

# JutarnjiLIST

• 3,50 KM BIH • 2,20 € SLOVENIJA

Nobelovci prof.dr. Aaron Ciechanover, prof.dr. Thomas Südhof i prof.dr. Richard Roberts s prof.dr. Draganom Primorcem, predsjednikom ISABS-a



## SVJETSKI ZNANSTVENI SPEKTAKL U SPLITU OD 17. DO 20. LIPNJA U KOJEM SUDJELUJE ČETVERO DOBITNIKA NOBELOVE NAGRADE

**Primorac: Split i Hrvatska ponovno su u središtu pozornosti svjetske znanstvene zajednice. To je Hrvatska koju sam sanjao, a kongres koji organiziraju ISABS, Specijalna bolnica Sv. Katarina i Klinika Mayo postao je jedan od najznačajnijih svjetskih znanstvenih „brandova“**

**U** razdoblju od 17. do 20. lipnja 2024. Split će postati središte okupljanja vodećih svjetskih znanstvenika iz područja personalizirane i regenerativne medicine te medicinske, forenzičke i antropološke genetike održavanjem 13. Kongresa primijenjene genetike i predavanja o translacijskoj medicini Klinike Mayo (engl. 13th ISABS Conference on Applied Genetics and Mayo Clinic Lectures in Translational Medicine). Na kongresu će sudjelovati više od 400 vrhunskih znanstvenika iz cijelog svijeta, među kojima su i četiri dobitnika Nobelove nagrade: prof. dr. sc. Sir Richard Roberts, glavni znanstveni direktor kompanije New England

Biolabs (Massachusetts, SAD), prof. dr. sc. Aaron Ciechanover s Izraelskog tehnološkog instituta Technion, prof. dr. sc. Gregg Semenza sa Sveučilišta Johns Hopkins i prof. dr. sc. Svante Pääbo s Max Planck Instituta za evolucijsku antropologiju, koji će održati pozvana predavanja te sudjelovati s prof. dr. sc. Draganom Primorcem na posebnom forumu „Nobel Spirit“ namijenjenom stručnoj i široj javnosti, a koji će biti kao i u dosadašnjim izdanjima kongresa popraćen prijenosom na Hrvatskoj radioteleviziji. Teme ovogodišnjeg kongresa uključuju epigenetiku, molekularnu biologiju i...

nastavak na sljedećoj stranici →



## 9<sup>th</sup> Croatian Human Genetics Conference

### 2<sup>nd</sup> Croatian Personalized and Precision Medicine Conference

#### Sunday, June 16<sup>th</sup>

- 12:00 **OPENING REMARKS; Dragan Primorac, Chair**  
Meeting Room Oleandar, Ground Floor
- 12:00 **Massimiliano Gnecci (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 Rojecky (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 **BREAK**
- 14:35 **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
- 14:55 **Danijela Petković Ramadža (University of Zagreb, School of Medicine; University Hospital Centre Zagreb, Zagreb, Croatia):** Genotype and phenotypic variability of seven patients with glucose transporter type 1 deficiency

- 15:15 **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
- 15:35 **Darko Antičević (University of Osijek, Faculty of Dental Medicine and Health, Osijek, Croatia, St. Catherine Specialty Hospital, Zagreb, Croatia):** Three cases of fibro-dysplasia ossificans progressive with extra long-term follow-up
- 15:55 **Inga Urlić (Department of Biology, Faculty of Science, University of Zagreb, Zagreb, Croatia):** Insights in Osteosarcoma Evolution by Single-Cell RNA Sequencing
- 16:15 **Katarina Vukojević (Faculty of Medicine, University of Split, Split, Croatia):** Expression pattern of PDE4B, PDE4D and SFRP5 markers in the colorectal cancer
- 16:35 **ADJOURN; Dragan Primorac, Chair**

Ponedjeljak  
3. lipnja 2024.

