

# **11<sup>th</sup> CONGRESS OF THE CROATIAN SOCIETY OF MEDICAL BIOCHEMISTRY AND LABORATORY MEDICINE**

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9-12 October 2024 / Vodice, Croatia

## Poštovane kolegice i kolege,

iznimna nam je čast i zadovoljstvo pozdraviti vas na 11. kongresu Hrvatskog društva za medicinsku biokemiju i laboratorijsku medicinu s međunarodnim sudjelovanjem, koji se ove godine održava u Vodicama, od 9. do 12. listopada.

Znanstveni odbor odabrao je znanstveni program čiji je cilj približiti najnovija saznanja u području medicinske biokemije i laboratorijske medicine proizašla iz temeljnih i kliničkih znanosti te njihovu primjenu u praksi. Tijekom četiri dana, od predkongresnog simpozija preko plenarnih predavanja i simpozija obradit ćemo teme poput upravljanja, korištenja informacijskih tehnologija u suvremenom laboratoriju, umjetne inteligencije, laboratorijske endokrinologije, hematookologije, laboratorijske imunologije i metaboličkih bolesti.

Uz ova, specifična područja medicinske biokemije i laboratorijske medicine, predvidjeli smo dvije sekcije gdje će naše kolegice i kolege putem usmenih izlaganja prikazati svoja znanstvena i stručna istraživanja iz svih područja naše struke. Dio istraživanja bit će prikazan u obliku posterskih prezentacija te vas pozivamo da ih pogledate, na klasičan način, ali i na kongresnoj aplikaciji.

Ovom prilikom, željeli smo svima prikazati i vrijedne rezultate rada četiri radne grupe Povjerenstva za znanstveno-stručni razvoj u obliku radionica. Pozivamo sudionike na aktivno sudjelovanje u radionicama kako bi preporuke koje članovi ovih radnih grupa pripremaju bile primjenjive u svim medicinsko-biokemijskim laboratorijima.

Znanstveni program podupiru i naši partneri kroz brojne industrijske radionice i bogatu izložbu svojih proizvoda.

Uz intezivan znanstveni i stručni program, Organizacijski odbor je osigurao i trenutke za druženje s kolegama te razmjenu znanja i iskustava kako bi vam ovaj boravak u šarmantnim Vodicama ostao u trajnom pamćenju.

Veselimo se vašem dolasku!

**Jelena Culej**

Predsjednica Organizacijskog odbora

**Ivana Čelap**

Predsjednica Znanstvenog odbora

## Dear colleagues,

It is our great honor and pleasure to welcome you to the 11th Congress of the Croatian Society of Medical Biochemistry and Laboratory Medicine with international participation, which will be held in Vodice this year, from 9-12 October.

The scientific committee has chosen a scientific program whose goal is to present the latest findings in the field of medical biochemistry and laboratory medicine derived from basic and clinical sciences and their application in practice. During four days, from the pre-congress symposium through plenary lectures and symposia, we will cover topics such as management, use of information technologies in the modern laboratory, artificial intelligence, laboratory endocrinology, hematology, laboratory immunology and metabolic diseases.

In addition to these specific areas of medical biochemistry and laboratory medicine, we have planned two sections where our colleagues will present their scientific and professional research from all areas of our profession through oral presentations. Part of the research will be presented in the form of poster presentations, and we invite you to view them, in the classic way, but also on the congress application.

On this occasion, we organized workshops in order to present the valuable results of the work of four Working groups of the Committee for the Scientific and Professional Development. We invite you to actively participate in the workshops so that the recommendations prepared by the members of these Working groups are applicable to all medical-biochemistry laboratories in Croatia.

The scientific program is also supported by our partners through numerous industrial workshops and a rich exhibition of their products.

In addition to the intensive scientific and professional program, the Organizing Committee also provided moments for socializing with colleagues and exchanging knowledge and experiences so that this stay in the charming Vodice will remain in your memory forever.

We look forward to meeting you!

**Jelena Culej**

President of the Organizing Committee

**Ivana Čelap**

President of the Scientific Committee

# OPĆE INFORMACIJE / GENERAL INFORMATION

## **Registracijski pult / Registration desk:**

Hotel Olympia, prizemlje / Hotel Olympia, Ground floor

9. listopada / October 9<sup>th</sup> / 12-20 h

10. listopada / October 10<sup>th</sup> / 8-17 h

11. listopada / October 11<sup>th</sup> / 8-17 h

12. listopada / October 12<sup>th</sup> / 8-13 h

## **Tehnička podrška za predaju prezentacija /**

### **Technical support for presentations and audio-visual equipment:**

Dvorana Olympia, Dvorana Aqua / Hall Olympia, Hall Aqua

## **Kongresne dvorane / Congress halls:**

Dvorana Olympia [Hotel Olympia], Dvorana Aqua [Hotel Olympia Sky] / Hall Olympia [Hotel Olympia], Hall Aqua [Hotel Olympia Sky]

## **Prezentacija postera / Poster display:**

Dvorana Olympia, 10. i 11. listopada. Autori sami postavljaju tiskane postere od 8:30, a uklanjaju najkasnije do 19:00 sati. Raspored izlaganja nalazi se na 38. - 43. stranici brošure. Organizator ne odgovara za tiskane postere. / Olympia Hall, October 10 and 11. Authors are responsible for setting up their printed posters from 8:30 AM and removing them no later than 7:00 PM. The presentation schedule can be found on pages 38 to 43 of the brochure. The organizer is not responsible for printed posters.

## **Izložbeni prostor / Exhibition space:**

Hotel Olympia, prizemlje / Hotel Olympia, Ground floor

## **Stanke za kavu i ručak / Refreshments and lunch**

**Stanka za kavu / Coffee break:** Predvorje Hotela Olympia - prizemlje / kava i bezalkoholna pića biti će dostupna tijekom trajanja Kongresa (od 10.-11. listopada 2024.) / Hotel Olympia Lobby - Ground floor / Coffee and nonalcoholic drinks will be served during the Congress (October 10-11, 2024)

**Stanka za ručak / Lunch break:** Hotel Olympia, restoran Olympia / ručak će biti dostupan za vrijeme trajanja / Kongresa (od 10.-11. listopada 2024.) / Hotel Olympia, restaurant Olympia / Lunch will be served during the Congress (October 10-11, 2024)

### **Društveni program / Social program**

#### **Otvorenje i počasno predavanje / Opening ceremony with Honorary lecture:**

Dvorana Olympia (9. listopada 2024.) / Hall Olympia (October 9, 2024)

#### **Piće dobrodošlice / Welcome reception:**

Predvorje u prizemlju Hotela Olympia (9. listopada 2024.) / Lobby bar - Ground floor Hotel Olympia (October 9, 2024)

**Kongresna večera / Congress dinner:** Hotel Olympia, restoran Olympia (11. listopada 2024.) u 20.00 sati - samo za sudionike koji su prijavili i platili večeru / Hotel Olympia, restaurant Olympia (October 11, 2024) at 8 pm – only for participants who booked and paid for dinner

**Zatvaranje kongresa / Congress closing:** Dvorana Olympia (12. listopada 2024.) / Hall Olympia (October 12, 2024)

#### **Službeni jezici kongresa / Congress official languages:**

Hrvatski i engleski. Simultani prijevod nije dostupan. / Croatian and English. No simultaneous translation is available.

#### **Tehnički organizator kongresa / Professional Congress Organizer:**

O-TOURS PCO d.o.o. / Gajeva 6/1, 10000 Zagreb

Tel: +385 98 9805716 / Email: tatjana.koprtla@otours.hr

#### **Mrežne stranice kongresa / Congress websites:**

<https://kongres2024.hdmbmlm.hr/index.php/hr/>

<https://events.otours.hr/HDMBLM>

Mobilna aplikacija: pristup aplikaciji EMPL / App: access to the EMPL application

Tel: 099 2772237 / marinko@eventrify.us

#### **Kotizacija uključuje / Registration fee includes:**

- Službeno otvaranje kongresa / Congress opening ceremony
- Ulaz na sva predavanja, simpozije i radionice / Admission to all lectures, symposia and workshops

- Pristup izložbenom prostoru kongresa / Access to the exhibition area of the congress
- Kongresna torba / Congress bag
- Identifikacijski bedž / Identification badge\*
- Korištenje mobilne aplikacije / Mobile application access
- Potvrda o sudjelovanju / Certificate of attendance
- Prijam dobrodošlice / Welcome reception
- Stanke za kavu i ručak / Coffee and lunch breaks

### **Raspored usmenih izlaganja postera / Oral presentation schedule:**

Posterii odabrani za usmenu prezentaciju označeni oznakom su PO. Raspored usmenog izlaganja nalazi sa u znanstvenom programu Kongresa u terminu od 13:55 do 14:55 (četvrtak i petak). / Posters selected for oral presentation are marked as PO. The schedule of the oral presentations is available in the scientific program of the Congress from 13:55 to 14:55 (Thursday and Friday).

