



CoMBoS

1st Congress of Molecular Biologists of Serbia

FINALNI PROGRAM FINAL PROGRAMME



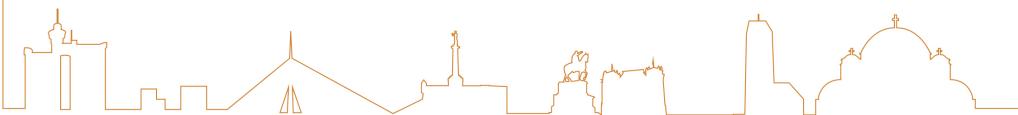
Beograd 2017 / Belgrade 2017





CoMBoS

1st Congress of Molecular Biologists of Serbia



ORGANIZATORI KONGRESA / CONGRESS ORGANIZERS



POKROVITELJI KONGRESA / HONORARY SPONSORS



Ministarstvo prosvete, nauke i
tehnološkog razvoja Republike Srbije /
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naučnoistraživačku delatnost /
Provincial Secretariat for Higher Education and
Scientific Research



MESTO ODRŽAVANJA / CONGRESS VENUE

ZADUŽBINA ILIJE M. KOLARCA / ILIJA M. KOLARAC ENDOWMENT BUILDING
БЕОГРАД, STUDENTSKI TRG 5 / BELGRADE, STUDENT'S SQUARE 5



POZDRAVNO PISMO ORGANIZATORA / WELCOME ADDRESS

Drage kolege,

Srpsko društvo za molekularnu biologiju (MolBioS) želi vam dobrodošlicu na Prvi kongres molekularnih biologa Srbije (CoMBoS). Program kongresa uključuje širok spektar fascinantnih tema iz molekularne biologije i srodnih oblasti i posvećen je stimulisanju radoznanosti, komunikacije i saradnje, posebno među mladim istraživačima. Nadamo se da će CoMBoS doprineti ostvarenju našeg cilja da molekularnim biologima

i naučnicima iz srodnih oblasti pružimo priliku da razmene ideje i budu inspirisani intrigantnim predavanjima renomiranih naučnika i priznatih eksperala iz 24 zemlje (Austrije, Bosne i Hercegovine, Crne Gore, Danske, Francuske, Grčke, Holandije, Hrvatske, Irske, Italije, Kanade, Makedonije, Nemačke, Poljske, Rumunije, Rusije, Sjedinjenih Američkih Država, Slovenije, Španije, Švajcarske, Švedske, Turske, Velike Britanije i Srbije).



Prof. Gordana Matić

Predsednik Srpskog društva za
molekularnu biologiju

President of the Serbian Society for
Molecular Biology



Prof. Goran Brajušković

Predsednik Organizacionog odbora
CoMBoS 2017

Chair of the CoMBoS 2017
Organizing Committee

Dear colleagues,

The Serbian Society for Molecular Biology (MolBioS) warmly welcomes you to Belgrade, Serbia, for the First Congress of Molecular Biologists of Serbia with international participation (CoMBoS). The programme covers a wide spectrum of fascinating contemporary topics in molecular biology and related fields, and is dedicated to fostering curiosity, communication and collaboration, especially among young researchers. We hope that CoMBoS will contribute in fulfilling

our aim of creating an opportunity for molecular biologists and related scientists to exchange ideas and get inspired by state-of-the-art lectures of prominent scientists and acknowledged experts from 24 countries (Austria, Bosnia and Herzegovina, Canada, Croatia, Denmark, France, Germany, Great Britain, Greece, Ireland, Italy, Macedonia, Montenegro, the Netherlands, Poland, Romania, Russia, Slovenia, Spain, Sweden, Switzerland, Turkey, USA and Serbia).

The first CoMBoS is devoted to Academician Dušan Kanazir (1921-2010)

MolBioS is committed to preserving the memory of the great Serbian scientists who paved the way for the fruitful research and education in molecular biology in Serbia. Hence, the first CoMBoS is devoted to Academician Dušan Kanazir (1921-2010), an eminent scientist who played an essential role in the foundation of the Department of Biochemistry and Molecular Biology and the study program Molecular Biology and Physiology at the Faculty of Science, University of Belgrade, in 1972. This study quickly became attractive and acquired distinction, and has served as an incubator for many talented scientists who conduct cutting edge research in modern biology, confirming the efforts of this great visionary. In Memoriam to Academician Dušan Kanazir, warmly written by Prof. Ljubiša Topisirović and originally published in the Archives of Biological Sciences (2010), is presented in the Special Issue of Biologija Serbica dedicated to CoMBoS.

MolBioS Award

The Serbian Society for Molecular Biology (MolBioS) has established its own award in recognition of the achievements of individuals in the field of molecular biology and their contributions to its development and promotion in Serbia. The MolBioS Award is envisioned for an active scientist and will be presented at every subsequent Congress of Molecular Biologists of Serbia, with a closing lecture given by the winner.

The Award Committee, formed by the Steering Committee of the MolBioS unanimously agreed to present the first MolBioS Award to Dr. Gordana Matić, the distinguished professor of Biochemistry and Molecular Biology whose research has focused on steroid biology, with a particular interest in many facets of the glucocorticoid receptor in health and disease. An inspired article about Prof. Gordana Matić, written by her close collaborators Dr. Ana Đorđević and Prof. Goran Brajušković, is presented in the Special Issue of Biologija Serbica dedicated to CoMBoS.

ODBORI KONGRESA / CONGRESS COMMITTEES

POČASNI ODBOR / HONORARY COMMITTEE

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v.d. direktorka, Univerzitet u Beogradu – Institut za molekularnu genetiku i genetičko inženjerstvo
Acting Director, University of Belgrade – Institute for Molecular Genetics and Genetic Engineering

dr Pavle Pavlović

direktor, Univerzitet u Beogradu – Institut za biološka istraživanja „Siniša Stanković“
Director, University of Belgrade – Institute for Biological Research “Siniša Stanković”

dr Vladimir Glišin

profesor u penziji / *retired Professor*

dr Ana Savić

profesorka u penziji / *retired Professor*

dr Dragutin Savić

profesor u penziji / *retired Professor*

dr Ljubiša Topisirović

profesor u penziji / *retired Professor*

dr Radomir Crkvenjakov

profesor u penziji / *retired Professor*

dr Sabera Ruždijić

naučna savetnica u penziji / *retired Principle Research Fellow*

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Predsednik / Chair: **Gordana Matić**

Članovi / Members:

Silvana Andrić	Dragica Radojković
Goran Brajušković	Svetlana Radović
Ana Đorđević	Dušanka Savić-Pavićević
Đorđe Fira	Milena Stevanović
Branko Jovčić	Biljana Stojković
Selma Kanazir	Nikola Tanić
Tatjana Kostić	Branka Vasiljević
Jelena Lozo	Nevena Veljković
Sonja Pavlović	Melita Vidaković
Goran Poznanović	

ORGANIZACIONI ODBOR / ORGANIZING COMMITTEE

Predsednik / Chair: **Goran Brajušković**

Članovi / Members:

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Branko Jovčić	Dušanka Savić-Pavićević
Jelena Lozo	Melita Vidaković

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Miloš Brkušanin	Sanja Kovačević
Biljana Bursać	Milka Malešević
Slobodan Davidović	Jovan Pešović
Miloš Đorđević	Jovana Rajić
Jelena Karanović	Jelena Spasić
Nevena Kotarac	Ana Teofilović

PLENARNI PREDAVAČI / PLENARY SPEAKERS

Vojo Deretić

*University of New Mexico, Department of Molecular Genetics
and Microbiology, Albuquerque, New Mexico, USA*

Lynne-Marie Postovit

University of Alberta, Department of Oncology, Edmonton, Canada

Tomasz Jurkowski

University of Stuttgart, Institute of Biochemistry, Stuttgart, Germany

Aleksandra Trifunović

University of Cologne, CECAD Research Center, Cologne, Germany

Octavian Popescu

*Romanian Academy, Institute of Biology, Bucharest, Romania;
University "Babes-Bolyai", Cluj-Napoca, Romania*

Ivan Topisirović

*McGill University, Lady Davis Institute, Department of Oncology,
Montreal, Canada*

Boris Rogelj

*Jozef Stefan Institute, Department of Biotechnology (B-3),
Ljubljana, Slovenia*

Goran Jovanović

*Imperial College London, Faculty of Natural Sciences,
Department of Life Sciences, London, Great Britain*

Vlatka Zoldoš

University of Zagreb, Faculty of Science, Zagreb, Croatia

PREDAVAČI PO POZIVU / INVITED SPEAKERS

Milena Stevanović

Univerzitet u Beogradu, Institut za molekularnu genetiku i genetičko inženjerstvo /
University of Belgrade, Institute of Molecular Genetics and Genetic Engineering

Melita Vidaković

Univerzitet u Beogradu, Institut za biološka istraživanja „Siniša Stanković“ /
University of Belgrade, Institute for Biological Research "Siniša Stanković"

Dušanka Savić-Pavićević

Univerzitet u Beogradu, Biološki fakultet /
University of Belgrade, Faculty of Biology

Sanja Mijatović

Univerzitet u Beogradu, Institut za biološka istraživanja „Siniša Stanković“ /
University of Belgrade, Institute for Biological Research "Siniša Stanković"

