

13th iSABS[★]

Conference on Applied Genetics and Mayo
Clinic Lectures in Translational Medicine

**Hotel Radisson Blu Resort & Spa
Split, June 17-20, 2024**



With the participation
of Nobel Laureates



Association of



CONFERENCE PROGRAM



Partners



CROATIAN
MEDICAL
CHAMBER



Sveučilište
u Splitu



INSTITUTE FOR
ANTHROPOLOGICAL
RESEARCH



CROATIAN SOCIETY
OF HUMAN GENETICS



CROATIAN
SOCIETY
FOR
PRECISION
PERSONALIZED
MEDICINE

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Sunday, June 16th

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- 12:00** **OPENING REMARKS; DRAGAN PRIMORAC, CHAIR**
- 12:00** **Massimiliano Gnechi (University of Pavia, Pavia, Italy):** Induced pluripotent stem cell-derived cardiomyocytes for precision medicine in patients affected by inherited cardiac channelopathies
- 12:20** **Lidija Bach Rojcky (School of Pharmacy and Biochemistry, University of Zagreb, Zagreb, Croatia):** Pharmacogenomics: Challenges and Opportunities
- 12:40** **Petar Brlek (St. Catherine Specialty Hospital, Zagreb, Croatia):** Implementing Whole Genome Sequencing (WGS) in Clinical Practice
- 13:00** **Ljubica Odak (Children's Hospital Zagreb, Zagreb, Croatia):**
The diagnostic journey of chromatin remodeling disorders
- 13:20** **Damir Marjanović (Institute for Anthropological Research, Zagreb, Croatia):**
Identification of Skeletal Remains in Croatia and Bosnia & Herzegovina, Including the Homeland War – A 30-year Review
- 13:40** **Tatijana Zemunik (University of Split, School of Medicine, Split, Croatia):**
Genetic variants associated with thyroglobulin plasma levels
- 14:00** **Ivona Sansović (Children's Hospital Zagreb, Zagreb, Croatia):** Spectrum of genetic variants in 306 patients with non-syndromic hearing loss from Croatia
- 14:20** **Jelena Šarac (Institute for Anthropological Research, Zagreb, Croatia):**
The Genetic Scenario of Historical Human Migrations in South-Eastern Europe —Three Decades of Croatian Genetic Heritage Story
- 14:40** **Danijela Petković Ramadža (School Department of Medical Biology and Genetics, Faculty of Medicine, University of Rijeka, Rijeka, Croatia):**
Genotype and phenotypic variability of seven patients with glucose transporter type 1 deficiency syndrome
- 15:00** **Nina Pereza (University of Rijeka, Faculty of Medicine, Department of Medical Biology and Genetics, Rijeka, Croatia):** A Retrospective Study of Diagnostic Next Generation Sequencing at the University of Rijeka, Faculty of Medicine, Croatia from 2018 to 2023
- 15:20** **Darko Antičević (University of Osijek, Faculty of Dental Medicine and Health, Osijek, Croatia, St. Catherine Speciality Hospital, Zagreb, Croatia):** Three cases of fibro-dysplasia ossificans progressive with extra long-term follow-up
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- 15:45** **ADJOURN; DRAGAN PRIMORAC, CHAIR**

DAY 1

Monday, June 17th

08:30

OPENING PROGRAM

Conference Distinguished Lecture: Manfred Kayser: Genetic research to improve forensic practice: the last 20 years

Doris Taylor: Bioengineering human heart failure solutions in 2024: Genes, proteins, organs

Gordan Lauc: Glycan biomarkers for personalized preventive healthcare

Nathan LeBrasseur: Targeting cellular senescence for healthy aging

Noon

LUNCH, POSTERS

14:00

RICHARD ROBERTS: THE MANY ROLES OF DNA METHYLATION IN BACTERIA

15:00

MOSES SAMUEL SCHANFIELD MEMORIAL SYMPOSIUM; HENRY C. LEE, HONORARY CHAIR

Amanda Schwartz, Dragan Primorac, Stanimir Vuk-Pavlović: On Moses

Antti Sajantila: Bridging forensic virology and archaeovirology

Bruce Budowle: Enhancing human identification with a well-structured forensic investigative genetic genealogy program

Frederick Bieber: A close view of forensic genetic genealogy: Successes, challenges and misapplications of genealogics

Mitchell Holland: Sequencing ten thousand mitogenomes: Challenges of interpreting the data

Susan Walsh: From a skull to a Face using forensic DNA phenotyping

Walther Parson: From forensic genetics to forensic genomics: the mtDNA perspective

Henry Lee: Use and misuse of DNA evidence in court

16:30 - 18:30 **The First Conference of The International Regenerative Medicine Experts Society (IARMES)**

Evening

WELCOME

DAY 2

Tuesday, June 18th

08:30

REGENERATIVE MEDICINE I;
ELISABETH ROSADO BALMAYOR, CHAIR

Christopher Evans: Progress in clinical translation of gene therapy for osteoarthritis

Dragan Primorac: Understanding molecular effects of MFAT and mesenchymal stromal cell therapy of osteoarthritis

Elisabeth Rosado Balmayor: Messenger RNA to induce tissue healing

Shai Meretzki: Advancing the future of regenerative medicine: Cells and tissue priming for successful translation of effective and accessible therapies