### **Sažeci / Abstracts:**

Svi sažeci bit će objavljeni u elektroničkom obliku u posebnom izdanju časopisa Biochemia Medica. / All abstracts will be published in a special on-line issue of the Biochemia Medica journal.

### **Potvrdnice o sudjelovanju / Certificates of attendance:**

Potvrdnica o sudjelovanju bit će dostavljena putem elektroničke pošte tjedan dana nakon završetka Kongresa. / The certificate of attendance will be delivered by e-mail a week after the end of the Congress.

### **Identifikacijski bedž / Identification badge:**

Identifikacijski bedž/e-posjetnica – sadrži NFC oznaku s podacima o sudioniku unesenim prilikom prijave. Kontakt podatci se mogu podijeliti s drugima dodirnom NFC oznake mobitelom čime se spremaju u adresar. /

The identification badge /e-business card – contains an NFC tag with information about the participant entered during registration. Contact data can be shared with others by touching the NFC tag or by scanning the QR code with a mobile phone, which saves it in the address book.

## **ORGANIZATOR / ORGANIZER**



Hrvatsko društvo za medicinsku  
biokemiju i laboratorijsku medicinu /  
Croatian Society of Medical  
Biochemistry and Laboratory Medicine

## **ORGANIZACIJSKI ODBOR / ORGANIZING COMMITTEE**

Jelena Culej - predsjednica / president  
(Zagreb, Croatia)

Marina Čeprnja (Zagreb, Croatia)

Petra Dumanić (Split, Croatia)

Željka Kelava (Varaždin, Croatia)

Iva Lukić (Osijek, Croatia)

Lara Milevoj Kopčinović (Zagreb, Croatia)

Antonija Perović (Dubrovnik, Croatia)

Anita Radman (Zagreb, Croatia)

Anita Somborac Bačura (Zagreb, Croatia)

Jasna Đogić - tajnica / secretary  
(Zagreb, Croatia)

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(Zagreb, Croatia)

Lovorka Đerek (Zagreb, Croatia)

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Mirjana Mariana Kardum Paro  
(Zagreb, Croatia)

Sanja Mandić (Osijek, Croatia)

Domagoj Marijančević (Zagreb, Croatia)

Daniela Šupe-Domić (Split, Croatia)

Sandra Šupraha Goreta (Zagreb, Croatia)

Jelena Vlašić Tanasković (Pula, Croatia)

Jasenka Wagner Kostadinović  
(Osijek, Croatia)

## POČASNI PREDAVAČ / HONORARY LECTURER

Dario Vretenar  
(Zagreb, Croatia)

## PLENARNI PREDAVAČI / PLENARY LECTURERS

Lidija Bilić-Zule (Rijeka, Croatia)  
Nora Nikolac Gabaj (Zagreb, Croatia)  
Dunja Rogić (Zagreb, Croatia)

## PREDAVAČI / LECTURERS

Hans Aerts (Amsterdam, Nederland)  
Andreas Bietenbeck (Munich, Germany)  
Adriana Bokulić (Zagreb, Croatia)  
Joško Božić (Split, Croatia)  
Matija Crnogorac (Zagreb, Croatia)  
Željko Debeljak (Osijek, Croatia)  
Ksenija Fumić (Zagreb, Croatia)  
Vesna Gall (Zagreb, Croatia)  
Olga Gornik Kljajić (Zagreb, Croatia)  
Sanja Goreta (Zagreb, Croatia)  
Ozren Jakšić (Zagreb, Croatia)  
Marko Kumrić (Split, Croatia)  
Ana Kozmar (Zagreb, Croatia)  
Vera Lukić (Belgrade, Serbia)  
Miha Lučovnik (Ljubljana, Slovenia)  
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Delfa Radić Krišto (Zagreb, Croatia)  
Edita Pape Medvidović (Zagreb, Croatia)  
Zoran Šiftar (Zagreb, Croatia)  
Mario Štefanović (Zagreb, Croatia)  
Ivana Zec (Zagreb, Croatia)

## VODITELJI SIMPOZIJA / SYMPOSIUM CHAIRS

Lovorka Đerek (Zagreb, Croatia)  
Mirjana Mariana Kardum Paro  
(Zagreb, Croatia)  
Domagoj Marijančević (Zagreb, Croatia)  
Daniela Šupe-Domić (Split, Croatia)  
Sandra Šupraha Goreta (Zagreb, Croatia)  
Jasenska Wagner Kostadinović  
(Osijek, Croatia)  
Jelena Vlašić Tanasković (Pula, Croatia)

## SEKCIJE RADNE GRUPE / WORKING GROUP SESSIONS

Ana Bronić (Zagreb, Croatia)  
Katarina Čepić (Split, Croatia)  
Snježana Hrabrić Vlah (Rijeka, Croatia)  
Branka Krešić (Split, Croatia)  
Jasna Leniček Krleža (Zagreb, Croatia)  
Marija Milić (Osijek, Croatia)  
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Vanja Radišić Biljak (Zagreb, Croatia)  
Vladimira Rimac (Zagreb, Croatia)  
Tara Rolić (Osijek, Croatia)  
Marijan Tandara (Split, Croatia)  
Željka Vogrinc (Zagreb, Croatia)



## Životopis

## Biography

**Dario Vretenar** diplomirao je fiziku na Prirodoslovno-matematičkom fakultetu Sveučilišta u Zagrebu 1982. godine, magistrirao 1985. te doktorirao 1988. radom iz teorijske nuklearne fizike. Poslijedoktorsko usavršavanje provodi na Sveučilištu u Bologni i Sveučilištu Yale te na Tehničkom Sveučilištu u Münchenu. Od 1982. godine zaposlen je u Zavodu za teorijsku fiziku Fizičkog odsjeka, Prirodoslovno-matematičkog fakulteta Sveučilišta u Zagrebu. Za redovitog profesora u trajnom zvanju izabran je 2006. godine. Bio je gostujući profesor na Sveučilištu u Bologni, na Tehničkom Sveučilištu u Münchenu, Sveučilištu Tokio i Sveučilištu Peking. Kao gostujući znanstvenik radio je na sveučilištima u Bologni, Chongqingu, Jyvaskyli, Münchenu, Pekingu, Solunu, Tokiju te u nacionalnim laboratorijima GSI-Darmstadt, Legnaro, IPN-Orsay i Oak Ridge.

Područje znanstveno-istraživačkog rada akademika Vretenara je teorijska nuklearna fizika. Objavio je više od 300 znanstvenih radova u časopisima uvrštenim u Web of Science bazu te održao



**Dario Vretenar** graduated in physics at the Faculty of Science of the University of Zagreb in 1982, received his master's degree in 1985, and his doctoral degree in 1988 working on theoretical nuclear physics. He performed his postdoctoral training at

the University of Bologna, Yale University and at the Technical University of Munich. He works at the Department of Physics, Faculty of Science, University of Zagreb, since 1982. In 2006, he was promoted as full professor in permanent position. He was a visiting professor at the University of Bologna, the Technical University of Munich, the University of Tokyo and Peking University. As a visiting scientist, he worked at the Universities of Bologna, Chongqing, Jyvaskyla, Munich, Beijing, Thessaloniki, Tokyo and at the national laboratories of GSI-Darmstadt, Legnaro, IPN-Orsay and Oak Ridge.

Professor Vretenar's area of scientific research is theoretical nuclear physics. He published more than 300 scientific papers in journals included in the Web of Science database and held more than a

više od stotinu pozvanih predavanja na međunarodnim konferencijama i radionicama. Organizirao je niz međunarodnih konferencija, znanstvenih radionica i poslijediplomskih škola u Hrvatskoj i inozemstvu, te uredio šest zbornika međunarodnih znanstvenih skupova. Bio je član programskih savjeta nacionalnih laboratorija u Italiji i Finskoj te programskog savjeta "ISOLDE and Neutron Time-of-Flight Experiments Committee", CERN. Pomoćni je urednik časopisa Physical Review Letters i član uredništva časopisa The European Physical Journal A: Hadrons and Nuclei.

Za redovitog člana Hrvatske akademije znanosti i umjetnosti izabran je 2012. godine te za člana Europske akademije (Academia Europaea) 2016. godine. Za glavnog tajnika Hrvatske akademije znanosti i umjetnosti izabran je 2019.

hundred invited lectures at international conferences and workshops. He organized various international conferences, scientific workshops and postgraduate schools in Croatia and abroad, and edited six proceedings of international scientific meetings. He was a member of the program councils of national laboratories in Italy and Finland, and the program council of "ISOLDE and Neutron Time-of-Flight Experiments Committee", CERN. He is a divisional associate editor of Physical Review Letters and member of the editorial board of The European Physical Journal A: Hadrons and Nuclei.

