



SCIENTIFIC PROGRAMME

WEDNESDAY, 2nd October

14:00 Registration desk opening and poster mounting

15:00 **Opening ceremony: Welcome note**

Chairs: Kasim Bajrović, Stojko Vidović, Andrew Collins

15:15 – 15:50 **PL1 Adaleta Durmić-Pašić** (*University of Sarajevo, Institute for Genetic Engineering and Biotechnology, Sarajevo, Bosnia and Herzegovina*): A SHORT HISTORY OF GENETICS IN BOSNIA AND HERZEGOVINA

15:50 – 16:25 **PL2 Andrew Collins** (*University of Oslo; Department of Nutrition, Oslo, Norway*): THE COMET ASSAY; STATE OF THE ART

16:25 – 17:00 **PL3 Matthew R. Willmann** (*Cornell University, Plant Transformation Facility, Ithaca, New York, United States of America*): THE IMPACT OF GENOME EDITING ON CROP IMPROVEMENT

17:00 – 17:40 **Coffee Break**

17:40 – 18:15 **PL4 Joao Teixeira** (*National Institute of Health, Environmental Health Department, Porto, Portugal*): GENETIC DAMAGE OF OCCUPATIONAL EXPOSURE TO STYRENE

18:20 – 18:55 **PL5 Zvonimir Marelja** (*Institut Imagine, Paris, France*): LYSOSOMAL CYSTINE EFFLUX OPPOSES MTORC1 REACTIVATION UPON FASTING THROUGH THE TCA CYCLE

19:00 – 19:35 **PL6 Zoran Galić** (*UCLA, David Geffen School of Medicine, Department of Medicine, Division of Hematology/Oncology, Los Angeles, United States of America*): DERIVATION OF GENETICALLY MODIFIED T CELLS FROM HUMAN EMBRYONIC STEM CELLS

19:40 **Vocal choir ensemble „Corona“ performance**

20:00 **GENuB&H Awards Presentation**

THURSDAY, 3th of October

Invited lectures

Chairs: Lejla Kapur Pojskić, Irena Drmić Hofman, Duan Chen

- 09:00 I1** **Dijana Plašeska Karanfilska** (*Macedonian Academy of Sciences and Arts, Research Center for Genetic Engineering and Biotechnology, Skopje, Macedonia*): THE COMING AGE OF POLYGENIC RISK SCORES: TOWARDS PERSONALIZED BREAST CANCER RISK ASSESSMENT AND PREVENTION
- 09:30 I2** **Irena Drmić Hofman** (*University of Split, School of Medicine Split, Croatia*): DETECTION OF BRCA1 AND BRCA2 MUTATIONS IN OVARIAN CANCER BY NEXT- GENERATION SEQUENCING
- 10:00 I3** **Borut Peterlin** (*Clinical Institute of Medical Genetics, Ljubljana Slovenia*): NEW GENOMIC TECHNOLOGIES FOR IMPROVEMENT OF NATIONAL HEALTH SYSTEM

10:30 -11:00 Coffee Break

Oral presentations

- 11:00 O1.** **Branka Zukić** (*University of Belgrade, Institute of Molecular Genetics and Genetic Engineering, Belgrade, Serbia*): NEXT-GENERATION SEQUENCING AS A TOOL TO STUDY RARE DISEASES
- 11:20 O2.** **Mensuda Hasanhodžić** (*University Clinical Centre Tuzla, Polyclinic of Medical Genetics with Genetic Counselling for Out-Patient Care, Department of Paediatrics, Tuzla, Bosnia and Herzegovina*): THE GENETIC CAUSES OF THE HEARING IMPAIRMENT IN BOSNIAN POPULATION
- 11:40 Ivo Barić** (*University Hospital Centre Zagreb, Croatia*)
- 12:10 O3.** **Rijad Konjhodžić** (*ALEA Genetic Center, Sarajevo, Bosnia and Herzegovina*): PATHOGENIC MUTATIONS ASSOCIATED WITH COLORECTAL CANCER AND NON-SMALL CELL LUNG CANCER IN BOSNIA AND HERZEGOVINA POPULATION

12:30 Poster Session 1 (Odd poster numbers)

13:00 – 13:40 Lunch Break

Oral presentations

Chairs: Borut Peterlin, Mensuda Hasanhodžić, Branka Zukić

- 13:40 O4.** **Duan Chen** (*Norwegian University of Science and Technology, Department of Clinical and Molecular Medicine, Trondheim, Norway*): PROTEOMICS-BASED DEVELOPMENT OF NEW TREATMENT FOR PANCREATIC CANCER
- 14:00 O5.** **Chun-Mei Zhao** (*Norwegian University of Science and Technology, Department of Clinical and Molecular Medicine, Trondheim, Norway*): TARGETING NERVE-CANCER METABOLISM IMPROVED OVERALL SURVIVAL IN AGED MICE WITH GASTRIC CANCER
- 14:20 O6.** **Mirella Perruccio** (*Qiagen GmbH, Hilden, Germany*): A BRIEF STORY OF QIAGEN IN THE FORENSIC FIELD

14:40 – 15:10 Coffee Break

Oral presentations

15:10 **O7. Matea Zajc Petranović** (*Institute for Anthropological Research, Zagreb, Croatia*): THE VARIABILITY OF DETOXYFIFYING *GSTP1* GENE POLYMORPHISMS IN THE ROMA POPULATION FROM CROATIA