Silvana Andrić

Univerzitet u Novom Sadu, Prirodno-matematički fakultet,
Departman za biologiju i ekologiju /
University of Novi Sad, Faculty of Sciences,
Department of Biology and Ecology

Ana Đorđević

Univerzitet u Beogradu, Institut za biološka istraživanja „Siniša Stanković“ /
University of Belgrade, Institute for Biological Research "Siniša Stanković"

Kosara Smiljanic

Univerzitet u Beogradu, Institut za biološka istraživanja „Siniša Stanković“ /
University of Belgrade, Institute for Biological Research "Siniša Stanković"

Biljana Stojković

Univerzitet u Beogradu, Biološki fakultet /
University of Belgrade, Faculty of Biology

Goran Brajušković

Univerzitet u Beogradu, Biološki fakultet /
University of Belgrade, Faculty of Biology

Snežana Kojić

Univerzitet u Beogradu, Institut za molekularnu genetiku i genetičko inženjerstvo/
University of Belgrade, Institute of Molecular Genetics and Genetic Engineering

Sonja Pavlović

Univerzitet u Beogradu, Institut za molekularnu genetiku i genetičko inženjerstvo /
University of Belgrade, Institute of Molecular Genetics and Genetic Engineering

Marija Mojsin

Univerzitet u Beogradu, Institut za molekularnu genetiku i genetičko inženjerstvo /
University of Belgrade, Institute of Molecular Genetics and Genetic Engineering

Goran Kungulovski

BIO Inženjering doo, Skoplje, Makedonija /
Bio Engineering Ltd., Skopje, Macedonia

Maja Živković

Univerzitet u Beogradu, Institut za nuklearne nauke „Vinča“ /
University of Belgrade, Vinča Institute of Nuclear Sciences

Vladimir Perović

Univerzitet u Beogradu, Institut za nuklearne nauke „Vinča“ /
University of Belgrade, Vinča Institute of Nuclear Sciences

Vladimir Filipović

Univerzitet u Beogradu, Matematički fakultet /
University of Belgrade, Faculty of Mathematics

Branko Jovčić

Univerzitet u Beogradu, Biološki fakultet /
University of Belgrade, Faculty of Biology

Milan Kojić

Univerzitet u Beogradu, Institut za molekularnu genetiku i genetičko inženjerstvo /
University of Belgrade, Institute of Molecular Genetics and Genetic Engineering

Nataša Golić

Univerzitet u Beogradu, Institut za molekularnu genetiku i genetičko inženjerstvo /
University of Belgrade, Institute of Molecular Genetics and Genetic Engineering

Slaviša Stanković

Univerzitet u Beogradu, Biološki fakultet /
University of Belgrade, Faculty of Biology

Lidija Đokić

Univerzitet u Beogradu, Institut za molekularnu genetiku i genetičko inženjerstvo /
University of Belgrade, Institute of Molecular Genetics and Genetic Engineering

Natalija Polović

Univerzitet u Beogradu, Hemijski fakultet /
University of Belgrade, Faculty of Chemistry

Marko Đorđević

Univerzitet u Beogradu, Biološki fakultet /
University of Belgrade, Faculty of Biology

PROGRAM / PROGRAM

20. septembar / September 2017

Mala sala / Small hall

RADIONICE ZA MLADE ISTRAŽIVAČE WORKSHOPS FOR YOUNG INVESTIGATORS

Predsedništvo / Chairs:

Jovan Mirčetić, Marko Panić, Saša Šviković

10.00-12.00

CRISPR/Cas9 tehnologija – činjenice, pitanja i odgovori

Workshop: CRISPR/Cas9 Technology – Facts, Questions and Answers

CRISPR - "Hype and hope" u biološkim istraživanjima

CRISPR - Hype and Hope in Life Sciences

Marko Panić (Nemačka / Germany)

Precizno editovanje genoma primenom CRISPR-Cas9 sistema

Precise Genome Editing Using the CRISPR-Cas9 System

Saša Šviković (Velika Britanija / Great Britain)

Cas9 fuzioni ribonukleoproteini u kontroli genske ekspresije

Cas9-fusion Ribonucleoproteins and Control of Gene Expression

Jovan Mirčetić (Nemačka / Germany)

12.00-13.00

Illumina radionica: Tehnologije sekvenciranja nove generacije

Illumina Workshop: Next Generation Sequencing Technologies

Naslov predavanja će biti naknadno objavljen

The title of the lecture will be announced



CEREMONIJA OTVARANJA KONGRESA

OPENING CEREMONY

Predsedništvo / Chairs:
Gordana Matić, Đorđe Fira, Goran Brajušković

- 15.00-15.20** **Pozdravni govor / Welcome speeches**
- 15.20-15.40** **Omaž akademiku Dušanu Kanaziru, osnivaču Katedre za biohemiju i molekularnu biologiju na Univerzitetu u Beogradu / Homage to Academician Dušan Kanazir, the founder of the Chair for Biochemistry and Molecular Biology at the University of Belgrade**

- 15.40-16.00** **Muzički program / Music program**
- Velika sala Doma omladine /
Main hall, Belgrade Youth Center**

Sekcija PLENARNA PREDAVANJA KONGRESA

Session CONGRESS PLENARY LECTURES

Predsedništvo / Chairs:
Gordana Matić, Ivan Topisirović, Melita Vidaković

- 16.00-16.45** **Autophagy in Mammalian Systems: from Mechanisms to Applications**
Vojo Deretić (SAD / USA)
- 16.45-17.30** **Cellular Plasticity and Cancer**
Lynne-Marie Postovit (Kanada / Canada)
- 17.30-18.15** **Efficient Targeted DNA Methylation with Chimeric dCas9-Dnmt3a-Dnmt3L Methyltransferase**
Tomasz Jurkowski (Nemačka / Germany)

**Hol Velike sale Doma omladine /
Central hall, Belgrade Youth Center**

- 18.15-19.00** **Koktel dobrodošlice / Welcome cocktail**

21. septembar / September 2017

Mala sala / Small hall

Sekcija MOLEKULARNA BIOLOGIJA EUKARIOTA Session MOLECULAR BIOLOGY OF EUKARYOTES

Predsedništvo / Chairs:

Milena Stevanović, Melita Vidaković, Ana Đorđević

Plenarna predavanja / Plenary lectures

- 09.00-09.20** **Uloga ClpXP proteaze u regulaciji homeostaze u mitohondrijama**
The Role of ClpXP Protease in the Regulation of Mitochondrial Homeostasis
Aleksandra Trifunović (Nemačka / Germany)
- 09.20-09.40** **Od rekonstrukcije nukleohistona do retranspozona – retrospektivno putovanje (1977-2017)**
From Nucleohistone Reconstruction to Retransposons – a Retrospective Journey (1977-2017)
Octavian Popescu (Rumunija / Romania)
- 09.40-09.50** Diskusija / Discussion

Predavanja po pozivu / Invited lectures

- 09.50-10.05** **Gen SOX2 – master regulator brojnih ćelijskih procesa**
SOX2 gene – Master Regulator of Numerous Cellular Processes
Milena Stevanović
- 10.05-10.20** **Primena ciljane metilacije DNK indukovane Epi-CRISPR sistemom u reprogramiranju ćelija**
Therapeutic Genome Editing: Use of Epi-CRISPRs-Induced Targeted DNA Methylation for Cell Reprogramming
Melita Vidaković
- 10.20-10.35** **Poreklo i istorijski put uzročne mutacije miotonične distrofije tipa 2**
Origin and Historical Route of Myotonic Dystrophy Type 2 Mutation
Dušanka Savić-Pavićević



10.35-10.50	Apoptoza: pro et contra; novi pogled na terapiju malignih bolesti Apoptosis: pro et contra; New View on Cancer Treatment Sanja Mijatović
10.50-11.00	Diskusija / Discussion
	11.00-11.15
	Pauza / Coffee break
11.15-11.30	Simfonija molekularnih adaptacija Leydigovih ćelija koje proizvode testosteron Symphony of Molecular Adaptation of Testosterone-producing Leydig Cells Silvana Andrić
11.30-11.45	Uloga glukokortikoidnih hormona u metaboličkim poremećajima izazvanim ishranom The Role of Glucocorticoid Hormones in Diet-Induced Metabolic Diseases Ana Đorđević
11.45-12.00	Starenje mozga – molekulske i metaboličke promene The Aging Brain: Molecular and Metabolic Changes Kosara Smiljanić
12.00-12.15	Interakcija između mitohondrijskog i jedarnog genoma: uloga u evoluciji životnih istorija Interaction Between Mitochondrial and Nuclear Genomes: the Role in Life-History Evolution Biljana Stojković
12.15-12.25	Diskusija / Discussion