He is a full member of the Croatian Academy of Sciences and Arts since 2012 and a member of the European Academy (Academia Europaea) since 2016. He was elected Secretary General of the Croatian Academy of Sciences and Arts in 2019.

## Životopis

## Biography

**Dunja Rogić**, red. prof. Farmaceutsko biokemijskog fakulteta, rođena je u Zagrebu gdje je završila Farmaceutsko-biokemijski fakultet; 1991. postala je magistar znanosti, 2000. doktor znanosti, a 1995. specijalist medicinske bio-



kemije. Od 1987. radi u KBC Zagreb gdje je od 2013. predstojnik Kliničkog zavoda za laboratorijsku dijagnostiku. Završila je poslijediplomski studij "Leadership and management in health services" (Škola narodnog zdravlja Andrija Štampar Medicinskog fakulteta Sveučilišta u Zagrebu i London School of Economics).

Voditelj je i suvoditelj dvaju znanstvenih projekata, a aktivno je sudjelovala/sudjeluje kao suradnik na 13 znanstvenih projekata Ministarstva znanosti, prosvjete i sporta RH i HRZZ te na dva međunarodna projekta.

Bila je predsjednik znanstvenoga te član organizacijskog odbora više nacionalnih znanstvenih i stručnih skupova, pozvani predavač na brojnim skupovima, a također i voditelj/organizator međunarodnog tečaja: Evidence-based laboratory medicine. Predavač je i organizator na tečajevima trajne edukacije liječnika i medicinskih biokemičara.

**Dunja Rogić**, full professor of the Zagreb University Faculty of Pharmacy and Biochemistry, was born in Zagreb where she graduated from the Faculty of Pharmacy and Biochemistry; she earned her MSc degree in 1991 and PhD in 2000, and she has

been a medical biochemistry specialist since 1995. Since 1987, she has been employed at University Hospital Center Zagreb, and she has been head of Department of Laboratory Diagnostics since 2013. She completed postgraduate study 'Leadership and Management in Health Services' (Zagreb University School of Medicine – Andrija Štampar School of Public Health and London School of Economics). She is leader/co-leader of two research projects and has participated in 13 scientific projects of Croatian Ministry of Science and Education, Croatian Science Foundation and in two international projects.

She has chaired a congress scientific committee and was member of organizing committee of a number of national scientific and professional congresses, an invited speaker at numerous meetings, and also a leader/organizer of international course: Evidence-Based Laboratory Medicine.

Sudjeluje u diplomskoj i poslijediplomskoj nastavi Medicinskog i Farmaceutsko-bio-kemijskog fakulteta Sveučilišta u Zagrebu; autor je 107 znanstvenih i stručnih radova indeksiranih u bazi WoSCC te 230 kongresnih usmenih i posterskih priopćenja na međunarodnim i domaćim znanstvenim i stručnim skupovima. Suurednica je triju nastavnih priručnika, četiri stručne knjige, autorica četiri poglavlja u znanstvenim te 16 poglavlja u stručnim knjigama.

Mentor je u izradi diplomskih i doktorskih radova rada studenata Farmaceutsko-bio-kemijskog fakulteta Sveučilišta u Zagrebu.

Bila je član međunarodnog IFCC Povjerenstva za laboratorijsku medicinu temeljenu na dokazima, član EFLM Radne grupe za poslijeanalitičku fazu, zamjenica predsjednika HKMB, predsjednica Povjerenstva za stručna pitanja HKMB, a od 2019. predsjednica je Povjerenstva za trajno usavršavanje HKMB; član je nekoliko znanstvenih i stručnih društava. Dobitnica je IFCC-AVL međunarodne nagrade za jedan od 10 najboljih radova u području intenzivne njege i hitne laboratorijske medicine, Povelje Hrvatskoga liječničkog zbora za osobite zasluge, nagrade Medicinskog fakulteta za posebno dostignuće u medicinskoj struci i znanosti te nagrade Grada Zagreba.

She has been an invited lecturer and organizer of continuing education courses for both medical biochemists and doctors of medicine.

She participates in undergraduate and graduate study at Zagreb University School of Medicine and Faculty of Pharmacy and Biochemistry; she is the author of 107 research and professional papers indexed in WoSCC and 230 congress posters and oral poster presentations at international and national scientific and professional meetings. She is a co-editor of three university teaching textbooks, four professional textbooks, and author of four chapters in scientific and 16 chapters in professional books.

She is a mentor to students of Zagreb University Faculty of Pharmacy and Biochemistry in planning and completing graduate and doctoral theses.

She was member of the international IFCC Committee for Evidence-Based Medicine, member of EFLM Working Group for Post-analytical Phase, vice president of Croatian Chamber of Medical Biochemists (HKMB), of HKMB Committee for Professional Issues, and since 2019 she has chaired the HKMB Continuing Education Committee; she is also member of several scientific and professional societies. She is a winner of IFCC-AVL international award for one of 10 best papers in the field of intensive care and emergency laboratory medicine, of the Croatian Medical Association award for exceptional merits, of the Zagreb University School of Medicine award for outstanding achievements in medical profession and science, and of the City of Zagreb Award.

**Lidija Bilić-Zulle** rođena je u Rijeci, gdje je završila osnovnu i srednju školu. Diplomirala je na Farmaceutsko-biokemijskom fakultetu Sveučilišta u Zagrebu i stekla zvanje magistre medicinske biokemije. Nakon diplome zapošljava se u Kliničkom zavodu za laboratorijsku dijagnostiku KBC-a Rijeka, gdje radi i danas. Specijalizaciju iz medicinske biokemije i laboratorijske medicine završila je na Kliničkom zavodu za laboratorijsku dijagnostiku Kliničkog bolničkog centra Zagreb. Nakon specijalizacije, zapošljava se na Medicinskom fakultetu Sveučilišta u Rijeci na Katedri za medicinsku informatiku, u kumulativnom radnom odnosu s KBC-om Rijeka. Magistrirala je na Farmaceutsko-biokemijskom fakultetu Sveučilišta u Zagrebu, a doktorirala na Medicinskom fakultetu Sveučilišta u Rijeci, gdje je stekla zvanja docenta, izvanrednog profesora i redovitog profesora medicinske informatike. Osim laboratorijske medicine, njeni znanstveni interesi su metodologija znanstvenog istraživanja, statistička obrada podataka i znanstvena čestitost. Nositeljica je nekoliko kolegija u okviru diplomskih i poslijediplomskih studija Medicinskog fakulteta u Rijeci. Od 2013. godine predstojnica je Kliničkog zavoda za laboratorijsku dijagnostiku KBC-a Rijeka.



**Lidija Bilić-Zulle** was born in Rijeka, where she completed primary and secondary school. She graduated from the Faculty of Pharmacy and Biochemistry at the University of Zagreb with a Master's degree in Medical Biochemistry. After graduation,

she was employed at the Clinical Institute for Laboratory Diagnostics at the Clinical Hospital Centre Rijeka, where she still works today. She completed her specialisation in medical biochemistry and laboratory medicine at the Clinical Institute for Laboratory Diagnostics at the Clinical Hospital Centre Zagreb. After becoming a European specialist in laboratory medicine, she was employed at the Faculty of Medicine of the University of Rijeka in the Department of Medical Informatics, as a joint jobs with the Clinical Hospital Centre Rijeka. She obtained her Master of Science degree at the Faculty of Pharmacy and Biochemistry at the University of Zagreb and her PhD degree at the Faculty of Medicine, University of Rijeka, where she became an assistant professor, associate professor and full professor of medical informatics. In addition to laboratory medicine, her scientific interests include scientific research methodology, statistical data processing and research integrity. She teaches several courses within the graduate and postgraduate studies at the Faculty of Medicine in Rijeka. Since 2013, she has been the head of the Clinical Institute for Laboratory Diagnostics at the Clinical Hospital Centre Rijeka.

**Nora Nikolac Gabaj** diplomirala je na studiju medicinske biokemije na Farmaceutsko-biokemijskom fakultetu 2001. godine. Od 2002. zaposlena je u Kliničkom zavodu za kemiju Kliničkog bolničkog centra Sestre milosrdnice, gdje je danas voditeljica Odjela za opću medicinsko-biokemijsku i toksikološku laboratorijsku dijagnostiku. U razdoblju od 2004.-2009. znanstveni je novak na projektima Ministarstva znanosti, obrazovanja i športa. Poslijediplomski doktorski studij medicinske biokemije na Farmaceutsko-biokemijskom fakultetu upisuje 2005. godine. Specijalistički ispit iz analitičke toksikologije polaže 2009. godine, čime stječe titulu spec. analitičke toksikologije. Doktorsku disertaciju pod naslovom: „Utjecaj polimorfizama gena SUR-1 i KCNJ11 na regulaciju šećerne bolesti tipa 2” brani 2011. godine. 2020. godine izabrana je u naslovno znanstveno-nastavno zvanje docentice u području biomedicine i zdravstva; znanstveno polje: farmacija; znanstvena grana: medicinska biokemija na Farmaceutsko-biokemijskom fakultetu Sveučilišta u Zagrebu. Od 2020. voditeljica je Referentnog centra za medicinsko-biokemijsku dijagnostiku hitnih stanja Ministarstva zdravstva RH.

