 transcription factor in the chronic inflammatory macrophage model
- > **Selena Milićević**
Uptake of Ara h 1 from raw and thermally processed peanuts, cytokine response, and the modulatory role of peanut lipids in macrophages
- > **Tamara Popović**
Mineral content and fatty acid composition in different kind of diet in Wistar rats liver-correlations