Usmene prezentacije / Flash presentation

- 12.25-12.30** Đorđević M, Savković U, Lazarević J, Stojković B, Šešlja Jovanović D, Trifunović A. **MITOCHONDRIA PROTEIN CARBONYLATION IN THE SHORT- AND LONG-LIVED LINES OF THE SEED BEETLE (*Acanthoscelides obtectus* Say).**
- 12.30-12.35** Gojković N, Francuski Marčetić Lj, Krtinić B, Milankov V. **FIFTY'S NOT TOO THRIFTY! 5' END OF MITOCHONDRIAL CYTO-CHROME C SUBUNIT I YIELDS FIFTY HAPLOTYPES AND FAILS AS A BARCODE FRAGMENT FOR *Culex pipiens* MOSQUITO IDENTIFICATION (DIPTERA: CULICIDAE).**
- 12.35-12.40** Dudić D, Pajić V, Nikolić A, Ignjatović-Micić D, Delić N, Banović B. **BENCHMARKING AND OPTIMIZATION OF TOOLS FOR RNA-SEQ ANALYSIS OF LOW COVERAGE MAIZE TRANSCRIPTOME DATA.**
- 12.40-12.45** Mandić M, Vučićević Lj, Misirkić-Marjanović M, Jovanović M, Bošnjak M, Perović V, Latinović N, Harhaji-Trajković Lj, Trajković V. **JNK AND ERK DEPENDENT AUTOPHAGY INDUCTION DURING PHORBOL MYRISTATE ACETATE DIFFERENTIATION OF HL-60 LEUKEMIA CELLS.**
- 12.45-12.55** Diskusija / Discussion

13.00-14.00

Poster sekcija MOLEKULARNA BIOLOGIJA EUKARIOTA
Poster Session MOLECULAR BIOLOGY OF EUKARYOTES

Predsedništvo / Chairs:

Danijela Maksimović Ivanić, Nataša Veličković, Jelena Samardžić

1. Anduš S, Nikolić N, Dobričić V, Marjanović A, Raković M, Paunović M. **FRESHWATER SPONGES IN DANUBE AND SAVA RIVERS – MOLECULAR AND MORPHOLOGICAL IDENTIFICATION.** [P1-MBE]
2. Baburski AZ, Andrić SA, Kostić TS. **INVOLVEMENT OF LUTEINIZING HORMONE IN RESETTING OF PERIPHERAL CLOCK IN RAT LEYDIG CELLS.** [P2-MBE]
3. Bećin A, Marinković D, Medar MLj, Andrić SA, Kostić TS. **TIME-DEPENDENT CHANGES IN THE RAT LEYDIG CELLS PRIMARY CULTURE.** [P3-MBE]
4. Bojić-Trbojević Ž, Vilotić A, Jovanović Krivokuća M, Vićovac Lj. **DIFFERENTIAL EXPRESSION OF GALECTIN-1 IN NORMAL AND TRANSFORMED TROPHOBlast.** [P4-MBE]
5. Bošković F, Sorkin R, Wuite G. **EFFECT OF NONSTEROIDAL ANTI-INFLAMMATORY DRUGS ON THE CELL-CELL COMMUNICATION VIA EXTRACELLULAR VESICLES.** [P5-MBE]
6. Bratković T, Modic M, Ortega GC, Drukker M, Rogelj B. **NEURONAL DIFFERENTIATION TRIGGERED BY RETIONOIC ACID INDUCES SNORD115 EXPRESSION AND IS ACCCOMPANIED BY POST-TRANSCRIPTIONAL CHANGES OF SEROTONIN RECEPTOR 2c mRNA.** [P6-MBE]
7. Dakić T, Jevđović T, Lakić I, Jasnić N, Đorđević J, Vujović P. **HYPOTHALAMIC INSULIN EXPRESSION INCREASES AFTER THE SHORT TERM FASTING.** [P7-MBE]
8. Dalmızrak A, Erbaykent Tepedelen B, Ersöz E, Çelik B, Korkmaz M. **THE EFFECT OF BORIC ACID AND BORON DERIVATIVES IN GLIOBLASTOMA.** [P8-MBE]
9. Despić V, Dejung M, Gu M, Krishnan J, Zhang J, Herzl L, Straube K, Gerstein MB, Butter F, Neugebauer KM. **DYNAMIC RNA-PROTEIN INTERACTIONS UNDERLIE THE ZEBRAFISH MATERNAL-TO-ZYGOTIC TRANSITION.** [P9-MBE]
10. Despotović J, Nikolić A, Radojković D, Divac Rankov A. **EFFECTS OF BMP RECEPTOR INHIBITORS ON EARLY DEVELOPMENT OF ZEBRAFISH (*Danio rerio*) EMBRYOS.** [P10-MBE]

11. Đorđević NO, Todorović N, Novaković IT, Pajović SB, Tešević VV. **IN VIVO ANTIOXIDANT CAPACITY OF THREE MERLOT WINES – RELATION TO RESVERATROL AND ANTIOXIDANT ENZYMES.** [P11-MBE]
12. Drakulić D, Marjanović Vićentić J, Krstić A, Švirtlih M, Stevanović M. **ESTABLISHMENT AND INITIAL CHARACTERIZATION OF NT2/D1 CELL CLONES WITH INDUCIBLE SOX2 OVEREXPRESSION.** [P12-MBE]
13. Durmić Pašić A, Ahatović A, Klino D. **AN IMPROVED METHOD FOR DNA EXTRACTION FROM CHEESE.** [P13-MBE]
14. Erbaykent Tepedelen B, Soya E, Korkmaz M. **BORIC ACID REDUCES THE FORMATION OF DNA DOUBLE STRAND BREAKS.** [P14-MBE]
15. Fa S, Vilsbøll Larsen T, Bilde K, Daugaard TF, Ernst EH, Lykke-Hartmann K, Olesen RH, Mamsen LS, Ernst E, Larsen A, Nielsen AL. **ASSESSMENT OF GLOBAL AND GENE-SPECIFIC DNA METHYLATION IN THE FIRST TRIMESTER PLACENTA AND FETAL LIVER EXPOSED TO MATERNAL CIGARETTE SMOKING.** [P15-MBE]
16. Gligorovska Lj, Đorđević A, Bursać B, Teofilović A, Veličković N, Vojnović Milutinović D, Kovačević S, Matić G. **GLUCOCORTICOID-MEDIATED EFFECTS OF MIF DEFICIENCY AND FRUCTOSE-ENRICHED DIET ON LIPID METABOLISM IN THE MOUSE INTRA-ABDOMINAL ADIPOSE TISSUE.** [P16-MBE]
17. Hočević K, Nolić V, Budečević S, Manitašević Jovanović S. **FLOWER COLOR MORPHS OF *Iris pumila* DIFFER IN THE AMOUNT OF HEAT SHOCK PROTEIN 70 AND PIGMENTS WITH ANTIOXIDANT PROPERTIES.** [P17-MBE]
18. Ilić D, Teofilović A, Bursać B, Veličković N, Đorđević A, Vojnović Milutinović D, Nestorov J, Preitner F, Tappy L, Matić G. **THE ROLE OF AMPK IN DIETARY FRUCTOSE- AND STRESS-INDUCED METABOLIC INFLAMMATION.** [P18-MBE]
19. Jakovljević A, Tucić M, Andus PR, Stamenković V. **THE ROLE OF MATRIX METALLOPROTEINASE-9 IN STRUCTURAL PLASTICITY OF MURINE HIPPO-CAMPUS AND RETROSPLENIAL CORTEX IN CONDITIONS OF ENRICHED ENVIRONMENT.** [P19-MBE]
20. Jelača S, Nestorov J, Veličković N, Teofilović A, Đorđević A, Nikolić M, Macut Đ, Božić-Antić I, Matić G, Vojnović Milutinović D. **GLUCOCORTICOID PRERECEPTOR METABOLISM IN THE LIVER OF 5α DIHYDROTESTOSTERONE-TREATED RATS AS ANIMAL MODEL OF POLYCYSTIC OVARY SYNDROME.** [P20-MBE]
21. Jevđović T, Kopanja S, Dakić T, Lakić I, Vujović P, Jasnić N, Đorđević J. **THE EFFECT OF PRENATAL MILD UNPREDICTABLE STRESS ON THE EXPRESSION OF MONOAMINOXIDASE A, BETA 1 AND 2 ADRENERGIC RECEPTORS IN THE HEART OF ADULT FEMALE RAT.** [P21-MBE]