Nora Nikolac Gabaj je autor ili koautor 80 znanstvenih ili stručnih radova, od



**Nora Nikolac Gabaj** graduated in medical biochemistry at the Faculty of Pharmacy and Biochemistry in 2001. Since 2002, she has been employed at the Department of Clinical Chemistry, Sestre Milosrdnice University Hospital Center, Zagreb,

where she is currently the Head of the Department for medical biochemistry and analytical toxicology. In the period from 2004-2009 she is a researcher on the projects of the Ministry of Science, Education and Sports. In 2005, she enrolled in the postgraduate doctoral study of medical biochemistry at the Faculty of Pharmacy and Biochemistry. She passed the specialist exam in analytical toxicology in 2009, which earned her the title of specialist in analytical toxicology. In 2011, she defended her doctoral dissertation entitled: “The influence of SUR-1 and KCNJ11 gene polymorphisms on the regulation of type 2 diabetes.” In 2020, she was elected to the scientific-teaching title of Assistant Professor at the Faculty of Pharmacy and Biochemistry, University of Zagreb. Since 2020, she has been the Head of the Reference Center for Medical Biochemistry Emergency Diagnostics of the Ministry of Health of the Republic of Croatia.

Nora Nikolac Gabaj is the author or co-author of 80 scientific or professional papers, of which 66 are cited in the Current Contents database, she has 1,621 citations

čega je 66 citirano u bazi podataka Current Contents, ima 1,621 citat u bazi Science Citation Index Expanded (1,522 bez autocitata) uz H-index=22. Urednica je dvije knjige i tri priručnika, autorica 21 poglavlja u knjigama i priručnicima, preko 100 kongresnih sažetaka, pozvani predavač na više od 40 međunarodnih i domaćih znanstvenih i stručnih skupova. Kao član znanstvenog i organizacijskog odbora aktivno sudjeluje u organizaciji 9 kongresa i simpozija iz područja laboratorijske medicine uz samostalno voditeljstvo tri tečaja trajne edukacije Hrvatske komore medicinskih biokemičara. Sudjeluje u nastavi na Farmaceutsko-biokemijskom fakultetu Sveučilišta u Zagrebu, u okviru diplomskog, doktorskog i specijalističkog studija gdje je mentor studentima za izradu diplomskih i doktorskih radova. Dobitnica je Godišnje nagrade Hrvatskog društva medicinskih biokemičara za znanstveni rad u 2008. godini. Aktivni je član Hrvatskog društva za medicinsku biokemiju i laboratorijsku medicinu u sklopu kojeg djeluje unutar Radnih grupa za predanalitiku, endokrinologiju i ekstravaskularne tjelesne uzorke. Glavna je urednica znanstvenog časopisa *Biochemia Medica*.

in the Science Citation Index Expanded database (1,522 without self-citations) with H-index=22. She is the editor of two books and three manuals, author of 21 chapters in books and manuals, over 100 congress abstracts, invited lecturer at more than 40 international and domestic scientific and professional meetings. As a member of the scientific and organizational committee, she actively participated in the organization of 9 congresses and symposia in the field of laboratory medicine, as well as independent management of three continuing education courses of the Croatian Chamber of Medical Biochemists. She teaches at the Faculty of Pharmacy and Biochemistry of the University of Zagreb, within the framework of graduate, doctoral and specialist studies, where she is a mentor to students for the graduate and doctoral theses. She is the winner of the Annual Award of the Croatian Society of Medical Biochemists for scientific work in 2008. She is an active member of the Croatian Society for Medical Biochemistry and Laboratory Medicine, within which she works in the Working groups for pre-analytics, endocrinology and extravascular body samples. She is the Editor-in-Chief of the scientific journal *Biochemia Medica*.

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Zagrebu  
*University of Zagreb*



		9:00 - 9:45 Plenarno predavanje (Olympia): ROGIĆ Voditelj: Grdić Rajković
		STANKA
		10:15 - 12:00 Simpozij (Olympia) Voditelji: KARDUM PARO, WAGNER KOSTADINOVIĆ
		10:15 - 12:00 Simpozij (Aqua) Voditelji: ŠUPRAHA GORETA, MARIJANČEVIĆ
		12:00 - 12:30 Edukativna radionica (Olympia): ABBOTT
12:00 - 20:00 Prijave	Prijave (8:00 - 17:00)	12:35 - 13:05 Edukativna radionica (Olympia): SHIMADZU
		13:05 - 13:55 Posterske prezentacije (Olympia) Stanka za ručak
14:00 - 17:00 Predkongresni simpozij (Olympia) Voditelj: VLAŠIĆ TANASKOVIĆ		13:55 - 14:55 Usmena izlaganja odabranih postera (Olympia) Voditelj: Čelap
		15:00 - 15:30 Edukativna radionica (Olympia): BECKMAN COULTER
		STANKA
		16:00 - 16:45 Edukativna radionica (Olympia): LABENA
		16:50 - 17:50 Edukativna radionica i simpozij radne grupe za sjemenu tekućinu (Aqua): A&B i radna grupa
		16:50 - 17:50 Simpozij radne grupe (Olympia) POSTANALITIKA
18:30 - 19:15 Otvaranje kongresa (Olympia)		
19:15 - 20:00 Počasno predavanje (Olympia)		

Prijava (8:00 - 17:00)	9:00 - 9:45 Plenarno predavanje (Olympia): BILIĆ-ZULLE Voditelj: Celap		Prijava (8:00 - 13:00)	9:00 - 9:45 Plenarno predavanje (Olympia): NIKOLAC GABAJ Voditelj: Mandić
	STANKA			STANKA
	10:15 - 12:00 Simpozij (Olympia) Voditelji: MARIJANČEVIĆ, ŠUPRAHA GORETA	10:15 - 12:00 Simpozij (Aqua) Voditelji: ĐEREK, ŠUPE-ĐOMIĆ		10:15 - 12:00 Simpozij (Olympia) Voditelji: ŠUPE-ĐOMIĆ, ĐEREK
	12:00 - 13:00 Edukativna radionica (Olympia): ROCHE			STANKA
	13:00 - 13:55 Poster prezentacije (Olympia) Stanka za ručak		12:15 - 14:00 Simpozij (Olympia) Voditelji: WAGNER KOSTADINOVIĆ, KARDUM PARO	
	13:55 - 14:55 Usmena izlaganja odabranih postera (Olympia) Voditelj: Grdić Rajković		14:00 - 14:30 Zatvaranje kongresa (Olympia)	
	15:00 - 15:30 Edukativna radionica (Olympia): MES			
	STANKA			
	16:00 - 16:45 Edukativna radionica (Olympia): SIEMENS	16:00 - 16:30 Edukativna radionica (Aqua): ERBA Mannheim		
	16:50 - 17:50 Simpozij radne grupe (Aqua) LIKVORI	16:50 - 17:50 Simpozij radne grupe (Olympia) KOAGULACIJA		
20:00 KONGRESNA VEČERA				

		9:00 - 9:45 Plenary lecture (Olympia): ROGIĆ Chair: Grdić Rajković	
		PAUSE	
		10:15 - 12:00 Symposium (Olympia) Chairs: KARDUM PARO, WAGNER KOSTADINOVIĆ	10:15 - 12:00 Symposium (Aqua) Chairs: ŠUPRAHA GORETA, MARIJANČEVIĆ
		12:00 - 12:30 Educational workshop (Olympia): ABBOTT	
		12:35 - 13:05 Educational workshop (Olympia): SHIMADZU	
12:00 - 20:00 Registration	Registration (8:00 - 17:00)	13:05 - 13:55 Poster presentations (Olympia) Lunch break	
14:00-17:00 Pre-congress symposium (Olympia) Chair: VLAŠIĆ TANASKOVIĆ		13:55 - 14:55 Oral presentations of selected posters (Olympia) Chair: Čelap	
		15:00 - 15:30 Educational workshop (Olympia): BECKMAN COULTER	
		PAUSE	
		16:00 - 16:45 Educational workshop (Olympia): LABENA	
		16:50 - 17:50 Educational workshop and symposium of the seminal fluid working group (Aqua): A&B and working group	16:50 - 17:50 Working group symposium (Olympia) POSTANALYTICS
18:30 - 19:15 Opening of the congress (Olympia)			
19:15 - 20:00 Honorary lecture (Olympia)			

