



**B**ol na otoku Braču, ljetno odredište Croatia Airlinesa glasovito po Zlatnom ratu, jednoj od najsunčanijih i najljepših plaža na hrvatskom Jadranu, ali i šire, ovoga je ljeta domaćin uglednim znanstvenicima iz svih krajeva svijeta, koji se ondje okupljaju na jednome od najvažnijih ovogodišnjih skupova na svjetskoj razini. Naime, jedan od najprestižnijih ovogodišnjih znanstvenih događaja iz forenzičke i antropološke genetike te stanične i genske terapije 7<sup>th</sup> ISABS Conference in Forensic, Anthropologic and Medical Genetics and Mayo Clinic Lectures in Translational Medicine, održava se u Bolu (hotel Elaphusa), od 20. do 24. lipnja. Organizatori su skupa Međunarodno društvo primijenjenih bioloških znanosti (International Society for Applied Biological Sciences, ISABS) sa sjedištem u Republici Hrvatskoj ([www.isabs.hr](http://www.isabs.hr)) i jedna od vodećih američkih zdravstvenih institucija Mayo Clinic. Pokrovitelj je kongresa Hrvatska akademija znanosti i umjetnosti, a suorganizatori Penn State University, University of New Haven, European Science Foundation, Sveučilište u Splitu, Sveučilište u Osijeku, Sveučilište u Rijeci, Hrvatsko društvo za humanu genetiku, St. Catherine's Hospital (Zabok, Croatia), Institute for Medical BioMathematics, The Henry C. Lee Institute of Forensic Sciences, Genos-Forensic DNA Laboratory, Eye Clinic Svetlost, The Future Network itd. Službeni je časopis *Croatian Medical Journal* (CMJ). Dosad je objavljeno sedam tematskih brojeva toga časopisa posvećenih kongresima ISABS-a, a u njima je publicirano više od 150 znanstvenih radova, koji su vrlo često citirani u vodećim svjetskim znanstvenim indeksima. U radu ovogodišnjeg skupa, koji je podržala i farmaceutska tvrtka Pliva, sudjeluje više od 500 polaznika i 75 predavača, ukupno iz 45 država svijeta. Među sudionicima bit će i više od 100 studenata koji dolaze iz niza država, od SAD-a do Australije.

Ideju o osnivanju ISABS-ovih skupova (prije osnivanja ISABS-a 2004. skupovi su se vodili pod nazivom *European – American Intensive Course in PCR Based Clinical and Forensic Testing*) pokrenuo je još 1997. godine ugledni hrvatski znanstvenik dr. Dragan Primorac, a podržali su je i odmah se uključili u rad kao suorganizatori dr. Moses Schanfield s *George Washington University* i dr. Stanimir

## LJETNA METROPOLA SVJETSKIH ZNANSTVENIKA

## SUMMER METROPOLIS FOR INTERNATIONAL SCIENTISTS



Piše/By **Ksenija Žlof**

Naše ljetno odredište Bol na Braču u početku ljeta postalo je sjedište znanstvene elite. Najugledniji svjetski znanstvenici letjeli su zrakoplovima Croatia Airlinesa.

At the beginning of summer, our summer destination, Bol on the island of Brač, was the center of the world scientific elite. The most distinguished world scientists flew on Croatia Airlines' aircraft.

Vuk-Pavlović s klinike Mayo. Međunarodno društvo primijenjenih bioloških znanosti, svjetske prepoznatljivosti, neprofitna je udruga osnovana s ciljem promicanja, razvitka i unapređenja primijenjenih bioloških znanosti, osobito u područjima kliničke i molekularne medicine, molekularne biologije (genetike, genomike i proteomike), forenzičkih znanosti i biotehnologije.

U radu kongresa tradicionalno sudjeluju vodeći svjetski stručnjaci iz područja kliničke i molekularne medicine, iz poznatih svjetskih institucija poput Mayo Clinic, Cleveland Clinic, Harvard School of Medicine, University of New Haven, National Institutes of Health (NIH), Max Planck Institute, Thomas Jefferson University, Hadassah Medical Center, Weizmann Institute of Science, George Washington University, Baylor College of Medicine, Penn State University, Federal Bureau of Investigation-FBI, Armed Forces DNA Identification Laboratory-AFDIL, Technion-Israel Institute of Technology, International Commission on Missing Persons (ICMP), Connecticut State Police, Penn State University i mnoge druge.