15:30 **O8. Süreyya Bozkurt** (*Istinye University, Faculty of Medicine, Department of Medical Biology, Istanbul, Turkey*): MONOSOMAL KARYOTYPE IN MYELODISPLASTIC SYNDROME AND ACUTE MYELOID LEUKEMIA PATIENTS

15:50 **O9. Josip Brajković** (*Labena d.o.o, Zagreb, Croatia*): ddPCR – NEW GENERATION OF PCR TECHNOLOGY

16:10-18:10 Round table discussion

Chair: Lejla Kapur Pojskić

Genetic testing for diagnosis and treatment of rare disorders / Networking event for genetic testing laboratories, medical specialists, geneticists and regulatory representatives involved in the topic

(All interested participants should register for the meeting. Separate agenda for the meeting will be provided)

19:30 CONGRESS DINNER

FRIDAY, 4th of October

Invited lectures

Chairs: Emina Kiseljaković, Nataša Golić, Joao Teixeira

09:00 **I4 Nataša Golić** (*University of Belgrade, Institute of Molecular Genetics and Genetic Engineering, Laboratory for Molecular Microbiology, Belgrade, Serbia*): GUT MICROBIAL-HOST CROSS TALK IN HUMAN HEALTH AND WELLBEING

09:30 **I5 Jadranka Vraneković** (*University of Rijeka, School of Medicine, Department of Medical Biology and Genetics, Rijeka, Croatia*): POLYMORPHISMS IN FOLATE PATHWAY GENES AS RISK FACTORS FOR CONGENITAL HEART DEFECTS IN DOWN SYNDROME

10:00 **I6 Nermin Gozukirmizi** (*Istinye University, Department of Molecular Biology and Genetics, Istanbul, Turkey*): lncRNAs

10:30 – 11:00 Coffee Break

11:00 **I7 Amaya Azqueta** (*University of Navarra Department of Pharmacology and Toxicology, IdiSNA, Navarra Institute for Health Research*): MODIFICATIONS OF THE COMET ASSAY FOR DETECTING DIFFERENT DNA LESIONS

11:30 **I8 Bertrand Pourrut** (*Université de Toulouse; UPS, INP; EcoLab (Laboratoire d'écologie fonctionnelle et environnement); ENSAT, Toulouse, France*): PLANT COMET ASSAY IN ENVIRONMENTAL STUDIES: USES, LIMITS AND PERSPECTIVES

Oral presentations

- 12:00 O10. Milena Janković** (*University of Belgrade, School of Medicine, Neurology Clinic, Clinical Centre of Serbia, Belgrade, Serbia*): ANGIOGENIN GENE MUTATIONS IN PATIENTS WITH AMYOTROPHIC LATERAL SCLEROSIS FROM TERTIARY CENTER IN BELGRADE
- 12:20 O11. Nurşen Başaran** (*Hacettepe University, Faculty of Pharmacy Department of Pharmaceutical Toxicology, Ankara, Turkey*): DOES CINNAMIC ACID HAVE BENEFICIAL EFFECTS ON DIABETES INDUCED GENOTOXICITY?
- 12:40 O12. Mirta Milić** (*Institute for Medical Research and Occupational Health, Mutagenesis Unit, Zagreb, Croatia*): THE INFLUENCE OF A THREE-WEEK HYPOCALORIC DIET ON DNA DAMAGE PARAMETERS MEASURED BY ALKALINE COMET ASSAY AND CYTOCHALASIN B-BLOCKED MICRONUCLEUS ASSAY IN OBESE PATIENTS FROM THE SPECIAL HOSPITAL FOR EXTENDED TREATMENT OF DUGA RESA, CROATIA – PRELIMINARY RESULTS

13:00 – 14:00 Lunch Break

14:00 Poster Session 2 (Even poster numbers)

14:30 PhD Students Session – Oral and poster presentations

Chairs: Jadranka Vraneković, Marija Vuković, Lada Lukić Bilela

- 14:30 OS1. Ivana Šolić** (*University of Split, School of Medicine, Department of Anatomy, Histology and Embryology, Split, Croatia*): GENE EXPRESSION OF α -TUBULIN, INVERSIN AND DISHVELLED-1 IN POSTNATAL KIDNEY TISSUE
- 14:40 OS2. Sumejja Baljević** (*University of Sarajevo, Clinical Center, Department of Clinical Pathology, Cytology and Human Genetics, Sarajevo, Bosnia and Herzegovina*): ROLE OF FLOW CYTOMETRY IN DIAGNOSIS OF LARGE GRANULAR LYMPHOCYTE LEUKEMIA
- 14:50 OS3. Anesa Ahatović** (*University of Sarajevo – Institute for genetic engineering and biotechnology, Zmaja od Bosne 8, Kampus, Sarajevo, Bosnia and Herzegovina*): EVALUATION OF HEAVY METAL TOLERANCE IN SERPENTINE RHIZOBACTERIA ASSOCIATED WITH *MEDICAGO LUPULINA* L.

Graduate Students Session – Poster presentations

Undergraduate Students Session – Poster presentations

15:10 Announcement of the award at the end of the Session

15:30 Sightseeing Tour (Closing of the Congress)

SATURDAY and SUNDAY, 5th and 6th of October

“COMET Workshop – Basic Comet Assay Techniques”

**Institute for genetic engineering and biotechnology
Zmaja od Bosne 8 (Kampus), Sarajevo, Bosnia and Herzegovina**

Co-organized and co-hosted by:

Genetic Association in Bosnia and Herzegovina, www.genubih.ba

CA15132 hCOMET Cost Action, www.hcomet.eu

University of Sarajevo - Institute for Genetic Engineering and Biotechnology, www.ingeb.unsa.ba