FRIDAY, OCTOBER 11, 2024

SATURDAY, OCTOBER 12, 2024

Registration (8:00 - 17:00)	9:00 - 9:45 Plenary lecture (Olympia): BILIĆ-ZULLE Chair: Čelap		Registration (8:00 - 13:00)	9:00 - 9:45 Plenary lecture (Olympia): NIKOLAC GABAJ Chair: Mandić	
	PAUSE			PAUSE	
	10:15 - 12:00 Symposium (Olympia) Chairs: MARIJANČEVIĆ, ŠUPRAHA GORETA	10:15 - 12:00 Symposium (Aqua) Chairs: ĐEREK, ŠUPE-DOMIĆ		10:15 - 12:00 Symposium (Olympia) Chairs: ŠUPE-DOMIĆ, ĐEREK	
	12:00 - 13:00 Educational workshop (Olympia): ROCHE			PAUSE	
	13:00 - 13:55 Poster presentation (Olympia) Lunch break			12:15 - 14:00 Symposium (Olympia) Chairs: WAGNER KOSTADINOVIĆ, KARDUM PARO	
	13:55 - 14:55 Oral presentations of selected posters (Olympia) Chair: Grdić Rajković			14:00 - 14:30 Closing of the Congress (Olympia)	
	15:00 - 15:30 Educational workshop (Olympia): MES				
	PAUSE				
	16:00 - 16:45 Educational workshop (Olympia): SIEMENS	16:00 - 16:30 Educational workshop (Aqua): ERBA Mannheim			
	16:50 - 17:50 Working group symposium (Aqua) CEREBROSPINAL FLUID	16:50 - 17:50 Simpozij radne grupe (Olympia) KOAGULACIJA			
20:00 CONGRESS DINNER					

**SRIJEDA / 9. listopada 2024.**

## **Predkongresni simpozij [Dvorana Olympia]**

### **Rezultati pacijenata: mogućnosti i dosezi u suvremenim laboratorijima**

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*Voditelj: Jelena Vlašić Tanasković*

- 14:00 – 14:30 Optimization of the continuous control model using patient results – the experience of a large laboratory / Andreas Bietenbeck
- 14:30 – 14:55 Application of moving average procedures for continuous quality control in small laboratories / Vera Lukić
- 14:55 – 15:20 Vanjska procjena kvalitete temeljena na rezultatima pacijenata u medicinskim laboratorijima / Jelena Vlašić Tanasković
- 15:20 – 15:40 **STANKA ZA KAVU**
- 
- 15:40 – 16:05 Izazovi u određivanju indirektnih referentnih intervala / Adriana Bokulić
- 16:05 – 16:30 Veliki podaci, strojno učenje i umjetna inteligencija / Željko Debeljak
- 16:30 – 16:55 Informacijske tehnologije u službi medicinskog biokemičara / Mario Štefanović

### **STANKA**

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- 18:30 – 19:15 Svečano otvaranje Kongresa /** predsjednica organizacijskog odbora, predsjednica HDMBLM-a, gradonačelnik Vodica, župan Šibensko-kninske županije, predsjednica HKMB-a, dekanica FBF-a
- 19:15 – 20:00 Počasno predavanje: Zašto vjerovati znanosti? / Dario Vretenar,** akademik Hrvatske akademije znanosti i umjetnosti

# PROGRAM

WEDNESDAY / 9 October 2024

## Pre-congress symposium [Hall Olympia]

### Patient results: possibilities and potentials in contemporary laboratory settings

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*Chair: Jelena Vlašić Tanasković*

14:00 – 14:30 Optimization of the continuous control model using patient results – the experience of a large laboratory / Andreas Bietenbeck

14:30 – 14:55 Application of moving average procedures for continuous quality control in small laboratories / Vera Lukić

14:55 – 15:20 Patient based external quality assessment in medical laboratories / Jelena Vlašić Tanasković

15:20 – 15:40 **COFFEE BREAK**

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15:40 – 16:05 Challenges in establishing indirect reference intervals / Adriana Bokulić

16:05 – 16:30 Big data, machine learning and artificial intelligence / Željko Debeljak

16:30 – 16:55 Information technologies in the service of the medical biochemist / Mario Štefanović

**BREAK**

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**18:30 – 19:15 Opening of the congress /** President of the organizing committee, President of the CSMBLM, Mayor of Vodice, Prefect of the Šibenik-Knin County, President of the CCMB, Dean of the FFB

**19:15 – 20:00 Honorary lecture: Why trust science? / Dario Vretenar,** fellow of the Croatian Academy of Sciences and Arts

**09:00 – 09:45 Plenarno predavanje [Dvorana Olympia]**  
**Upravljanje suvremenim laboratorijem /** Dunja Rogić

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*Voditelj: Marija Grdić Rajković*

09:45 – 10:15 STANKA ZA KAVU

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**10:15 – 12:00 Simpozij [Dvorana Olympia]**  
**Kliničko i dijagnostičko praćenje limfoproliferativnih bolesti**

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*Voditelji: Mirjana Mariana Kardum Paro, Jasenka Wagner Kostadinović*

10:15 – 10:45 Limfoproliferativne bolesti – etiologija, epidemiologija, patofiziologija, dijagnoza i terapija / Delfa Radić Krišto

10:45 – 11:10 Laboratorijska dijagnostika limfoproliferativnih bolesti / Zoran Šiftar, Mirjana Mariana Kardum Paro

11:10 – 11:35 Molekularna dijagnostika limfoproliferativnih poremećaja: trenutno stanje i perspektive uključivanja u kliničku praksu / Ozren Jakšić

11:35 – 12:00 Sekvenciranje slijedeće generacije – dijagnostički alat za detekciju genetičkih promjena ili nova perspektiva prema ciljanoj terapiji limfoproliferativnih bolesti i personaliziranoj medicini / Margareta Radić Antolic

**10:15 – 12:00 Simpozij [Dvorana Aqua]**  
**Dijabetes i inzulinska rezistencija; izazovi u dijagnostici i znanosti**

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*Voditelji: Sandra Šupraha Goreta, Domagoj Marijančević*

10:15 – 10:45 Patogeneza dijabetesa – treba li revidirati postojeće znanje? / Sandra Šupraha Goreta

10:45 – 11:10 Pretilost, inzulinska rezistencija i dijabetes – globalna epidemija / Edita Pape Medvidović

11:10 – 11:35 Inzulinska rezistencija i dijabetes s laboratorijske točke gledišta / Sanja Goreta



**09:00 – 09:45 Plenary lecture [Hall Olympia]**

**Management of a modern laboratory /** Dunja Rogić

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*Chair: Marija Grdić Rajković*

09:45 -10:15 COFFEE BREAK

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**10:15 – 12:00 Symposium [Hall Olympia]**

**Clinical and diagnostic monitoring of lymphoproliferative diseases**

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*Chairs: Mirjana Mariana Kardum Paro, Jasenka Wagner Kostadinović*

10:15 – 10:45 Lymphoproliferative diseases – etiology, epidemiology, pathophysiology, diagnosis and therapy / Delfa Radić Krišto

10:45 – 11:10 Laboratory diagnostics of lymphoproliferative diseases / Zoran Šiftar, Mirjana Mariana Kardum Paro

11:10 – 11:35 Molecular diagnostics of lymphoproliferative disorders: current state and perspectives of inclusion in clinical practice / Ozren Jakšić

11:35– 12:00 Next generation sequencing – diagnostic tool for detecting genetic alterations or a new perspective towards targeted therapy of lymphoproliferative diseases and personalized medicine / Margareta Radić Antolic

**10:15 – 12:00 Symposium [Hall Aqua]**

**Diabetes and insulin resistance; challenges in diagnostics and science**

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*Chairs: Sandra Šupraha Goreta, Domagoj Marijančević*

10:10 – 10:45 Pathogenesis of diabetes – should existing knowledge be revised? / Sandra Šupraha Goreta

10:45 – 11:10 Obesity, insulin resistance and diabetes – a global epidemic / Edita Pape Medvidović

11:10 – 11:35 Insulin resistance and diabetes from a laboratory point of view / Sanja Goreta

11:35 – 12:00 N-glikom i genom u razumijevanju dijabetesa tipa 1 /  
Olga Gornik Kljaić

**12:00 – 12:30 Edukativna radionica [Dvorana Olympia]**

Strategija uvođenja krvnih biljega za blagu traumatsku ozljedu mozga u hitnom prijemu / Martina Pavletić (*Abbott*)