CIJENA 1,80 €  
3,50 KMBIH  
2,20 € SLOVENIJA

#### DAY 1

#### Monday, June 17<sup>th</sup>

- 09:00 **OPENING: Dragan Primorac and Stanimir Vuk-Pavlović, Chairs**  
Main Conference Room, Ground Floor
- 09:00 **Comment from the chair**
- 09:05 **Conference Distinguished Lecture: Manfred Kayser:** Genetic research to improve forensic practice: the last 20 years
- 09:40 **Gordan Lauc:** Glycan biomarkers for personalised preventive healthcare
- 10:10 **Intermission**
- 10:15 **Opening of the Conference program**
- 11:10 **Intermission**
- 11:15 **Doris Taylor:** Bioengineering regenerative medicine solutions for heart disease in 2024: From genes to organs
- 11:45 **Nathan LeBrasseur:** Targeting cellular senescence for healthy aging
- 12:15 **Adjourn**
- 12:30 **LUNCH**  
**POSTER PRESENTATION**  
Meeting Rooms Ružmarin & Palma 1, Ground Floor
- 14:00 **RICHARD ROBERTS: The many roles of DNA methylation in bacteria**  
Main Conference Room, Ground Floor
- 15:00 **MOSES SAMUEL SCHANFIELD MEMORIAL SYMPOSIUM: Henry C. Lee, Honorary Chair; Damir Marjanović, Chair**  
Main Conference Room, Ground Floor
- 15:00 **Comments from the chair**
- 15:05 **Walther Parson:** From forensic genetics to forensic genomics: The mtDNA perspective
- 15:30 **Bruce Budowle:** Enhancing human identification with a well-structured forensic investigative genetic genealogy program
- 15:55 **Mitchell Holland:** Analysis of HiFi mitogenome sequence data from the PaqBio Sequel IIe
- 16:20 **Susan Walsh:** From a skull to a face using forensic DNA phenotyping
- 16:45 **Eskeatnaf Mulugeta:** The future of crime investigation in the era of single-cell omics
- 17:10 **Frederick Bieber:** DNA on trial: Confronting challenges to DNA in the courts
- 17:35 **Antti Sajantila:** Bridging forensic virology and archaeovirology
- 18:00 **Henry Lee:** Use and abuse of genetic evidence in court
- 18:25 **Adjourn**
- 15:00 - 16:00 **Nutrigenomics 365 workshop (Nutrigenomics 365 partners only)**  
Meeting Room Kaktus, First Floor
- 16:30 - 18:30 **The First Conference of The International Regenerative Medicine Experts Society (IARMES) (By invitation only)**  
Meeting Room Agava, First Floor
- 18:30 **WELCOME RECEPTION**  
Pool Terrace, First Floor

#### DAY 2

#### Tuesday, June 18<sup>th</sup>

- 08:30 **Regenerative Medicine I: Elisabeth Rosado Balmayor, Chair**  
Main Conference Room, Ground Floor
- 08:30 **Comments from the chair**
- 08:35 **Julie Allickson: Mayo Clinic Center for Regenerative Biotherapeutics:** How we streamline operations for commercial success with execution of early phase clinical trials
- 09:00 **Christopher Evans:** Progress in clinical translation of gene therapy for osteoarthritis
- 09:35 **Elisabeth Rosado Balmayor:** Messenger RNA to induce tissue healing
- 10:00 **Selected Oral Communication: Nikolina Pleić:** Vitamin D and thyroid function: A Mendelian randomization study
- 10:10 **Dragan Primorac:** Understanding molecular effects of microfragmented adipose tissue and mesenchymal stromal cell therapy of osteoarthritis
- 10:35 **Giuseppe Orlando:** Regenerative medicine applications to transplant medicine with an emphasis to mitochondrial transplantation
- 11:00 **Peter Wehling:** Secretome based therapy in chronic pain/OA patients and sports injury: Biology, clinical results and cases
- 11:25 **Shai Meretzki:** Advancing the future of regenerative medicine: Cells and tissue priming for successful translation of effective and accessible therapies
- 11:50 **Adjourn**
- 12:00 **LUNCH**  
**POSTER PRESENTATION**  
Meeting Rooms Ružmarin & Palma 1, Ground Floor
- 13:00 **BOOK PRESENTATION: Henry A. Erlich: Genetic Reconstruction of the Past: DNA Analysis in Forensics and Human Evolution (Oxford University Press, 2023) Dragan Primorac, Wolfgang Höppner, and Lidija Bach-Rojecky (editors): Pharmacogenomics in Clinical Practice (Springer, 2023)**  
Meeting Room Oleandar, Ground Floor
- 14:00 **GREGG SEMENZA: Role of hypoxia-inducible factors in oxygen homeostasis and cancer progression**  
Main Conference Room, Ground Floor
- 15:00 **IMMUNOTHERAPY: Laurence Zitvogel, Chair**  
Main Conference Room, Ground Floor
- 15:00 **Comments from the chair**
- 15:05 **Guido Kroemer:** Stress hormones interfering with cancer immunosurveillance
- 15:30 **Laurence Zitvogel:** Links between gut microbiota and tumor immunosurveillance
- 15:55 **Nikolaos Skartsis:** Inflammation-trained Tregs for cell therapy
- 16:20 **Saad Kenderian:** Chimeric antigen receptor T cell therapy: Where are we now and in 2030
- 16:45 **Zwi Berneman:** Dendritic cell vaccination in cancer and autoimmune disease
- 17:10 **Robert Ferris:** Developing innovative therapies and matching treatment intensity for head and neck cancer patients
- 17:35 **Adjourn**

- 17:30 **NOBEL SPIRIT - TELEVISED SESSION WITH NOBEL LAUREATES; CROATIAN RADIOTELEVISION (By invitation only)**  
Museum of Croatian Archaeological Monuments (MHAS)
- 19:00 **GALA DINNER, MOSES SCHANFIELD YOUNG INVESTIGATOR AWARD (YIA) Award Ceremony**  
Meštrović Gallery