Od prvoga kongresa održanoga u Splitu 1997. godine pa do danas (Spilf 1997., 2007. i 2009., Dubrovnik 2001. i 2005., te Zagreb 2003. godine), u radu kongresa sudjelovalo je više od 2000 sudionika i 200 predavača, ukupno iz šezdesetak država. Prepoznatljivost je kongresa i u tome što u njegovu radu sustavno sudjeluju i dobitnici Nobelove nagrade (dosad su kao predavači sudjelovali dr. Robert Huber i dr. Richard J. Roberts), a za ISABS-ov kongres 2013. godine potvrđeno je sudjelovanje dr. Ade Yonath, dobitnice Nobelove nagrade za 2009. godinu. Teme ovogodišnjeg kongresa iz područja forenzičkih znanosti uključuju analizu DNA u sudsko-medicinskoj praksi, analizu biljne i životinjske DNA radi forenzičkih vještačenja, vrijednosti DNA baza podataka u otkrivanju počinitelja kaznenih djela, molekularnu antropologiju i istraživanje podrijetla naroda, DNA identifikacije žrtava masovnih katastrofa, itd. U radu forenzičkog dijela skupa puna četiri dana vodeći američki forenzičari iz Penn State University, University of New Haven, New York State Police, Connecticut State Police, George Washington University, Harvard University, University of California-Davis raspravljat će o novim tehnologijama i postupcima u borbi protiv organiziranog kriminala i međunarodnog terorizma. Jedan je od predavača i dr. Henry Lee, jedan od najpoznatijih svjetskih forenzičara, poznat po rješavanju najkompleksnijih slučajeva od kojih su stručnjaci davno digli ruke zbog nedostatka dokaza. Legendarni je istražitelj poznat po tome što pronalazi i najsitnije tragove. U posljednjih 40 godina Lee je sudjelovao u istragama više od 6000 slučajeva, među kojima su bili zločini u Bosni i Hrvatskoj, samoubojstvo Vincea Foster, bivšega pravnog savjetnika u Bijeloj kući za vrijeme Clintonove administracije, revizija atentata na predsjednika Johna Kennedija te smrt JonBennet Ramsey. Od ranih devedesetih godina dr. Henry Lee, u suradnji s hrvatskim forenzičarima, posebice s vodećim hrvatskim stručnjakom za forenzičku genetiku dr. Draganom Primorcem, uključen je u procese identifikacije skeletnih ostataka pronađenih u masovnim grobnicama u Hrvatskoj i Bosni i Hercegovini. Predavač je i dr. Mitchel Holland, direktor forenzičkog programa na Penn State University, jedan od vodećih svjetskih znanstvenika za analizu mitohondrijske DNA, koji je niz godina radio kao direktor DNA laboratorija u sklopu Instituta za patologiju američke vojske u Rockvilleu, gdje su se prvi put metodom DNA identifikovali skeletni ostaci pronađeni u Vijetnamu i Koreji. U radu forenzičkog dijela skupa sudjelovat će i Christopher Asplen, pomoćnik državne od-

vjetnice SAD-a, tijekom mandata Janet Reno, koji je imao veliku ulogu u rješavanju zakonskih okvira pri uvođenju forenzičke analize DNA u SAD-u. Obnašao je i dužnost direktora Nacionalnog povjerenstva za forenzičku DNA analizu u SAD-u. Povjerenstvo je imalo ključnu ulogu u implementaciji DNA tehnologija u kaznenopravnom sustavu SAD-a. Osobito zanimljivo izlaganje u vezi je s radom dr. Manfreda Kaysera (University Medical Center Rotterdam, Netherlands), koji će održati predavanje o temi *Human Appearance: Genetic Basis, DNA Prediction, and Forensic Application*. Dr. Kayser, kao vodeći svjetski stručnjak iz područja *Forensic DNA phenotyping*, bavi se istraživanjem različitih aspekata biologije i genetike, koji mogu razviti nove mogućnosti u rješavanju do sada nerazriješenih forenzičkih slučajeva. Uspio je mapirati gene važne za određivanje boje očiju, i na osnovi toga razvio test za forenzičku aplikaciju na temelju čega se može lakše identificirati počinitelj kaznenog djela. U kliničkom dijelu kongresa ove će se godine posebno obraditi novi molekularni postupci i metodologije pri ranoj dijagnostici karcinoma, kliničko značenje cirkulirajućih tumorskih stanica, imunoterapija u liječenju karcinoma, novi postupci u liječenju side, genska i stanična terapija u regeneraciji hrskavičnoga i koštanog

tkiva, primjena nanotehnologije u medicini, neinvazivna prenatalna dijagnostika, stanična terapija nakon infarkta miokarda, individualizirana medicina.