22. Jovanović Stojanov S, Grigorov I, Petrović A, Bogojević D, Ivanović Matić S, Martinović V. **PRO-INFLAMMATORY AND ANTI-INFLAMMATORY ROLE OF HMGB1 IN THE LIVER OF DIABETIC RATS.** [P22-MBE]
23. Jović M, Lončarević-Vasiljković N, Avramović V, Brkić M, Milanović D, Kanazir S. **FISH OIL SUPPLEMENTATION SUPRESSES NEUTRIC DYSTROPHY AND A β PATHOLOGY IN pariетal CORTEX OF 5xFAD MICE.** [P23-MBE]
24. Kanjuh T, Tošić A, Nikolić V, Škraba Jurlina D, Simonović P. **THE MOST RECENT FINDING OF ATLANTIC TROUT INTROGRESSION IN NATIVE BROWN TROUT *Salmo trutta* L. STOCKS OF SERBIA.** [P24-MBE]
25. Kojić A, Jasnić J, Bošković S, Radojković D, Kojić S. **CHARACTERIZATION OF MUSCLE REGULATOR ANKRD1 IN GLIOBLASTOMA CELL LINES U87-MG AND LN229.** [P25-MBE]
26. Koprivica I, Saksida T, Vujičić M, Stošić-Grujičić S, Perović M, Kanazir S, Stojanović I. **IMMUNE RESPONSE WITHIN GUT-ASSOCIATED LYMPHOID TISSUE IN 5xFAD MOUSE MODEL OF ALZHEIMER'S DISEASE.** [P26-MBE]
27. Kovačević-Grujičić N, Davidović S, Malyarchuk B, Aleksić J, Derenko M, Topalović V, Litvinov A, Skonieczna K, Rogalla U, Grzybowski T, Stevanović M. **PHYLOGENY OF MITOCHONDRIAL DNA SUPER-HAPLOGROUP U LINEAGES DETECTED IN SERBIANS.** [P27-MBE]
28. Krga I, Morand C, Boby C, Montfoulet LE, Glibetić M, Milenković D. **MIXTURES OF ANTHOCYANINS AND THEIR GUT METABOLITES ATTENUATE MONOCYTE ADHESION AND TRANSENDOTHELIAL MIGRATION THROUGH NUTRIGENOMIC MECHANISMS REGULATING ENDOTHELIAL CELL PERMEABILITY.** [P28-MBE]
29. Kuzmanović M, Ramić J, Lojo-Kadrić N, Haverić A, Hadžić M, Haverić S, Pojskić L. **EVALUATION OF ANTIOXIDATIVE EFFECT OF L-CARNITINE WITH VITAMIN B6 FOOD SUPPLEMENT IN CULTURED LYMPHOCYTES.** [P29-MBE]
30. Lesjak M, Balesaria S, Skinner V, Debnam ES, Singh Srai SK. **MECHANISMS OF INTESTINAL NON-HAEM IRON ABSORPTION BY QUERCETIN.** [P30-MBE]
31. Mandić M, Rajković M, Nikolić T, Vukašinović E, Kojić D, Purać J. **IN VITRO CULTIVATION OF HONEY BEE MIDGUT AND THE EFFECT OF ACUTE PARAQUAT EXPOSURE.** [P31-MBE]
32. Marinović MA, Bekić SS, Petri ET, Ćelić AS. **MOLECULAR DOCKING AND FLUORESCENT YEAST ASSAY IN TARGETING POTENTIAL STEROID RECEPTOR LIGANDS.** [P32-MBE]
33. Martinović V, Jovanović Stojanov S, Bogojević D, Ivanović-Matić S, Petrović A, Poznanović G, Grigorov I. **EFFECT OF MELATONIN ON OXIDATIVE AND INFLAMMATORY STRESS IN SPLEEN AND LIVER OF STREPTOZOTOCIN-INDUCED DIABETIC RATS.** [P33-MBE]

34. Medar MLJ, Baburski AZ, Andrić SA, Kostić TS. **IMMOBILIZATION STRESS RESETS THE CIRCADIAN RHYTHM OF THE ENDOCRINE FUNCTION OF RAT LEYDIG CELLS.** [P34-MBE]
35. Mićić B, Tenji D, Kaišarević S, Brkić D, Gašić S, Teodorović I. **INDUCTION OF CYTOCHROME P450 1A AND 1B ACTIVITY BY CYPERMETHRIN AND ITS COMMERCIAL MIXTURES AND THEIR INFLUENCE ON EXPRESSION OF THE CORRESPONDING GENES.** [P35-MBE]
36. Mihajlović M, Radojičić V, Keckarević Marković M, Kecmanović M, Keckarević D. **PREDICTIVE DNA ANALYSIS: ASSESSMENT OF IRISPLEX SNPs FOR EYE COLOR PREDICTION IN SERBIAN POPULATION.** [P36-MBE]
37. Mihović N, Matić S, Stanić S, Stanković N, Mladenović M. **DNA CONSERVATION BY HESPERETIN: THE MECHANISM OF INHIBITION OF EMS-INDUCED ALKYLATION.** [P37-MBE]
38. Milošević M, Lazarević M, Trišić D, Simonović J, Toljić B, Petrović M, Milašin J. **THE CORRELATION BETWEEN CD44 EXPRESSION AND SPHERES CHARACTERISTICS.** [P38-MBE]
39. Mišić J, Milenković D, Matić S, Larsson NG. **ELUCIDATING IN VIVO ROLES OF NUCLEASES MGME1 AND DNA2 FOR MITOCHONDRIAL DNA REPLICATION.** [P39-MBE]
40. Nikolić D, Nešić S, Bosnić D, Ćuković K, Nikolić M, Samardžić J. **AMELIORATIVE EFFECTS OF SILICON IN IRON DEFICIENT BARLEY.** [P40-MBE]
41. Nikolić I, Bosnić D, Nikolić D, Samardžić J, Maksimović V, Timotijević G. **EXPRESSION ANALYSIS OF A THE GENE ENCODING DSS1 PROTEIN IN *Arabidopsis* UNDER OXIDATIVE STRESS.** [P41-MBE]
42. Nikolin B, Gagić M, Kecmanović M, Keckarević D, Janaćković P, Gavrilović M, Rajčević N, Keckarević Marković M. **MORPHOLOGICAL AND MICROMORPHOLOGICAL IDENTIFICATION OF *Cannabis* POLLEN AND CONFIRMATION OF MARIJUANA IN FORENSIC TRACES BY THCA SYNTHASE GENE ANALYSIS.** [P42-MBE]
43. Petrović A, Ivanović Matić S, Bogojević D, Martinović V, Korać A, Jovanović Stojanov S, Stevanović J, Grigorov I. **INHIBITION OF HMGB1 RELEASE DECREASES BOTH APOPTOTIC AND AUTOPHAGIC ACTIVITY IN THE HEPATOCYTES AND REDUCES LIVER INJURY IN STREPTOZOTOCIN TREATED RATS.** [P43-MBE]
44. Petrović V, Živković J, Keckarević Marković M, Kecmanović M, Keckarević D. **ASSESSMENT OF MUTATION RATES FOR PPY23 STR LOCI IN SERBIAN FATHER-SON PAIRS.** [P44-MBE]

45. Popović S, Deljanin M, Todorović D, Zarić M, Đurđević P, Popović A, Baskić D. **IMMUNOMODULATORY ACTION OF *Chelidonium majus* ETHANOLIC EXTRACT: EMERGENCE OF UNCONVENTIONAL POPULATIONS OF PERIPHERAL BLOOD CELLS.** [P45-MBE]
46. Radović SM, Marković AZ, Milošević MM, Starovlah IM, Capo I, Nef S, Kostić TS, Andrić SA. **THE ABSENCE OF INSULIN AND IGF1 RECEPTORS IN LEYDIG CELLS DISTURBS TRANSCRIPTION OF MAIN MARKERS OF SEXUAL DETERMINATION AND DEVELOPMENT AS WELL AS MITOCHONDRIAL BIOGENESIS IN SEMINIFEROUS TUBULES OF PREPUBERTAL MICE.** [P46-MBE]
47. Radović SM, Starovlah IM, Nef S, Kostić TS, Andrić SA. **THE EXPRESSION OF KEY REGULATORS OF MITOCHONDRIAL BIOGENESIS IS DISTURBED IN STEROIDOGENIC CELLS OF PREPUBERTAL TESTES, BUT NOT OVARIES IN MICE WITH DELETION OF GENES FOR INSULIN AND IGF1 RECEPTORS IN STEROIDOGENIC TISSUES.** [P47-MBE]
48. Rajić J, Grdović N, Inić-Kanada A, Stein E, Schuerer N, Uskoković A, Ghasemian E, Dinić S, Mihailović M, Arambašić Jovanović J, Tolić A, Sinadinović M, Đorđević M, Poznanović G, Barisani-Asenbauer T, Vidaković M. ***Chlamydia trachomatis* INFECTION AND DEVELOPMENT OF EPITHELIAL MESENCHYMAL TRANSITION IN CONJUNCTIVA: POSSIBLE EPIGENETIC MECHANISMS UNVEILED.** [P48-MBE]
49. Seke M, Petrović D, Labudović Borović M, Jović D, Borišev I, Kanački Z, Žikić D, Đorđević A. **FULLERENOL/IRON NANOCOMPOSITE MODULATES DOXORUBICIN INDUCED HEPATOTOXICITY.** [P49-MBE]
50. Šešlja Jovanović D, Ostojić I, Matić G, Đorđević M, Savković U, Lazarović J, Stojković B. **Hsp 70 EXPRESSION LEVEL IN SHORT- AND LONG-LIVED POPULATIONS OF THE SEED BEETLE (*Acanthoscelides obtectus* Say).** [P50-MBE]
51. Sinadinović M, Arambašić Jovanović J, Tolić A, Đorđević M, Mihailović M, Grdović N, Uskoković A, Rajić J, Poznanović G, Dinić S, Jurkowski TP, Vidaković M. **TRANSDIFFERENTIATION OF PANCREATIC ALPHA TO BETA CELLS USING EPI-CRISPR DIRECTED DNA METHYLATION.** [P51-MBE]
52. Smiljković M, Stojković D, Kostić M, Zoumpoulakis P, Golić Grdodolnik S, Sanković-Babić S, Glamočlija J, Soković M. **COULD N-(2-nitooxyethyl)-1H-indol-2-carboxamide BECOME NOVEL ANTICANDIDAL AGENT?** [P52-MBE]
53. Stamenković N, Jasnić J, Bošković S, Radojković D, Kojić S. **EXPRESSION OF *ldb3a* GENE IN MECHANICAL STRESS RESPONSE OF ZEBRAFISH (*Danio rerio*) SKELETAL MUSCLE.** [P53-MBE]