**12:35 – 13:05 Edukativna radionica [Dvorana Olympia]**

Pedijatrija i masena spektrometrija: nužnost ili daleka budućnost?! / Andrea Radeljak (*Shimadzu*)

**13:05 – 13:55 Prikaz postera [Dvorana Olympia] /**

**STANKA ZA RUČAK**

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**13:55 – 14:55 Usmena izlaganja postera (svako izlaganje traje 6 minuta) [Dvorana Olympia]**

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*Voditelj: Ivana Čelap*

- Can we use vortexing to disaggregate platelet clumps? /  
Vanja Radišić Biljak
- Comparison of intraoperatively measured hemoglobin concentration during liver transplantation between a POCT and a central laboratory method / Iva Friščić
- Lactate as a predictor of early graft failure after liver transplantation / Iva Friščić
- Q-values for left-shift and atypical lymphocytes should be adjusted to optimize flagging performance on Sysmex XN-1500 analyzer / Tina Brenčić
- Comparison of immature granulocytes and reactive lymphocytes obtained by Sysmex XN-1500 and Cellvision DM 1200 /  
Tina Brenčić
- Detection of PML::RARA and BCR::ABL1 fusion transcripts at diagnosis using ready-to-use EasyPGX assay /  
Margareta Radić Antolic
- Stereotyped CLL patients in Croatian population /  
Monika Kolundžić
- How much time can we save with pneumatic tube transport in emergency department? / Ivanka Ostroški

11:35 – 12:00 N-glycome and genome in understanding type 1 diabetes /  
Olga Gornik Kljaić

**12:00 – 12:30 Educational workshop [Hall Olympia]**

Strategy for introducing blood biomarkers for mild TBI in the emergency department / Martina Pavletić (*Abbott*)

**12:35 – 13:05 Educational workshop [Hall Olympia]**

Pediatrics and mass spectrometry: necessity or distant future?! /  
Andrea Radeljak (*Shimadzu*)

**13:05 – 13:55 Poster presentations [Hall Olympia] /**

**LUNCH BREAK**

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**13:55 – 14:55 Oral presentations (6 min per presentation)**

**[Hall Olympia]**

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*Chair: Ivana Čelap*

- Can we use vortexing to disaggregate platelet clumps? /  
Vanja Radišić Biljak
- Comparison of intraoperatively measured hemoglobin concentration during liver transplantation between a POCT and a central laboratory method / Iva Friščić
- Lactate as a predictor of early graft failure after liver transplantation / Iva Friščić
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Margareta Radić Antolic
- Stereotyped CLL patients in Croatian population /  
Monika Kolundžić
- How much time can we save with pneumatic tube transport in emergency department? / Ivanka Ostroški

- Examination of platelet parameters in patients with a clinical suspicion of thrombotic microangiopathy / Pavla Kraljević
- The pharmacogenetic influence on apixaban side effects occurrence / Jozefina Palić

**15:00 – 15:30 Edukativna radionica [Dvorana Olympia]**

Izazovi uvođenja novog imunokemijskog analizatora u klinički laboratorij. Beckman Coulter Dxl 9000 – savjeti i trikovi / Vesna Šupak Smolčić (*Beckman Coulter*)

15:30 – 16:00 STANKA ZA KAVU

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**16:00 – 16:45 Edukativna radionica [Dvorana Olympia]**

Mindray CAL 6000 i MC-80 integrirano rješenje za hematološki laboratorij – naša iskustva / Brankica Šimac (*Labena*)

Mogućnosti digitalnog PCR-a u dijagnostici i kliničkom istraživanju / Uršula Prosenec Zmrzljak i Marina Panek (*Labena*)

**16:50 – 17:50 Edukativna radionica i Radna grupa za sjemenu tekućinu [Dvorana Aqua]**

Automatizacija analize sjemene tekućine . Revolucija ili budućnost? / Marijan Tandara (*A&B*) i Tara Rolić

**16:50 – 17:50 Radna grupa za poslijeanalitiku [Dvorana Olympia]**

*Jasna Leniček Krleža, Vladimira Rimac, Sonja Podolar*

Kako implementirati autovalidaciju i pokazatelje kvalitete u rutinski laboratorijski rad – koraci Radne grupe za poslijeanalitiku

- Examination of platelet parameters in patients with a clinical suspicion of thrombotic microangiopathy / Pavla Kraljević
- The pharmacogenetic influence on apixaban side effects occurrence / Jozefina Palić

**15:00 – 15:30 Educational workshop [Hall Olympia]**

Challenges of implementing a new immunochemical analyzer in the clinical laboratory. Beckman Coulter Dxl 9000 - tips and tricks / Vesna Šupak Smolčić (*Beckman Coulter*)

15:30 – 16:00 COFFEE BREAK

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**16:00 – 16:45 Educational workshop [Hall Olympia]**

Mindray CAL 6000 and MC-80 integrated solution for hematology laboratory – our experiences / Brankica Šimac (*Labena*)  
Possibilities of digital PCR in diagnostics and clinical research / Uršula Prosenec Zmrzljak and Marina Panek (*Labena*)

**16:50 – 17:50 Educational workshop and Working group for seminal fluid [Hall Aqua]**

Automation of seminal fluid analysis. Revolution and the future? / Marijan Tandara (*A&B*) and Tara Rolić

**16:50 – 17:50 Working group for post-analytics [Hall Olympia]**

*Jasna Leniček Krleža, Vladimira Rimac, Sonja Podolar*

How to implement autoverification procedures and quality indicators in routine laboratory work - steps suggested by the Working group for post-analytics

**09:00 – 09:45 Plenarno predavanje [Dvorana Olympia]**

**Odlučivanje / Lidija Bilić- Zulle**

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*Voditelj: Ivana Čelap*

09:45 – 10:15 STANKA ZA KAVU

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**10:15 – 12:00 Simpozij [Dvorana Olympia]**

**Izazovi laboratorijske dijagnostike preeklampsije**

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*Voditelji: Domagoj Marijančević, Sandra Šupraha Goreta*

10:15 – 10:45 Iako znamo toliko o preeklampsiji, zašto je nismo izliječili? /  
Vesna Gall

10:45 – 11:10 Klinički značaj određivanja omjera sFLT-1/PlGF u predviđanju,  
dijagnozi i liječenju preeklampsije / Domagoj Marijančević

11:10 – 11:35 Biljezi u prvom tromjesečju trudnoće za predviđanje preeklampsije  
/ Ivana Zec

11:35 – 12:00 Strategy for prediction and prevention of preeclampsia: a research  
perspective / Miha Lučovnik

**10:15 – 12:00 Simpozij [Dvorana Aqua]**

**Biološka terapija iz kliničke i laboratorijske perspektive**

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*Voditelji: Lovorka Đerek, Daniela Šupe-Domić*

10:15 – 10:45 Što smo postigli razvojem i primjenom biološke terapije? /  
Joško Mitrović

10:45 – 11:10 Laboratorijski testovi u eri biološke terapije – prepoznamo li  
moguće interferencije? / Lovorka Đerek

11:10 – 11:35 Korisnost praćenja koncentracije bioloških lijekova i antitijela na  
biološke lijekove / Ana Kozmar

11:35 – 12:00 Klinička perspektiva u razvoju i implementaciji biološke terapije /  
Matija Crnogorac

**09:00 – 09:45** **Plenary lecture [Hall Olympia]**  
**Decision-making** / Lidija Bilić- Zulle

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*Chair: Ivana Čelap*

09:45 – 10:15 COFFEE BREAK

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**10:15 – 12:00** **Symposium [Hall Olympia]**  
**Challenges of laboratory diagnosis of preeclampsia**

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*Chairs: Domagoj Marijančević, Sandra Šupraha Goreta*

10:15 – 10:45 Although we know so much about preeclampsia, why haven't we cured it? / Vesna Gall

10:45 – 11:10 Clinical utility of the sFlt-1/PlGF ratio in the prediction, diagnosis and management of preeclampsia / Domagoj Marijančević

11:10 – 11:35 Biomarkers in first trimester to predict the preeclampsia / Ivana Zec

11:35 – 12:00 Strategy for prediction and prevention of preeclampsia: a research perspective / Miha Lučovnik

**10:15 – 12:00** **Symposium [Hall Aqua]**  
**Biological therapy from a clinical and laboratory perspective**

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*Chairs: Lovorka Đerek, Daniela Šupe-Domić*

10:15 – 10:45 What have we achieved with the development and application of biological therapy? / Joško Mitrović

10:45 – 11:10 Laboratory testing in biological therapy era – are we able to recognize possible interferences? / Lovorka Đerek

11:10 – 11:35 The utility of therapeutic drug monitoring of biologics and antibodies to biologics / Ana Kozmar

11:35 – 12:00 Clinical perspective in development and implementation of biological therapy / Matija Crnogorac