Osobito zanimanje vlada za sekciju iz antropološke genetike, gdje će vodeći svjetski znanstvenici iz ovog područja, poput dr. Petera Underhilla (*University of Stanford, USA*), dr. Eskea Willersleva (*University of Copenhagen, Denmark*), dr. Marka Stonekinga (*Max Planck Institute, Germany*), dr. Richarda Villemsa (*University of Tartu, Estonia*), predstaviti najnovije rezultate analize Y kromosoma i mitohondrijske DNA u svrhu istraživanja podrijetla naroda. Tematski broj *Croatian Medical Journala* objavit će i dugo očekivani pregledni članak dr. Dragana Primorca, dr. Damira Marjanovića, dr. Pavla Rudana, dr. Petera Underhilla i dr. Richarda Villemsa o genetskom podrijetlu Hrvata. U toj sekciji predavanja će održati i dr. Pavle Rudan (*Croatian Academy for Art and Sciences, Croatia*) te dr. Kristin Young (*University of Kansas, Medical Center, USA*).

U skladu s dosadašnjom tradicijom, među sudionicima skupa koji su prijavili sažetak u sklopu neke od kongresnih tema, odabrat će se najbolji mladi znanstvenici koji će dobiti priliku za usmenu prezentaciju svoga rada, a uz to će im biti dodijeljeno osobito

priznanje kao i atraktivna novčana nagrada. Informacije o održavanju kongresa, kao i prethodnih godina, objavljene su u značajnim svjetskim znanstvenim kalendarima kao što su *Nature Events (Nature Publishing Group)*, *Academy News (American Academy of Forensic Sciences)*, *EMBO events list (European Molecular Biology Organization)* itd. Najave kongresa kao i zbivanja tijekom njegova održavanja uvelike su medijski popraćeni u Hrvatskoj i inozemstvu u obliku dnevnih vijesti, opsežnih tematskih priloga, posebnih televizijskih emisija s gostovanjem eminentnih znanstvenika predavača, njihovih intervjua u ilustriranim jedinicima i sl. ■

**B**ol, a resort on the island of Brač, is the Croatia Airlines summer destination. Its claim to global fame is the so-called Golden Horn or Zlatni Rat as the locals call it, arguably one of the most sun drenched and most beautiful beaches on the Croatian side of the Adriatic coast and even further afield. This year, it plays host to prominent scientists from all over the world who gather there for one of this year's most important global meetings. Namely, one of the most prestigious scientific events dealing with the topics of forensic and anthropological genetics and cell and gene

therapy, the 7<sup>th</sup> ISABS Conference in Forensic, Anthropologic and Medical Genetics and Mayo Clinic Lectures in Translational Medicine is held in Bol (Hotel Elaphusa) between 20<sup>th</sup> and 24<sup>th</sup> June. The organizers of the conference are the International Society for Applied Biological Sciences (ISABS) based in the Republic of Croatia ([www.isabs.hr](http://www.isabs.hr)) and one of the leading American healthcare institutions, the Mayo Clinic. The patron of the meeting is the Croatian Academy of Sciences and Arts and its co-organizers are Penn State University, the University of New Haven, the European Science Foundation, the University of Split, the University of Osijek, the University of Rijeka, the Croatian Society for Human Genetics, St. Catherine's Hospital (Zabok, Croatia), the Institute for Medical BioMathematics, The Henry C. Lee Institute of Forensic Sciences, the Genomic DNA Laboratory, the Eye Clinic Srijetlost, The Future Network, and others. The Croatian Medical Journal (CMJ) is its official magazine. So far, seven CMJ issues dedicated to the topics of ISABS conferences have published 150 scientific papers which are regularly cited in leading scientific indexes all over the world. This year, the meeting supported by Pliva Pharmaceuticals, gathers over 500 participants and 75 lecturers from a total of 45 countries all around the world. The list of participants

includes over 100 students who will come from a number of different countries, spanning the globe from the USA to Australia.