54. Starovlah IM, Radović SM, Patricio D, Kostić TS, Andrić SA. **PROFILE OF MITOCHONDRIAL BIOGENESIS MARKERS AND ACROMOSOMAL REACTION ARE DISTURBED IN SPERMATOZOA FROM STRESSED ADULT RATS.** [P54-MBE]
55. Stefanović B, Spasojević N, Jovanović P, Dronjak S. **MELATONIN MODULATE CATECHOLAMINE BIOSYNTHESIS AND RE-UPTAKE IN ADRENAL MEDULLA OF RATS EXPOSED TO CHRONIC UNPREDICTABLE MILD STRESS.** [P55-MBE]
56. Švrtlih M, Vuković V, Milivojević M, Stevanović M, Mojsin M. **HISTONE MARKS ON THE PROMOTERS OF HUMAN OCT4 AND NANOG GENES IN THE EARLY PHASES OF NEURAL DIFFERENTIATION OF NT2/D1 CELLS.** [P56-MBE]
57. Tanasić V, Gagić M, Keckarević Marković M, Keckarević D, Kecmanović M. **ANALYSIS OF MITOCHONDRIAL DNA CONTROL REGION IN THE DOMESTIC DOG.** [P57-MBE]
58. Taški-Ajduković K, Ćurčić Ž, Nagl N, Isakov M, Jevtić A. **GENETIC DIVERSITY ANALYSIS USING MICROSATELLITE MARKERS FOR SELECTION OF POLLINATORS IN HYBRID SUGAR BEET BREEDING.** [P58-MBE]
59. Tenji D, Sipos Š, Mićić B, Knežević V, Kaišarević S, Teodorović I. **EXPRESSION OF STRESS AND ENDOCRINE DISRUPTION RELATED GENES IN LIVER OF CAGED COMMON CARP (*Cyprinus carpio* (L.), CYPRINIDAE) - ASSESSING *IN SITU* EFFECTS OF UNTREATED SEWAGE INTO THE RIVER DANUBE.** [P59-MBE]
60. Todorović S, Mladenović-Đorđević A, Smiljanić K, Kanazir S. **LONG TERM DIETARY RESTRICTION MODULATES INSULIN SIGNALING PATHWAY IN AGING BRAIN.** [P60-MBE]
61. Trajković M, Jeknić Z, Antonić D, Subotić A, Jevremović S, Cingel A. **AGROBACTERIUM-MEDIATED GENETIC TRANSFORMATION OF *Viola cornuta*.** [P61-MBE]
62. Tubić J, Marković A, Radović Jakovljević M, Ćirić A, Grujičić D, Ranjković B, Kosanić M, Stanojković T, Milošević-Đorđević O. **CHEMICAL COMPOSITION AND BIOLOGICAL ACTIVITIES OF ACETONE EXTRACTS OF *Hydnum repandum* AND *Craterellus cornucopioides* MUSHROOMS.** [P62-MBE]
63. Uzelac I, Avramov M, Krivokuća N, Vukašinović E, Purać J, Kojić D, Popović ŽD. **ACTIVITY OF LACTATE DEHYDROGENASE AND CITRATE SYNTHASE IN THE LIFE CYCLE OF THE EUROPEAN CORN BORER *Ostrinia nubilalis* Hbn.** [P63-MBE]
64. Vilotić A, Jovanović Krivokuća M, Bojić-Trbojević Ž, Vićovac Lj. **DIFFERENT FORMS OF MIIF ARE EXPRESSED AND SECRETED BY CHORIOCARCINOMA AND NORMAL TROPHOBlast CELLS.** [P64-MBE]

Sekcija BIOMEDICINA (In memoriam Stanka Romac)
Session BIOMEDICINE (*In memoriam Stanka Romac*)

Predsedništvo / Chairs:
Dragica Radojković, Selma Kanazir, Maja Stoiljković

Plenarna predavanja / Plenary lectures

- 14.00-14.20** **Translaciona kontrola energetske homeostaze**
 Translational Control of Energy Homeostasis
 Ivan Topisirović (Kanada / Canada)
- 14.20-14.40** **Pogrešna lokalizacija i agregacija RNK-vezivnih proteina kod ALS i FTLD**
 Mislocalization and Aggregation of RNA Binding Proteins in ALS and FTLD
 Boris Rogelj (Slovenija / Slovenia)
- 14.40-14.50** Diskusija / Discussion

Predavanja po pozivu / Invited lectures

- 14.50-15.05** **Genetička osnova karcinoma prostate – studije asocijacija**
 Genetic Basis of Prostate Cancer: Association Studies
 Goran Brajušković
- 15:05-15.20** **Zebrica (*Danio rerio*) u istraživanju molekularnih mehanizama bolesti čoveka**
 *Zebrafish (*Danio rerio*) in Deciphering Molecular Mechanisms of Human Diseases*
 Snežana Kojić
- 15.20-15.35** **Genomika kao osnova za personalizovanu medicinu**
 Genomics as a Basis for Precision Medicine
 Sonja Pavlović
- 15.35-15.50** **Geni SOX kao prognostički markeri i potencijalne terapeutiske mete u malignim bolestima**
 SOX genes as prognostic markers and potential therapeutic targets in cancer
 Marija Mojsin
- 15.50-16.00** Diskusija / Discussion

16.15-16.30	"TransEpiGen-omski" pristup u kardiovaskularnim bolestima: dešifrovanje genetičke osnove kompleksnih bolesti "TranEpiGen-omics" in Cardiovascular Diseases Research: Unraveling the Genetic Basis of Complex Diseases Maja Živković
16.30-16.45	Personalizovana medicina i dijagnostika bazirana na sekvenciranju kompletног egzoma i genoma Personalized and Diagnostic Based on Whole Exome and Whole Genome Next Generation Sequencing Goran Kungulovski (Makedonija / Macedonia)
16.45-17.00	Anotacija funkcionalnog uticaja kodirajućih genetičkih varijanti Annotation of the Functional Impact of Coding Genetic Variants Vladimir Perović
17.00-17.15	Optimizacija, klasifikacija i redukcija dimenzionalnosti u biomedicini i bioinformatici Optimization, Classification and Dimensionality Reduction in Biomedicine and Bioinformatics Vladimir Filipović
17.15-17.25	Diskusija / Discussion

Usmene prezentacije / Flash presentation

17.25-17.30	Kožik B, Kokanov N, Knežević-Ušaj S, Nikolić I, Davidović R, Jovanović Ćupić S, Krajanović M. COMBINED ANALYSIS OF p16 AND p14 METHYLATION AND VEGF EXPRESSION STATUS COULD PREDICT MORE AGGRESSIVE PHENOTYPE OF LOCALLY ADVANCED RECTAL CANCERS.
17.30-17.35	Pešović J, Perić S, Brkušanin M, Brajušković G, Rakočević-Stojanović V, Savić-Pavićević D. MOLECULAR GENETIC CHARACTERIZATION OF MYOTONIC DYSTROPHY TYPE 1 PATIENTS CARRYING VARIANT REPEATS WITHIN DMPK EXPANSIONS.
17.35-17.40	Skadić I, Radinović K, Stojković O. ANALYSIS OF CYTOCHROME P450 2D6 FUNCTIONAL VARIANTS IN SERBIAN HUMAN POPULATION.
17.40-17.50	Diskusija / Discussion

18.00-19.00

Poster sekcija BIOMEDICINA

Poster Session BIOMEDICINE

Predsedništvo / Chairs:

Nevena Veljković, Aleksandra Stanković, Tatjana Kostić

1. Adler M, Zawada I, Borecki K, Salkić NN, Karakiewicz B, Adler G. **LCT c.-13910C>T (rs4988235) and c.-22018G>A (rs182549) POLYMORPHISMS LINKED TO ADULT-TYPE LACTOSE INTOLERANCE IN POLISH AND BOSNIAN SUBJECTS WITH AND WITHOUT CROHN'S DISEASE.** [P1-BM]
2. Aleksić N, Đurović J, Stojković O, Radojević M. **ASSOCIATION OF HNF1B GENE POLYMORPHISM (rs4430796) WITH ENDOMETRIAL CARCINOMA.** [P2-BM]
3. Andđelković M, Spasovski V, Vreća M, Minić P, Sovtić A, Rodić M, Višekruna J, Stojiljković M, Skakić A, Pavlović S. **MOLECULAR CHARACTERIZATION OF PATIENTS WITH PRIMARY CILIARY DYSKINESIA REVEALED NOVEL GENETIC VARIANT IN DNAI1 GENE.** [P3-BM]
4. Babić T, Mark K, Dragičević S, Milošević K, Nestorović B, Beškoski V, Nikolić A. **ANALYSIS OF PROTEOMIC PROFILES OF BLOOD LEUKOCYTES IN RESPONSE TO DAPSONE.** [P4-BM]
5. Beara I, Majkić T, Lesjak M, Mimica-Dukić N. **POLYPHENOLS FROM RED WINES AS MODULATORS OF PROSTAGLANDIN E₂ AND THROMBOXANE A₂ PRODUCTION IN INFLAMMATION.** [P5-BM]
6. Bogavac I, Rakonjac M. **LANGUAGE AND COGNITIVE PHENOTYPE OF TURNER SYNDROME.** [P6-BM]
7. Borecki K, Zawada I, Salkić NN, Karakiewicz B, Adler G. **THE NOD2 SINGLE NUCLEOTIDE POLYMORPHISM c.2104C>T (rs2066844) IN POLISH AND BOSNIAN CROHN'S DISEASE PATIENTS AND CONTROLS.** [P7-BM]
8. Božić Nedeljković B, Zeljić K, Elkilany A, Šupić G, Šurbatović M, Đordjević D, Magić Z. **VITAMIN D RECEPTOR AND TOLL-LIKE RECEPTORS GENE POLYMORPHISMS IN SEPSIS.** [P8-BM]
9. Brkušanin M, Kosać A, Jovanović V, Pešović J, Brajušković G, Milić Rašić V, Savić-Pavićević D. **SYNERGISTIC INFLUENCE OF THE SMN2 AND SERF1A GENE COPY NUMBER ON CHILDHOOD-ONSET SPINAL MUSCULAR ATROPHY.** [P9-BM]