**12:00 – 13:00 Edukativna radionica [Dvorana Olympia]**

Roche integrated lab featuring lab coagulation /

Oguzhan Zengi (*Roche*)

Expanding role of Mass Spectrometry in Clinical Laboratory /

Dušanka Kasapić (*Roche*)

**13:00 – 13:55 Prikaz postera [Dvorana Olympia] /**

STANKA ZA RUČAK

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**13:55 – 14:55 Usmena izlaganja postera (svako izlaganje traje 6 minuta)  
[Dvorana Olympia]**

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*Voditelj: Marija Grdić Rajković*

- Screening for familial hypercholesterolemia in preschool children – cholesterol results from eight laboratories in Croatia / Antonia Perović
- Lysosomal acid lipase activity in dry blood spots: the influence of platelet and leukocyte count / Monika Polić
- Investigation into the interference of the monoclonal therapeutic drug ocrelizumab in electrophoretic and immunofixation techniques / Ines Šahinović
- Ratio of helpers/cytotoxic lymphocytes and NK/NKT cells as an early marker of gestational diabetes / Jelena Omazić
- Laboratory diagnostics of cerebrospinal fluid (CSF) in Croatia: A dual perspective / Pavica Šonjić
- Kappa Free Light Chain Index (KFLC) as an Quantitative Alternative to Isoelectric Focusing / Nevenka Stančin
- Effects of levothyroxine therapy on markers of endothelial dysfunction in patients with subclinical hypothyroidism / Tihana Serdar Hiršl
- The stability study of thyroid function tests / Rea Takač
- Is miR-193a-3p potential novel biomarker in colorectal cancer? / Marija Fabijanec

**15:00 – 15:30 Edukativna radionica [Dvorana Olympia]**

Laboratory management of anticoagulant drug therapy /

Andreas Rechner (*MES*)



**12:00 – 13:00 Educational workshop [Hall Olympia]**

Roche integrated lab featuring lab coagulation /  
Oguzhan Zengi (Roche)

Expanding role of Mass Spectrometry in Clinical Laboratory /  
Dušanka Kasapić (Roche)

**13:00 – 13:55 Poster presentations [Hall Olympia] /**

**LUNCH BREAK**

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**13:55 – 14:55 Oral presentations (6 min per presentation) [Hall Olympia]**

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*Chair: Marija Grdić Rajković*

- Screening for familial hypercholesterolemia in preschool children – cholesterol results from eight laboratories in Croatia /  
Antonia Perović
- Lysosomal acid lipase activity in dry blood spots: the influence of platelet and leukocyte count /  
Monika Polić
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- Kappa Free Light Chain Index (KFLC) as an Quantitative Alternative to Isoelectric Focusing /  
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- Effects of levothyroxine therapy on markers of endothelial dysfunction in patients with subclinical hypothyroidism /  
Tihana Serdar Hiršl
- The stability study of thyroid function tests /  
Rea Takač
- Is miR-193a-3p potential novel biomarker in colorectal cancer? /  
Marija Fabijanec

**15:00 – 15:30 Educational workshop [Hall Olympia]**

Laboratory Management of anticoagulant drug therapy /  
Andreas Rechner (MES)

15:30 – 16:00 STANKA ZA KAVU

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**16:00 – 16:45 Edukativna radionica [Dvorana Olympia]**

New trends in diagnostics of multiple sclerosis /  
Mario Habek (*Siemens*)

**16:00 – 16:30 Edukativna radionica [Dvorana Aqua]**

BIOSENSORS, a new technology for measurement of electrolytes  
in clinical specimens / Martin Hajsek (*ERBA Mannheim*)

**16:50 – 17:50 Radna grupa za likvorsku dijagnostiku**

**[Dvorana Aqua]**

Željka Vogrinc, Snježana Hrabrić Vlah, Katarina Čepić,  
Vanja Radišić Biljak

Likvorska dijagnostika - kako do konačnog laboratorijskog nalaza

**16:50 – 17:50 Radna grupa za laboratorijsku koagulaciju**

**[Dvorana Olympia]**

Ana Bronić, Marija Milić, Branka Krešić

Probirni koagulacijski testovi: praksa i primjenjivost  
Nacionalnih preporuka

20:00 KONGRESNA VEČERA

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15:30 – 16:00 COFFEE BREAK

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**16:00 – 16:45 Educational workshop [Hall Olympia]**

New trends in diagnostics of multiple sclerosis /  
Mario Habek (*Siemens*)

**16:00 – 16:30 Educational workshop [Hall Aqua]**

BIOSENSORS, a new technology for measurement of electrolytes  
in clinical specimens / Martin Hajnsek (*ERBA Mannheim*)

**16:50 – 17:50 Working group for cerebrospinal fluid diagnostics [Hall Aqua]**

Željka Vogrinc, Snježana Hrabrić Vlah, Katarina Čepić,  
Vanja Radišić Biljak

Cerebrospinal fluid diagnostics - how to reach the final finding

**16:50 – 17:50 Working group for laboratory coagulation [Hall Olympia]**

Ana Bronić, Marija Milić, Branka Krešić

Coagulation screening assays: testing practice and adherence to  
National recommendations

20:00 CONGRESS DINNER

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**09:00 – 09:45 Plenarno predavanje [Dvorana Olympia]  
Umjetna inteligencija u znanstvenom izdavaštvu /**

Nora Nikolac Gabaj

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*Voditelj: Sanja Mandić*

09:45 – 10:15 STANKA ZA KAVU

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**10:15 – 12:00 Simpozij [Dvorana Olympia]  
Izazovi primjene biomarkera u kardiometaboličkim bolestima**

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*Voditelji: Daniela Šupe-Domić, Lovorka Đerek*

10:15 – 10:45 Pogled biokemičara na kardiometaboličke biomarkere /  
Daniela Šupe-Domić

10:45 – 11:10 Razmišljati izvan okvira: uloga CA-125 u zatajivanju srca /  
Marko Kumrić

11:10 – 11:35 Uloga GDF-15 u kardiovaskularnim bolestima: od patofiziologije do  
prakse / Joško Božić

11:35 – 12:00 Interpretacija kardiometaboličkih parametara: izazovi u jedinici  
intenzivnog liječenja / Marijana Mikačić

**12:15 – 14:00 Simpozij [Dvorana Olympia]  
Nove spoznaje o metaboličkim bolestima**

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*Voditelji: Jasenka Wagner Kostadinović, Mirjana Mariana Kardum Paro*

12:15 – 12:45 Lizosom – više od reciklažnog centra /  
Jasenka Wagner Kostadinović

12:45 – 13:10 A new class of substrates for glucocerebrosidase from plant foods  
/ Hans Aerts

13:10 – 13:35 Laboratorijska dijagnostika nasljednih metaboličkih poremećaja u  
doba novih tehnologija – mogućnosti i izazovi / Ksenija Fumić

13:35 – 14:00 Suvremene mogućnosti liječenja nasljednih metaboličkih bolesti /  
Danijela Petković Ramadža

**14:00 – 14:30 Zatvaranje Kongresa**

**09:00 – 09:45 Plenary lecture [Hall Olympia]  
Artificial intelligence in scientific publishing /**

Nora Nikolac Gabaj

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*Chair: Sanja Mandić*

09:45 – 10:15 **COFFEE BREAK**

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**10:15 – 12:00 Symposium [Hall Olympia]  
Challenges of biomarker application in cardiometabolic diseases**

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*Chairs: Daniela Šupe-Domić, Lovorka Đerek*

10:15 – 10:45 Cardiometabolic biomarkers: a biochemist's view /  
Daniela Šupe-Domić

10:45 – 11:10 Thinking outside the box : The role of CA-125 in heart failure /  
Marko Kumrić

11:10 – 11:35 The role of GDF-15 in cardiovascular disease: from  
pathophysiology to practice / Joško Božić

11:35 – 12:00 Interpretation of cardiometabolic parameters: challenges in the  
intensive care unit / Marijana Mikačić

**12:15 – 14:00 Symposium [Hall Olympia]  
New insights into metabolic diseases**

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*Chairs: Jasenka Wagner Kostadinović, Mirjana Mariana Kardum Paro*

12:15 – 12:45 Lysosome – more than a recycling center /  
Jasenka Wagner Kostadinović

12:45 – 13:10 A new class of substrates for glucocerebrosidase from plant foods  
/ Hans Aerts

13:10 – 13:35 Laboratory diagnostics of inherited metabolic disorders in the age  
of new technologies: possibilities and challenges / Ksenija Fumić

13:35 – 14:00 Current strategies for the treatment of inherited metabolic  
diseases / Danijela Petković Ramadža