The idea of ISABS conferences (before the ISABS was established in 2004, the gatherings were organized under the name *European – American Intensive Course in PCR Based Clinical and Forensic Testing*) is the brainchild of Croatian scientist Dr. Dragan Primorac, who launched it in 1997. The idea was supported by Dr. Moses Schanfield from George Washington University and Dr. Stanimir Vuk-Pavlović from the Mayo Clinic, who immediately became involved in the project as its co-organizers, as well as the International Society for Applied Biological Sciences (ISABS), a globally recognized non-profit organization founded to promote, enhance and extend research, development and education in molecular biology as applied to clinical and molecular medicine, particularly focusing on molecular genetics, genomics, proteomics, forensic and anthropological genetics, and biotechnology. It has become a tradition for leading international experts in the area of clinical and molecular medicine to participate in the work of the ISABS conferences. They come from prominent institutions from across the world, such as the Mayo Clinic, the Cleveland Clinic, Harvard School of Medicine, the University of New Haven, the National Institutes of Health (NIH), the Max Planck Institute, Thomas Jefferson University, the Hadassah Medical Center, the Weizmann Institute of Science, George Washington University, Baylor College of Medicine, Penn State University, the Federal Bureau of Investigation-FBI, the Armed Forces DNA Identification Laboratory-AFDIL, the Technion-Israel Institute of Technology, the International Commission on Missing Persons (ICMP), the Connecticut State Police, Penn State University and many others.

Since the first conference in Split in 1997 until the present day (Split 1997, 2007 and 2009, Dubrovnik 2001 and 2005, and Zagreb 2003), over 2,000 participants and 200 lecturers from a total of some 60 different countries have taken part in the work of the conferences. The high profile that the conference enjoys lies also in the fact that its work is systematically supported and involves the engagement of Nobel Prize winners (so far, Dr. Robert Huber and Dr. Richard J. Roberts have participated as lecturers). The participation of Dr. Ada Yonath, a Nobel Prize winner in 2009, has already been confirmed for the 2013 ISABS conference.

The topics of this year's conference on forensic sciences include forensic DNA analysis, genetic analysis of forensic non-human material, forensic DNA databases and their role in the

detection of perpetrators of crime, molecular anthropology and the analysis of ancient DNA in the study of the origins of peoples, the DNA analysis of victims of mass disasters, etc. Throughout the entire four days of the forensic part of the conference, leading American forensic experts from Penn State University, the University of New Haven, the New York State Police, the Connecticut State Police, George Washington University, Harvard University and the University of California-Davis will discuss new technologies and procedures used in fighting organized crime and international terrorism. One of the lecturers is also Dr. Henry Lee, one of the leading practitioners of forensic science, famous for solving even the most complicated cold cases that had been long abandoned by many other experts due to the lack of evidence. The legendary investigator is known for finding the tiniest clues. Over the past 40 years, Lee assisted in the investigations of more than 6,000 cases, including war crimes in Bosnia and Herzegovina and Croatia, the suicide of President Clinton's former White House attorney, Vince Foster, a review of the JFK assassination, and the death of JonBennet Ramsey. Since the early 90s, Dr. Henry Lee has worked with Croatian forensic experts, particularly with the leading Croatian authority on forensic genetics, Dr. Dragan Primorac. He has been involved in the processes of identifying skeletal remains that were found in the mass graves in Croatia and Bosnia and Herzegovina. One of the lecturers is also Dr. Mitchel Holland, Director of Forensic Science at Penn State University and one of the leading international experts in mitochondrial DNA analysis. For a number of years, Dr. Holland held the position of Director of the DNA Identification Laboratory Armed Forces Forensic Laboratory (AFDIL) in Rockville. Dr. Holland was responsible for the DNA-assisted identification of the skeletal remains of the soldiers who had been killed in Vietnam and Korea.

Another expert who will participate in the forensic part of the conference is Christopher Asplen, a former assistant US attorney for Janet Reno, who played a major role in drafting laws on forensic analysis in the USA. He was also appointed as the Executive Director of the National Commission on the Future of DNA Evidence in USA. The commission's mission was to maximize the potential of DNA technology in the criminal justice system.

A particularly interesting presentation will be based on the work of Dr. Manfred Kayser (*University Medical Center Rotterdam, the Netherlands*). The topic of his lecture is *Human Appearance: Genetic Basis, DNA Prediction, and Forensic Application*. Dr. Kayser is a leading international expert on forensic DNA phenotyp-

ing. He investigates various aspects of human biology and genetics that potentially provide solutions to currently unsolvable questions in forensics. For instance, he mapped genes involved in eye color, demonstrated that a few genetic markers are sufficient to accurately estimate eye color from DNA and developed a forensically validated DNA test for eye color prediction available for practical applications.