#### DAY 3

#### Wednesday, June 19<sup>th</sup>

- 08:30 **AI AND MACHINE LEARNING IN MEDICINE: Zvia Agur, Chair**  
Main Conference Room, Ground Floor
- 08:30 **Comments from the chair**
- 08:35 **Jung Kyoonyoung Choi:** Immunogenomic AI for cancer immunotherapy and diagnosis
- 09:00 **Tae Hyun Hwang:** AI-driven 3D modeling and analysis of tumor immune microenvironment and live cell imaging
- 09:25 **Selected Oral Communication: Yuri Kogan:** Expanding a personalization algorithm for predicting individual response to immunotherapy in patients with advanced melanoma
- 09:35 **Samuel Volchenbom:** Data for the common good: Transforming health through data
- 10:00 **Zvia Agur:** Why do covid-19 patients die?
- 10:25 **Ron van Schaik:** Pharmacogenetics: Do you have your DNA-passport for medication?
- 10:50 **Manolis Kellis:** AI for genomic medicine and therapeutic development
- 11:15 **Arezou Ghazani:** Advancing precision medicine through integration of large-scale genome and clinical data
- 11:40 **Adjourn**
- 11:30 - 13:30 **European Olympic Committees: Medical and Antidoping Commission Meeting (By invitation only)**  
Meeting Room Agava, First Floor

- 12:00 **LUNCH**  
**POSTER PRESENTATION**  
Meeting Rooms Ružmarin & Palma 1, Ground Floor
- 13:00 **BOOK PRESENTATION: Xiaping Jiang (with Anthony Roberts and Henry C. Lee): Gunshot in Croatia (Dixie W. Publishing, 2023) Dragan Primorac and Moses Schanfield (editors): Forensic DNA Applications: An Interdisciplinary Perspective, 2nd Edition (Rutledge, 2023)**  
Meeting Room Oleandar, Ground Floor
- 14:00 **SVANTE PÄÄBO: Archaic genomics**  
Main Conference Room, Ground Floor
- 15:00 **GENE ANALYSIS IN HUMAN HEALTH AND HISTORY: Eskeatnaf Mulugeta, Chair**  
Main Conference Room, Ground Floor
- 15:00 **Comments from the chair**
- 15:05 **Henry Erlich:** In silico sequence size selection and haplotyping using Oxford Nanopore applied to non-invasive prenatal testing of hemoglobinopathies
- 15:40 **MSYI Award: Floor Claessens:** A comprehensive analysis of whole mitogenome heteroplasmy patterns in different forensic tissues

- 15:50 **Nidhi Shah:** Genomic frontiers: Towards universal newborn sequencing
- 16:15 **Selected Oral Communication: Barbara Golob:** Experience with genomic matchmaking: Enhancing diagnostic efficacy and new gene-disease discoveries in NGS diagnostics for rare diseases
- 16:40 **Mateja Hajdinjak:** Zooming into late Neandertal populations with new genomic data
- 17:05 **Selected Oral Communication: Aurore Monnerieu:** Genetic histories of medieval Sicilian individuals
- 17:15 **Selected Oral Communication: Marta Diepenbroek:** Sarmatian Goth or Gothic Sarmatian? Forensics sheds light on surprising Iron/age burial.
- 17:25 **Serena Tucci:** Genomic legacy of archaic hominin introgression
- 17:50 **Toomas Kivisild:** Formation of local population structure in North Europe during and after plague pandemics
- 18:15 **Adjourn**
- 20:00 **ISABS Lecture: John Ioannidis: Science, scientists, and scientific publications: The quest for reproducible and useful research**  
Main Conference Room, Ground Floor

#### DAY 4

#### Thursday, June 20<sup>th</sup>

- 08:30 **Regenerative Medicine II: Atta Behfar, Chair**  
Main Conference Room, Ground Floor
- 08:30 **Comments from the chair**
- 08:35 **David Lott:** Translational tissue engineering
- 08:50 **Jorge Mallea:** Machine perfusion: A platform for organ repair and regeneration
- 09:15 **Thomas Salinas:** Updates in oral/systemic health and reconstruction of craniofacial defects
- 09:40 **Atta Behfar:** Acellular approach for cardiovascular regeneration and wound healing
- 10:05 **MSYI Award: Martina Glavan:** CNS-associated macrophages contribute to intracerebral aneurysm pathophysiology
- 10:15 **Massimiliano Gnecci:** Mesenchymal stromal cell secretome for heart repair
- 10:40 **Selected Oral Communication: Bojan Vrtovec:** Precision medicine approach to cell therapy in heart failure
- 10:50 **Kapil Bharti:** Developing an autologous iPSC cell-based therapy for age-related macular degeneration
- 11:15 **Adjourn**
- 12:00 **LUNCH**  
**Poster Removal**  
Meeting Rooms Ružmarin & Palma 1, Ground Floor
- 14:00 **AARON CIECHANOVER: Bioethics and COVID-19; it is not only the virus, the disease and the vaccine**  
Main Conference Room, Ground Floor
- 15:00 **CLOSING: Dragan Primorac and Stanimir Vuk-Pavlović, Chairs**  
Main Conference Room, Ground Floor
- 15:00 **Comments from the chair**
- 15:05 **Closing Lecture: Robert Hariri:** Placenta-derived therapeutics for cellular and regenerative medicine
- 15:40 **Closing of the Conference**
- 16:00 **Adjourn**