Julie G. Allickson: Mayo Clinic Center for Regenerative Biotherapeutics: How we streamline operations for commercial success with execution of early phase clinical trials

Giuseppe Orlando: Regenerative Medicine Applications to Transplant Medicine with an Emphasis on Mitochondrial Transplantation

Peter Wheling: Secretome-based therapy in chronic pain/OA patients and isports Injury -Biology, clinical results and cases

Noon

LUNCH, POSTERS

14:00

GREGG SEMENZA:
TARGETING HYPOXIA-INDUCIBLE FACTORS FOR CANCER THERAPY

15:00

IMMUNOTHERAPY;
LAURENCE ZITVOGEL, CHAIR

Guido Kroemer: Stress hormones interfering with cancer immunosurveillance

Laurence Zitvogel: The dirty secret of cancer immunotherapy

Nikolaos Skartsis: Inflammation-trained Tregs for Cell Therapy

Richard Vile: Using viruses to drive T cells, and T cells to drive viruses, for cancer immunotherapy

Robert Ferris: Developing innovative therapies and matching treatment intensity for head and neck cancer patients

Saad Kenderian: Chimeric antigen receptor T cell therapy: where are we now and in 2030

Zwi Berneman: Dendritic cell vaccination in cancer and autoimmune disease

Evening

GALA DINNER, MSYA AND FSA PRESENTATION

DAY 3

Wednesday, June 19th

08:30

AI/MACHINE LEARNING;
ZVIA AGUR, CHAIR

Jung Kyoon Choi: Immunogenomic AI for cancer immunotherapy and diagnosis

Tae Hyun Hwang: AI-driven 3D modeling and analysis of tumor immune microenvironment and live cell imaging

Samuel Volchenbom: Data for the common good: Transforming health through data

Manolis Kellis: AI for genomic medicine and therapeutic development

Arezou A. Ghazani: Advances in genomic medicine: Genomics, data science, and precision health

Adrijana Kekić: Shaping pharmacogenomics and personalized medicine by AI

Zvia Agur: Why do COVID-19 patients die?

11:30 - 13:30 The EOC 2024 Medical Commission meeting

Noon

LUNCH, POSTERS

14:00

SVANTE PÄÄBO:
ARCHAIC GENOMICS

15:00

GENE ANALYSIS IN HUMAN HEALTH AND HISTORY;
ESKEATNAF MULUGETA, CHAIR

Eskeatnaf Mulugeta: The Future of Crime Investigation in the era of Single-Cell Omics

Henry Erlich: In silico sequence size selection and haplotyping using Oxford Nanopore applied to non-invasive prenatal testing of hemoglobinopathies

Mateja Hajdinjak: Zooming into late Neandertal populations with new genomic data

Nidhi Shah: Newborn genome sequencing

Ron van Schalk: Pharmacogenetics: do YOU have your DNA passport for medication?

Serena Tucci: The genomic legacy of archaic hominid introgression

Toomas Kivisild: Formation of local population structure in North Europe during and after plague pandemics

Evening

ISABS LECTURE: JOHN IOANNIDIS:
SCIENCE, SCIENTISTS, AND SCIENTIFIC PUBLICATIONS: THE QUEST FOR
REPRODUCIBLE AND USEFUL RESEARCH

DAY 4

Thursday, June 20th

08:30

REGENERATIVE MEDICINE II;
ATTA BEHFAR, CHAIR

David Lott: Translational tissue engineering

Thomas Salinas: Updates in oral/systemic health and reconstruction of craniofacial defects

Atta Behfar: Acellular approach for cardiovascular regeneration and wound healing

Kapil Bharti: Developing an autologous iPS cell-based therapy for age-related macular degeneration

Massimiliano Gnecci: Mesenchymal stromal cell secretome for heart repair

Jorge Mallea: Machine perfusion: A platform for organ repair and regeneration

Noon

LUNCH, POSTER REMOVAL

14:00

AARON CIECHANOVER:
TBA

15:00

PRESIDENTIAL ADDRESS AND CLOSING PROGRAM

Joint Event ISABS and Ministry of the Interior - Crime Scene Investigation Training Course

Phil Spector case - Forensics Key in Spector Trial

Friday, June 21st

10:00

OPENING REMARKS;
HENRY C LEE, CHAIR, DRAGAN PRIMORAC

MODERATORS

Henry Lee

(College of Criminal Justice and Forensic Sciences, University of New Haven,
West Haven, CT, USA; Henry C. Lee Institute, West Haven, CT, USA)

Dragan Primorac

(ISABS & St. Catherine Specialty Hospital, Zagreb, Croatia; Universities of Split,
Osijek and Rijeka, Croatia; Eberly College of Science, The Pennsylvania State
University, University Park, State College, PA, USA; The Henry C. Lee College of
Criminal Justice and Forensic Sciences, University of New Haven, West Haven,
CT, USA; Regiomed Kliniken, Coburg, Germany)

Andrea Ledić

(Forensic Science Centre „Ivan Vučetić“, Zagreb, Croatia)

Šimun Anđelinović

(University Hospital Center, Split, Croatia)

Conference technical organizer - PCO

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