10. Buzadžić I, Milošević Đerić A, Popović J. **POLYMORPHISM IN THE GENE FOR THE SEROTONIN TRANSPORTER (SERT OR 5-HTT) AFFECTS OR NOT THE TREATMENT OF DEPRESSION.** [P10-BM]
11. Čarkić J, Nikolić N, Eljabo N, Antunović M, Milašin J, Popović B. **TP53 AND hTERT METHYLATION AND EXPRESSION IN ORAL CANCER.** [P11-BM]
12. Cumbo M, Dunjić S, Tomić B, Pruner I, Gvozdenov M, Aralica G, Radojković D, Kapitanović S, Cacev T, Đorđević V. **THE VARIANTS IN 3'END OF PROTHROMBIN GENE IN PATIENTS WITH SPORADIC COLON ADENOCARCINOMA.** [P12-BM]
13. Davidović R, Božović A, Stefanović I, Kovačević R, Šumanja N, Balvanović R, Perović V. **MethSpec: A COMPUTATIONAL TOOL FOR EVALUATION OF METHYLATION SPECIFIC PCR PRIMER SPECIFICITY.** [P13-BM]
14. Đedović N, Stanisavljević S, Jevtić B, Timotijević G, Momčilović M, Mostarica Stojković M, Miljković Đ. **TOLEROGENIC DENDRITIC CELLS IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS.** [P14-BM]
15. Đorić I, Rončević J, Šeletmetjev S, Janković J, Božić V, Cvejić D. **MMP9 (-1562 C/T) GENE POLYMORPHISM ASSOCIATES WITH INCREASED MMP-9 LEVEL AND PAPILLARY THYROID CARCINOMA PROGRESSION.** [P15-BM]
16. Đurović J, Stamenković G, Todorović J, Aleksić N, Stojković O. **ANALYSIS OF VDR GENE POLYMORPHISMS IN WOMEN WITH UNEXPLAINED INFERTILITY.** [P16-BM]
17. Džehverović M, Ahatović A, Pilav A, Pojskić N, Marjanović D, Čakar J. **TARGETED GENE PANEL PROFILING AS A BASIS FOR INDIVIDUAL PROGRAM OF NUTRITION AND EXERCISES.** [P17-BM]
18. Efinska Mladenovska O, Sibinovska O, Trajkov D, Hristomanova Mitkovska S, Kirijas M, Petlichkovski A. **FAMILIAL MEDITERRANEAN FEVER MOLECULAR TESTING IN REPUBLIC OF MACEDONIA.** [P18-BM]
19. Elez-Burnjaković N, Ugrin M, Obradović J, Miletić N, Račić M, Kuljić M, Pavlović S, Jurišić V. **INVESTIGATION OF EPIDERMAL GROWTH FACTOR RECEPTOR POLYMORPHISM OF LUNG CANCER PATIENTS.** [P19-BM]
20. Eljabo N, Nikolić N, Čarkić J, Lazarević M, Jelovac D, Aničić B, Milašin J. **p14 AND p16 METHYLATION IN ORAL CANCER.** [P20-BM]
21. Erbaykent Tepedelen B, Korkmaz M, Tatlısumak E, Uluer ET, Ölmez E, İnan S. **A STUDY ON THE ANTICARCINOGENIC EFFECTS OF CALCIUM FRUCTOBORATE.** [P21-BM]
22. Gašić V, Kotur N, Stanković B, Zukić B, Tošić N, Janić D, Dokmanović L, Krstovski N, Lazić J, Milošević G, Pavlović S. **PHARMACOGENOMIC BIOMARKERS OF GLUCOCORTICOID SENSITIVITY AND DISEASE OUTCOME IN CHILDHOOD ACUTE LYMPHOBLASTIC LEUKEMIA.** [P22-BM]

23. Grbić M, Kartelj A, Matić D, Filipović V. **A LOCAL SEARCH BASED HEURISTIC FOR CLUSTERING LARGE BIOLOGICAL NETWORKS INTO HIGHLY CONNECTED COMPONENTS.** [P23-BM]
24. Gužvić M, Kirsch S, Polzer B, Lahrmann U, Braun B, Czyż Z, Feliciello G, Werner-Klein M, Burger M, Klein CA. **COMBINED ANALYSIS OF GENOME AND TRANSCRIPTOME OF SINGLE DISSEMINATED PROSTATE CANCER CELLS REVEALS UNEXPECTED TRANSCRIPTOME PLASTICITY.** [P24-BM]
25. Gvozdenov M, Tomić B, Peters BA, Pruner I, Radojković D, Drmanac R, Djordjević V. **FIRST INSIGHTS INTO THE WHOLE GENOME SEQUENCING RESULTS IN PROTHROMBIN BELGRADE MUTATION CARRIERS.** [P25-BM]
26. Hadžić M, Lojo-Kadrić N, Haverić A, Haverić S, Ramić J, Galić B, Pojskić L. **MODULATORY EFFECTS OF BIOFLAVONOIDS ON HALOGENATED BOROXINE TREATMENT IN CULTURED LYMPHOCYTES.** [P26-BM]
27. Hasković E, Omerović A, Fočak M, Islamagić E, Kasumagić-Halilović E. **COMPARISON OF IgE CONCENTRATIONS AND EPICUTANEOUS AEROALLERGEN SENSITIZATION IN PATIENTS WITH ATOPIC DERMATITIS.** [P27-BM]
28. Haverić A, Čakar J, Hadžić M, Haverić S. **CYTOTOXICITY EVALUATION OF *Micromeria pulegium* (Rochel) Benth EXTRACT IN HUMAN GR-M MELANOMA.** [P28-BM]
29. Išić-Denčić T, Bartolome A, Šelemenjev S, Đorić I, Tatić S, Živaljević V, Cvejić D. **CONCOMITANT HIGH EXPRESSION OF β-CATENIN AND EGFR ASSOCIATE WITH UNFAVOURABLE CLINICAL FEATURES OF PAPILLARY THYROID CARCINOMA.** [P29-BM]
30. Jelenković A, Stevanović V, Kardum N, Zeković M, Glibetić M. **ARONIA JUICE SUPPLEMENTATION AND ITS ACUTE EFFECT ON PLATELET ACTIVATION MARKERS IN HALF MARATHON RUNNERS.** [P30-BM]
31. Jelovac D, Eljabo N, Gnan C, Allegri L, Baldan F, Mio C, Franzoni A, Milašin J. **COMPARATIVE GENOMIC HYBRIDIZATION ANALYSIS OF TUMOR AND TUMOR MARGIN IN PATIENTS WITH ORAL CANCER - A PILOT STUDY.** [P31-BM]
32. Jovanović-Ćupić S, Kokanov N, Petrović N, Krajnović M, Kožik B, Kojić M, Stamenković G. **THE INFLUENCE OF BASELINE VIRAL AND HOST FACTORS ON THERAPY RESPONSE IN PATIENTS WITH CHRONIC HEPATITIS C GENOTYPE 1B FROM SERBIA.** [P32-BM]
33. Jovanović-Krivočuća M, Abu Rabi T, Stefanoska I, Vrzić-Petronijević S, Petronijević M, Vićovac Lj. **BINDING OF IMMUNOGLOBULINS FROM SERA OF PATIENTS WITH ANTIPHOSPHOLIPID SYNDROME TO HTR-8/SVneo TROPHOBlast CELL LINE REDUCES MEDIATORS OF CELL INVASION.** [P33-BM]