This year, the clinical part of the conference will deal particularly with new molecular procedures and methods for the early diagnosis of cancer; the clinical importance of circulating tumor cells; cell cancer immunotherapy; new methods in the treatment of AIDS; gene and cell therapy for the regeneration of cartilage and bone tissue; the use of nanotechnology in medicine; non-invasive prenatal diagnostics; cell therapy for cardiac arrest and individualized medicine.

A lot of interest has been expressed in the section on anthropological genetics. Leading global experts in the field, such as Dr. Peter Underhill (*University of Stanford, USA*), Dr. Eske Willerslev (*University of Copenhagen, Denmark*), Dr. Mark Stoneking (*Max Planck Institute, Germany*) and Dr. Richard Villems (*University of Tartu, Estonia*) will present the most recent results of Y chromosome and mitochondrial DNA analysis in the investigation of the origins of peoples. A thematic issue of the Croatian Medical Journal will publish the long-awaited review by Dr. Dragan Primorac, Dr. Damir Marjanović, Dr. Pavle Rudan, Dr. Peter Underhill and Dr. Richard Villems on the *Genetic Origin of Croats*. During this section, lectures will also be given by Dr. Pavle Rudan (*Croatian Academy of Sciences and Arts*) and Dr. Kristin Young (*University of Kansas, Medical Center, USA*).

In keeping with tradition, the best young scientists will be selected among the authors who have submitted abstracts about one of the conference topics. They will have the opportunity to present their papers, and they will also receive a special certificate and an attractive monetary reward.

Just like the years before, conference announcements have been published in the most significant international scientific calendars such as *Nature Events* (Nature Publishing Group), *Academy News* (American Academy of Forensic Sciences), *EMBO Events List* (European Molecular Biology Organization), etc. So far, conference announcements and the conference itself have had exceptionally big media coverage in Croatia and abroad in terms of daily reports and news, extensive thematic stories, special television shows with prominent scientists and lecturers as guests, as well as their interviews in illustrated magazines, etc. ■

## Ugledna svjetska imena na okupu Top-notch professionals' get-together

U forenzičkom dijelu skupa predavanje će održati i jedan od vodećih autoriteta iz područja forenzičke genetike / In the part dedicated to forensics lectures will be given by a number of speakers, including dr. Moses Schanfield (George Washington University, USA), dr. Timothy Palmbach, direktor forenzičkog programa pri University of New Haven / Director of Forensic Science at University of New Haven, dr. Zoran Budimlija (Office of Chief Medical Examiner, New York), dr. Cassandra Calloway (Children's Hospital and Oakland Research Institute, USA), dr. Katja Drobnik (Forensic Science Center, Ministry of Interior, Slovenia), dr. Edwin Huffine (Bode Technology Group, USA), dr. Dragan Primorac (University of Split, University of Osijek, Croatia, The Pennsylvania State University, University of New Haven USA), dr. Šimun Anđelinović (University Hospital Split), dr. Damir Marjanović (Institute for Genetic Engineering and Biotechnology, Sarajevo), dr. Erin Williams (The Congressional Research Service, USA), dr. Daniel Vanek (Forensic Science Center, Prague), dr. Fred Bieber (Harvard School of Medicine, USA), koji je radio na identifikaciji žrtava nakon terorističkog napada na svjetski trgovinski centar / who was involved in the identification of victims after the terrorist attack on the World Trade Center, dr. Marilyn Menotti-Raymond (National Cancer Institute, USA) i/and dr. Sree Kanthaswamy, (University of California, Davis, USA), koji će prezentirati najnovije rezultate u analizi životinjske DNA u forenzičke svrhe / who will present the most recent developments in the forensic analysis of animal DNA, dr. Antti Sajantila (University of Helsinki, Finland) govorit će o važnosti farmakogenomike pri forenzičkim vještačenjima / who will speak about the significance of pharmacogenomics in forensic analyses, dr. Theresa Caragine, (Chief Medical Examiner, New York, USA), govorit će o analizi DNA u vrlo kompleksnim slučajevima pronalazača mješavina bioloških tragova više počinitelja kaznenih djela / who will discuss the issue of DNA analysis in very complex cases with biological evidence belonging to several different perpetrators. Dr. Carol Henderson, (Stetson University, USA) i bivša predsjednica Američke akademije za forenzičke znanosti / a former president of the American Academy of Forensic Sciences (American Academy of Forensic Sciences) i/and dr. David Kaye (Penn State University, USA) govorit će o legalnim aspektima forenzičke DNA analize / will discuss the legal aspects of forensic DNA analysis.