34. Kannosh I, Staletović D, Toljić B, Petrović M, Milašin J. **INCIDENCE OF ORAL PATHOGENS IN BLOOD VESSELS OF PATIENTS WITH ATHEROSCLEROSIS-AGE RELATED CHANGES.** [P34-BM]
35. Karan-Đurašević T, Vuković V, Tošić N, Kostić T, Marjanović I, Perić J, Antić D, Mihaljević B, Pavlović S. **ASSOCIATION OF SLC28A3 GENE EXPRESSION AND CYP2B6*6 ALLELE WITH THE RESPONSE TO FLUDARABINE PLUS CYCLOPHOSPHAMIDE IN CHRONIC LYMPHOCYTIC LEUKEMIA PATIENTS.** [P35-BM]
36. Karanović J, Ivković M, Pantović M, Damjanović A, Jovanović V, Brajušković G, Savić-Pavićević D. **JOINT EFFECTS OF VARIANTS IN RNA EDITING AND SEROTONERGIC SYSTEM GENES AND STRESSFUL LIFE EVENTS IN PREDISPOSITION FOR SUICIDE ATTEMPT IN PSYCHIATRIC PATIENTS.** [P36-BM]
37. Kardum N, Stevanović V, Jelenković A, Zeković M, Glibetić M. **ARONIA JUICE SUPPLEMENTATION IN HALF MARATHON RUNNERS: CAN IT ACTUALLY AFFECT THE RATE OF PLATELET AGGREGATION?** [P37-BM]
38. Klaassen K, Đorđević M, Sarajlija A, Kecman B, Grković S, Srzentić S, Kostić J, Rodriguez-Pombo P, Ruiz Desviat L, Perez B, Pavlović S, Stojiljković M. **MOLECULAR AND PHENOTYPIC CHARACTERISTICS OF SEVEN NOVEL MUTATIONS CAUSING BRANCHED-CHAIN ORGANIC ACIDURIAS.** [P38-BM]
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56. Popović J, Paunesku T, Klajn A, Kovačević Grujičić N, Švrtlih M, Kalapurakal G, Chen S, Jin Q, Vogt S, Woloschak G, Stevanović M. **STUDY OF PLATINUM DISTRIBUTION IN HUMAN NEURONS *IN VITRO*.** [P56-BM]
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59. Rakonjac M, Čuturilo G, Stevanović M, Drakulić D. **ARTICULATION SKILLS, ORAL PRAXIS AND COGNITIVE MATURITY OF CHILDREN WITH 22q11.2 DELETION SYNDROME AND CHILDREN WITH PHENOTYPE RESEMBLING 22q11.2 DELETION SYNDROME BUT WITHOUT MICRODELETION.** [P59-BM]
60. Sibinovska O, Efinska Mladenovska O, Trajkov D, Hristomanova Miltkovska S, Kirjas M, Petlichkovski A. **PRELIMINARY RESULTS FROM MLPA ANALYSIS IN PATIENTS WITH AUTISTIC SPECTRUM DISORDERS FROM REPUBLIC OF MACEDONIA.** [P60-BM]
61. Skakić A, Đorđević M, Sarajlija A, Klaassen K, Tošić N, Kecman B, Ugrin M, Spasovski V, Pavlović S, Stojiljković M. **PRECISION MOLECULAR DIAGNOSTIC OF HEPATIC GSD REVEALED UNEXPECTEDLY HIGH INCIDENCE OF GSD Ib IN SERBIAN POPULATION AND THREE NOVEL VARIANTS IN THE SLC37A4 GENE.** [P61-BM]
62. Smajlović A, Lojo-Kadrić N, Haverić A, Hadžić M, Ramić J, Karačić A, Mujezinović I, Smajlović A, Haverić S, Galić B, Pojskić L. **VARIATION OF A SKIN GENE EXPRESSION PROFILE IN A RAT MODEL OF IMIQUIMOD INDUCED PSORIASIS.** [P62-BM]
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65. Stanisavljević D, Smiljković M, Stojković D, Petrović I, Marjanović Vićentić J, Popović J, Golić Grdodolnik S, Marković D, Sanković-Babić S, Glamočlija J, Stevanović M, Soković M. **INSIGHTS INTO THE MODES OF ANTICANDIDAL AND CYTOTOXIC ACTIONS OF APIGENIN-7-O-GLUCOSIDE COMPARED TO APIGENIN.** [P65-BM]
66. Stanković T, Stojković Burić S, Dragoj M, Podolski-Renić A, Dinić J, Stepanović M, Tanić N, Pešić M, Banković J. **THE ROLE OF DECREASED TSPAN14 EXPRESSION IN THE PATHOGENESIS OF NON SMALL CELL LUNG CARCINOMA.** [P66-BM]
67. Todorović L, Mandušić V, Petrović N, Živaljević V, Paunović I, Stanojević B. **microRNA-30A-3P EXPRESSION IN PAPILLARY THYROID CANCER.** [P67-BM]
68. Tomic B, Gvozdenov M, Pruner I, Kovač M, Miljić P, Antonijević N, Radojković D, Đorđević V. **PHENOTYPE OF PROTHROMBOTIC MUTATIONS CARRIERS - DATA FROM THE LARGE SERBIAN COHORT STUDY.** [P68-BM]
69. Trišić D, Lazarević M, Milošević M, Milosavljević A, Simonović J, Toljić B, Popović B, Marković D, Milašin J. **EFFECT OF DIODE LASER IRRADIATION ON OSTEOREGENIC DIFFERENTIATION OF STEM CELLS FROM APICAL PAPILLA.** [P69-BM]
70. Ugrin M, Stojiljković M, Zukić B, Klaassen K, Komazec J, Skakić A, Dokmanović L, Janić D, Patrinos GP, Pavlović S. **GENETIC MODIFIERS OF β-THALASSEMIA: A RISE OF A NOVEL THERAPY APPROACHES.** [P70-BM]
71. Vitošević K, Todorović M, Slović Ž, Matić S, Varijen T, Todorović D. **THE EFFECT OF FORMALIN FIXATION ON DNA EXTRACTION AND MOLECULAR ANALYSIS OF NON-TUMORAL BRAIN TISSUE EXCLUDED FROM AUTOPSY.** [P71-BM]
72. Vreća M, Spasovski V, Zeković A, Damjanov N, Andđelković M, Ugrin M, Pavlović S. **EXPRESSION OF TLR7, TLR9, JAK2 AND STAT3 GENES IN PERIPHERAL BLOOD MONONUCLEAR CELLS FROM PATIENTS WITH SYSTEMIC SCLEROSIS.** [P72-BM]
73. Životić I, Jovanović I, Đurić T, Stanković A, Dekleva M, Marković Nikolić N, Alavantić D, Živković M. **MICROARRAY TRANSCRIPTOME PROFILING IN MYOCARDIAL INFARCTION REGARDING PTPLAD2 rs2275888 eQTL: A DATA SCOUTING APPROACH.** [P73-BM]

22. septembar / September 2017

Mala sala / Small hall

Sekcija MOLEKULARNA BIOLOGIJA MIKROORGANIZAMA Session MOLECULAR BIOLOGY OF MICROORGANISMS

Predsedništvo / Chairs:
Đorđe Fira, Jelena Lozo, Branko Jovčić

Plenarna predavanja / Plenary lectures

- 10.00-10.20** Odgovor bakterija na stres plazma membrane: patogeneza i rezistencija na antibiotike
Bacterial Response to Plasma Membrane Stress: Pathogenesis and Antibiotic Resistance
Goran Jovanović (Velika Britanija / Great Britain)
- 10.20-10.30** Diskusija / Discussion

Predavanja po pozivu / Invited lectures

- 10.30-10.45** Molekularna biologija mobilnih integrona tip I
Molecular Biology of Type I Mobile Integrons
Branko Jovčić
- 10.45-11.00** Mehanizmi interakcije bakteriocin-receptor kao ključ razumevanja funkcije i primene bakteriocina
Mechanisms of Bacteriocin-Receptor Interaction as a Key for Bacteriocin Function Elucidation and Application
Milan Kojić
- 11.00-11.15** Molekularni mehanizmi u osnovi interakcija crevne mikrobiote, imunskog i nervnog sistema
Host-Microbe Crosstalk in the Gut-Brain Axis
Nataša Golić
- 11.15-11.25** Diskusija / Discussion

11.25-11.40

Pauza / Coffee Break



11.40-11.55	Molekularna karakterizacija biokontrolnih sojeva <i>Bacillus</i> spp. Molecular Characterization of <i>Bacillus</i> spp. Biocontrol Strains Slaviša Stanković
11.55-12.10	Biokatalitički potencijal bakterija Biocatalytic Potential of Bacteria Lidija Đokić
12.10-12.25	Problem uvijanja proteina The Protein Folding Problem Natalija Polović
12.25-12.40	Modelovanje dinamike ekspresije imunskih sistema bakterija Modelling Expression Dynamics of Bacterial Immune Systems Marko Đorđević
12.40-12.50	Diskusija / Discussion

Usmene prezentacije / Flash presentation

12.50-12.55	Dinić M, Lukić J, Đokić J, Milenković M, Strahinić I, Golić N, Begović J. <i>Lactobacillus fermentum</i> BGHV110 POSTBIOTICS ALLEVIATE ACETAMINOPHEN-INDUCED HEPATOTOXICITY BY PROMOTING PROTECTIVE AUTOPHAGY RESPONSE.
12.55-13.00	Rodić A, Đorđević M. QUANTITATIVE MODELING OF GENE EXPRESSION REGULATION IN BACTERIAL RESTRICTION-MODIFICATION SYSTEMS.
13.00-13.05	Vukotić G, Novović K, Stanisljević N, Mirković N, Jovčić B, Fira Đ, Neve H, McAuliffe O, Kojić M. CHARACTERIZATION OF BACTERIOPHAGES ACTIVE AGAINST NOSOCOMIAL MULTI-DRUG-RESISTANT STRAINS OF <i>Klebsiella</i>, <i>Acinetobacter</i>, <i>Escherichia</i> AND <i>Pseudomonas</i> sp., ISOLATED FROM BELGRADE WASTEWATERS.
13.05-13.15	Diskusija / Discussion