U kliničkom dijelu kongresa predavanja će održati vodeći stručnjaci s Mayo Clinic / In the clinical part of the conference lectures will be held by leading experts from the Mayo Clinic (dr. Dennis Gastineau, dr. Matthew Ferber, dr. Jean-Pierre Kocher, dr. Andre Terzic, dr. George Vasmatis, dr. Dušica Babović-Vuksanović, dr. David Smith, dr. Karmen Terzic, dr. Stanimir Vuk-Pavlović), s/with Harvard School of Medicine (dr. Christopher Evans, dr. Aezou Ghazani, itd.), te/and dr. Malcolm Brenner (Baylor College of Medicine, USA), dr. Giorgio Palu (University of Padova, Italy) s/with dr. Doron Lancet (The Weizmann Institute of Science, Israel), dr. Marc Penn (Cleveland Clinic, USA), dr. Daniela Steinberger (Justus Liebig University, Germany), dr. Henning Madry (Saarland University Hospital, Germany), s/with dr. Henryjem Erlichom (Roche Molecular Systems, USA), dr. Karin HaLevi (Institute for Medical BioMathematics, Israel), dr. Samuel Volchenbom (University of Chicago, USA), dr. George Wu (University of Connecticut, Health Center, USA), dr. Stipan Jonjić (Faculty of Medicine-University of Rijeka, Croatia), dr. Zwi Berneman (University of Antwerp, Belgium), dr. Filippo Castiglione (NRC Institute for Computing Applications, Italy), dr. Artemis Simopoulos (The Center for Genetics, Nutrition and Health, USA), dr. Robert Deans

**JUNE 20-24, 2011.**  
BLUESUN HOTEL ELAPHUSA

ISABS [www.isabs.hr](http://www.isabs.hr)

**7<sup>th</sup>**

**ISABS Conference**  
In Forensic, Anthropologic and Medical Genetics

ORGANIZED BY:  
International Society for Applied Biological Sciences

CO-ORGANIZED BY:  
University of New Haven, University of Split, Jozef Juraj Strossmayer University of Osijek, University of Rijeka, Croatian Society of Human Genetics and Prenatal Life Hospital

CONFERENCE VENUE:  
Bluesun Hotel Elaphusa

(Regenerative Medicine, USA), dr. Giulio Pompilio (University of Milan, Italy), dr. Mahendra Rao (Life Technologies Corporation, USA), dr. Moran Elishmereni (Institute for Medical BioMathematics, Israel), dr. Yuri Kogan (Institute for Medical BioMathematics, Israel), dr. Gunnar Kvalheim (Norwegian Radium Hospital, Norway), dr. Boris Martinac (Victor Chang Cardiac Research Institute, Australia). Tijekom kliničkog dijela skupa vodeći stručnjaci iz Izraela / During the clinical part of the conference leading Israeli experts dr. Eliezer Shalev (Technion-Israel Institute of Technology), dr. Ron Tepper (Sapir Medical Center, Israel), dr. Staviv Shalev (Technion-Israel Institute of Technology), dr. Esther Guetta (Sheba Medical Center), dr. Simcha Yagel (Hadassah Medical Center) i/and dr. Ofer Klein (Rebecca Slief Medical Center and BioCep), posebno će obraditi nove postupke i metodologije u neinvazivnoj prenatalnoj dijagnostici / will specially deal with new procedures and methods for non-invasive prenatal diagnostics. European Science Foundation sponzorira cijelu sekciju posvećenu razumijevanju glikolizacije proteina u svrhu dijagnostike i terapije, a u radu sekcije sudjeluju prominentni znanstvenici / The European Science Foundation is the sponsor of the entire section of the conference dedicated to the understanding of the glycolysation of proteins for diagnostic and therapeutic purposes. The work of this section will involve prominent scientists such as dr. Pauline Rudd (The National Institute for Bioprocessing Research and Training, Ireland), dr. Thierry Hennet (University of Zurich, Switzerland), dr. Nicolai Bovin (Shernyakin and

Ovchinnikov Institute of Bioorganic Chemistry, Russian Federation), dr. Gordan Lauc (University of Zagreb, Croatia), dr. Erdmann Rapp (Max Planck Institute, Germany), dr. Manfred Wuhrer (Leiden University, The Netherlands), dr. Hakon Leffler (Lund University, Sweden).



Mitch Holland, Dragan Primorac



Nobelovac dr. Robert Huber, dr. Dragan Primorac i jedan od vodećih svjetskih forenzičara dr. Henry Lee