13.30-14.30

Poster sekcija MOLEKULARNA BIOLOGIJA MIKROORGANIZAMA
Poster Session MOLECULAR BIOLOGY OF MICROORGANISMS

Predsedništvo / Chairs:
Đorđe Fira, Jelena Lozo, Ivana Morić

1. Ahatović A, Pilav A, Subašić M, Haverić A, Čakar J. **CONTENT OF PHENOLIC COMPOUNDS AND ANTIMICROBIAL ACTIVITY OF *Helleborus atrorubens* Waldst. & Kit. AND *Helleborus odorus* Waldst. & Kit. Ex Willd. EXTRACTS.** [P1-MBM]
2. Gužina J, Đorđević M. **FROM ECF σ FACTORS TO COMMON TRANSCRIPTION INITIATION MECHANISM IN σ⁷⁰ FAMILY.** [P2-MBM]
3. Malešević M, Filipić B, Vukotić G, Novović K, Stanisljević N, Mirković N, Polović N, Kojić M, Jovčić B. **NOVEL QUORUM SENSING INHIBITORS FROM *Achromobacter* spp. CLINICAL ISOLATES.** [P3-MBM]
4. Miljković M, Kojić M. **AggLr IS A NOVEL AGGREGATION FACTOR FROM *Lactococcus raffinolactis* BGTRK10-1.** [P4-MBM]
5. Novović K, Mihajlović S, Dinić M, Malešević M, Kojić M, Jovčić B. **NEW INSIGHTS INTO DIVERSITY OF CarO AND Omp33-36 kDa PORINS FROM *Acinetobacter* spp.** [P5-MBM]
6. Petrović M, Nenadović Ž, Stanković S, Fira Đ, Radović S, Lozo J. **MOLECULAR AND BIACHEMICAL CHARACTERIZATION OF BACTERIA ISOLATED FROM THE RHIZOSPHERE OF THE SELECTED WEED SPECIES.** [P6-MBM]
7. Toljić B, Trbovich A, Matić Petrović S, Yousif Kannosh I, Dragović Lukić G, Jevtović Đ, De Luka SR, Ristić Đurović JL, Milašin J. **AGEING AND ORAL BACTERIA IN HIV-INFECTED PATIENTS.** [P7-MBM]
8. Stanisljević N, Vukotić G, Mirković N, Fira Đ, Kojić, M. **TANNASE AND GALLATE DECARBOXYLASE FROM *Lactobacillus* spp.** [P8-MBM]
9. Soković Bajić S, Mihajlović S, Popović N, Brdarić E, Ruas-Madiedo P, Golić N, Tolinački M. **THE ABILITY OF LACTOBACILLUS ISOLATED FROM ARTISANAL ZLATAR CHEESE TO PRODUCE GAMMA-AMINOBUTYRIC ACID.** [P9-MBM]

Sekcija PLENARNA PREDAVANJA KONGRESA
Session CONGRESS PLENARY LECTURES

Predsedništvo / Chairs:
Melita Vidaković, Marija Mojsin, Ana Đorđević

Plenarno predavanje / Plenary lecture

- 15.00-15.20** CRISPR/Cas9 metodologija u svrhu izmene epigenetičke informacije
CRISPR/Cas9 Methodology for Epigenetic Editing
Vlatka Zoldoš (Hrvatska / Croatia)

- 15.20-15.25** Diskusija / Discussion

SPONZORSKI SAT

Sponsor's hour

Predsedništvo / Chairs:

Melita Vidaković, Marija Mojsin, Ana Đorđević

15.30-16.00

ELTA 90 Medical Science

Tehnologija sekvenciranja nove generacije

Next-Generation Sequencing Technology

Product specialist Illumina, USA

16.00-16.30

Vivogen

Sekvenciranje za sva vremena, NGS + Sanger = kompletno rešenje

Timeless Sequencing: NGS + Sanger = Complete Workflow

Branka Jeličić (Hrvatska / Croatia)

16.30-17.00

Labena

U susret validiranom Western blotting-u bez boja, V3 radnom procesu i hemiluminescentnim i fluorescentnim aplikacijama

Toward a Validated Western blotting Stain Free, V3 Workflow, Chemiluminescence & Fluorescence Applications

Moustafa Khalf

(Bio-Rad Proteomics Application Specialist)

Digitalni kapljični PCR (dd PCR), moć podele – moć detekcije

Digital Droplet PCR (ddPCR), Power of Partitioning - Power of Detection

Josip Brajković

(Life Science Application Specialist Labena, Croatia)

17.00-17.15

Pauza / Coffee break

CEREMONIJA DODELA NAGRADA

Awards ceremony

Predsedništvo / Chairs:

Dušanka Savić-Pavićević, Ana Đorđević, Branko Jovčić

17.15-17.20	Dodela nagrade Američkog društva za mikrobiologiju za najbolju usmenu prezentaciju odabranog rada / Award Ceremony for ASM Best Flash Presentation Prize
17.20-17.30	Dodela nagrada za najbolje postere sekcija CoMBoS Best Poster Awards Ceremony
17.30-17.40	Dodela nagrade MolBioS MolBioS Award Ceremony
17.40-18.10	Istorijski pregled istraživanja steroidnih receptora Historical Perspectives of Steroid Receptor Research Gordana Matić dobitnik nagrade MolBioS / MolBioS Award Winner
18.10-18.30	Skupština Srpskog društva za molekularnu biologiju (MolBioS) Serbian Society for Molecular Biology (MolBioS) Assembly

18.30-18.45

CEREMONIJA ZATVARANJA KONGRESA

CLOSING CEREMONY

Predsedništvo / Chairs:

Gordana Matić, Goran Brajušković

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ELTA 90 Medical Science je najmlađi član ELTA 90 grupacije, regionalnog lidera u distribuciji medicinskih sredstava, laboratorijske opreme i potrošnog materijala. Sa više od 15 godina iskustva u regionu, ELTA 90 je gradila svoju reputaciju uspešne kompanije, kojoj su partneri na prvom mestu.

Veliki broj renomiranih svetskih kompanija koje zastupamo svedočilo našem poslovanju koje se baziranastalnojedukaciji, unapređenju kvaliteta i brzine usluge, inovacijama, društvenoj odgovornosti i građenju povjerenja i partnerskih odnosa sa našim klijentima. Profesionalne potrebe i razvoj naših klijenata su bile i ostale naš prioritet.



Illumina – Budućnost, sada.

Ono što izdvaja Illuminu od drugih proizvođača jeste posebna tehnika sekvenciranja sintezom – **SBS (Sequencing by synthesis)** čija je osnovna

prednost velika osetljivost i smanjenje mogućnosti greške, kao i **“Pair-end sequencing”** koji omogućava dodatnu proveru sekvenciranja.

MiniSeq - nova super zvezda Illumine. Sva snaga u malom, pristupačnom i jednostavnom za **upotrebu instrumentu najnovije generacije**.

MiSeq - fokus na snazi i neograničenim mogućnostima. Ciljano sekvenciranje gena, metagenomika, sekvenciranje malih genoma, ciljana ekspresija gena, sekvenciranje amplikona, HLA tipizacija uz Output do 15Gb!

NextSeq 500 - najjači desktop sekvenator, objedinjuje veliku snagu, fleksibilnost i jednostavnost u radu, kako bi Vam osigurao što jednostavniji pristup u izučavanju kompletnog genoma, epigenoma i transkriptoma.

HiSeq sistemi - nepriskosnoveni sistemi prepoznatljive snage, brzine i efikasnosti koji su postali prva opcija za sve veće genetičke centre širom sveta.



NovaSeq - Sa NovaSeq serijom, termin visoko propusna tehnologija sekvenciranja zadobija potpuno novo značenje. Ovi instrumenti omogućavaju sekvenciranje 48 uzoraka celih humanih genoma u jednom run-u. Opseg dobijenih podataka je između 167 Gb–6 Tb. omogućavaju sekvenciranje 48 uzoraka celih humanih genoma u jednom run-u. Opseg dobijenih podataka je između 167 Gb–6 Tb.



pristupom Beckman Coulter Life Sciences preispituje konvencionalne metode kako bi razvio najbolje moguće proizvode koji su globalno prepoznati kao izuzetno pouzdani, a samim tim su i veoma rado i sa ponošom korišćeni u laboratorijama.

Beckman Coulter Life Sciences pruža inovativna i pouzdana rešenja za laboratorije sa najrazličitijim potrebama širom sveta. Njihovu opremu ćete videti na univerzitetima, u vladinom sektoru, u biotehnološkim i farmaceutskim kompanijama, bolnicama i komercijalnim laboratorijama. Svojim najsavremenijim

Iz Beckman Coulter Life Sciences portfolia izdvaja se program za protočnu citometriju, koji je posebno prilagođen jedinstvenim potrebama istraživača (**CytoFLEX aparat**) kao i širok dijapazon centrifuga (Allegra, Avanti i Optima serije).



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- ćelijska biologija (sorteri, protočni citometri)
- antitela za protočnu citometriju, Western Blotting i imunohistohemiju
- tube, nastavci i ploče PCR čistoće
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- istraživački ELISA kitovi
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21. septembar / September 2017	09.00-18.00
22. septembar / September 2017	10.00-15.30

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Prelom i dizajn:
Dušan Radojević

Tehnička podrška i animacije:
Stevan Nikolić

BELEŠKE / NOTES

BELEŠKE / NOTES