**14:00 – 14:30 Closing ceremony**

<b>P-1</b>	Tadej Pajič	Deregulated glutamate dehydrogenase activity in lymphocytes of B-cell chronic lymphocytic leukaemia patients
<b>P-2</b>	Ivona Kuktić	The comparison of Euglobulin clot lysis time reference intervals in Beckton Dickinson and Kima 3.2% coagulation tubes
<b>P-3</b>	Tena Žanić	The multiple comparison of erythrocyte sedimentation rate tubes
<b>P-4</b>	Antonija Perović	Comparison of four immunochromatographic tests for the fecal occult blood detection
<b>P-5</b>	Marina Pavić	Comparison of the direct and indirect potentiometric method for electrolytes measurement in serum samples of hospitalized trauma patients
<b>P-6</b>	Marina Čepnja	Evaluation of the accuracy of FUS-II strips for urine analysis in the screening of proteinuria and leukocyturia
<b>P-7</b>	Zrinka Drenšek Brletić	Verification study of four ELISA reagent kits for chromogranin A measurement
<b>P-8</b>	Danijela Županić	The influence of different storage conditions on the stability of C-peptide and insulin
<b>P-9</b>	Petra Andrašić	Vitamin D levels in paediatric population and comparison with the declared values of the manufacturer
<b>P-10</b>	Ana Cuk	Comparison serum ferritin immunoassays on Vitros ECI and Alinity ci analyzers
<b>P-11</b>	Irena Mišur Bauer	Evaluation of the accuracy of LabStrip U mALB/CREA test strip for routine screening of albumin/creatinine ratio in urine
<b>P-12</b>	Nena Peran	Assessing Traumatic Brain Injury: The Role of GFAP and UCH-L1 as Diagnostic Markers
<b>PO-13</b>	Rea Takač	The stability study of thyroid function tests
<b>P-14</b>	Merima Čolić	Performance characteristics of four tumor markers on Maglumi X6 analyzer
<b>P-15</b>	Lovorka Đerek	Is it possible to harmonize anti-dsDNA antibodies? Comparison of six different reagents for anti-dsDNA antibodies determination
<b>P-16</b>	Ana Škaričić	Introduction of second-tier test for detection of homocystinuria in newborn screening

Posteri trebaju biti izloženi od 8-20 sati. Autori su odgovorni za stavljanje i skidanje postera. / Posters should be displayed from 8 am to 8 pm. Authors are responsible for hanging and taking down the posters.

<b>P-17</b>	Jasenka Trifunović	Verification of the TSH method on the Snibe Maglumi X3 analyser and comparison with Abbott Architect i1000SR
<b>P-18</b>	Višnja Batur	Quality control of in-house culture media for primary isolation of Bordetella pertussis during outbreak of whooping cough in Croatia in 2023
<b>P-19</b>	Ivona Kuktić	Analytical verification of two automated immunoturbidimetric assays for determination of fecal calprotectin
<b>P-20</b>	Martha Koržinek	Genetic profiling of patients with colorectal carcinoma and adenomas using next generation sequencing
<b>P-21</b>	Vanja Radišić Biljak	Neutrophil band assessment accuracy – a Croatian national pilot study
<b>P-22</b>	Aram Kim	Changes in Clinical Laboratory Practices Following the Implementation of LSD Neonatal Screening in Korea: A Single laboratory Experience
<b>P-23</b>	Nikolina Blažević	Validation of method for determination of CD3+ cells on flow cytometer BD FACS Canto II
<b>P-24</b>	Anamarija Rade	Establishing method-related reference intervals for anion gap
<b>PO-25</b>	Jelena Omazić	Ratio of helpers/cytotoxic lymphocytes and NK/NKT cells as an early marker of gestational diabetes
<b>PO-26</b>	Pavica Šonjić	Laboratory diagnostics of cerebrospinal fluid (CSF) in Croatia: A dual perspective
<b>P-27</b>	Jana Plavec	Cell differentiation count in body fluids (BF) using automated Sysmex XN-1000 hematology analyser
<b>P-28</b>	Andrea Tešija Kuna	Analytical verification of autoimmune tests on the novel BioCLIA500 fully automated chemiluminescence analyzer
<b>P-29</b>	Viktorija Blagec	A comparison of two different immunoassays for assessing vitamin D status
<b>P-30</b>	Katarina Čepić	Painful crisis in a boy with sickle cell anemia – case report
<b>PO-31</b>	Antonija Perović	Screening for familial hypercholesterolemia in preschool children - cholesterol results from eight laboratories in Croatia

Posterji trebaju biti izloženi od 8-20 sati. Autori su odgovorni za stavljanje i skidanje postera. / Posters should be displayed from 8 am to 8 pm. Authors are responsible for hanging and taking down the posters.

<b>P-32</b>	Marina Čeprija	Metabolic changes in healthy subjects after first 8 months of coronavirus pandemic
<b>P-33</b>	Marijana Jovanović	Methodological differences in the monitoring of inflammatory cytokines
<b>PO-34</b>	Ksenija Fumić	Lysosomal acid lipase activity in dry blood spots: the influence of platelet and leukocyte count
<b>P-35</b>	Adrijana Dorotić	Sensitization profile to birch tree pollen – an importance of recombinant allergens
<b>P-36</b>	Ema Crnek	Verification of the analytical system Labureader Plus 2 and Urised Mini for the qualitative analysis of urine
<b>P-37</b>	Sunghee Min	FBN1 mutation profile in Korean patients with TAAD : Data from AMC Hereditary Thoracic Aortic Aneurysm Registry
<b>PO-38</b>	Tihana Serdar Hiršl	Effects of levothyroxine therapy on markers of endothelial dysfunction in patients with subclinical hypothyroidism
<b>P-39</b>	Vanja Radišić Biljak	Is it safe to use a centrifuged blue top sodium citrate tube for platelet count measurement?
<b>P-40</b>	Valentina Cesar Kocijan	Heterophilic antibodies – a hidden danger in CA 19-9 immunoassay and use of heterophilic blocking tube
<b>P-41</b>	Blazanka Dobrošević	A case report of mantle cell lymphoma followed by chronic myelomonocytic leukemia: An immunophenotypic approach
<b>PO-42</b>	Nevenka Stančin	Kappa Free Light Chain Index (KFLC) as an Quantitative Alternative to Isoelectric Focusing
<b>PO-43</b>	Ines Šahinović	Investigation into the interference of the monoclonal therapeutic drug ocrelizumab in electrophoretic and immunofixation techniques
<b>PO-44</b>	Marija Fabijanec	Is miR-193a-3p potential novel biomarker in colorectal cancer?

Posterji trebaju biti izloženi od 8-20 sati. Autori su odgovorni za stavljanje i skidanje postera. / Posters should be displayed from 8 am to 8 pm. Authors are responsible for hanging and taking down the posters.



<b>P-1</b>	Jasenka Trifunović	Analytical verification of the 25-OH Vitamin D assay on the Snibe Maglumi X3 analyser and comparison with Abbott Architect i1000SR
<b>P-2</b>	Kristina Košutić	Verification of a POCT Horiba Microsemi CRP hematology analyzer
<b>P-3</b>	József Petrik	Detection and characterization of circulating tumor cells in patients with colorectal cancer
<b>P-4</b>	Vanja Radišić Biljak	Comparative evaluation of body fluid cellular analysis by Siemens Advia 2120i and Sysmex XN-1000 hematology analyzer
<b>P-5</b>	Jelena Omazić	The quality of OGTT in pregnancy
<b>P-6</b>	Viktorija Blagec	The stability of parathyroid hormone (PTH), osteocalcin and C-terminal telopeptides of Type I collagen (CTX-I) in serum and plasma
<b>P-7</b>	Filip Penava	Clinical significance of FIB-4 index for MASLD-risk stratification in non-obese patients with diabetes mellitus
<b>P-8</b>	Velimir Belcic	Analytical verification and comparability of coagulation assays on the analyser CA-600 series
<b>P-9</b>	Lara Milevoj Kopčinović	Comparison of laboratory assays for diabetes screening in high risk individuals: which test is the most appropriate?
<b>P-10</b>	Renata Lipovec	Establishing of method-related reference intervals for serum free light-chains
<b>P-11</b>	Sanda Jelisavac Čosić	The precision study for CMIA-Abbott TSH, T4, FT4, FT3 and Tg performed for Alinity i platform
<b>PO-12</b>	Tina Brenčić	Q-values for left-shift and atypical lymphocytes should be adjusted to optimize flagging performance on Sysmex XN-1500 analyser
<b>P-13</b>	Indira Imširović	Does the type and duration of dialysis affects the concentration high sensitive troponin I?
<b>P-14</b>	Marija Božović	Vitamin B1 stability in whole blood sample
<b>P-15</b>	Sandra Židak	Comparison of two immunochromatographic tests for fecal occult blood detection

Posteri trebaju biti izloženi od 8-20 sati. Autori su odgovorni za stavljanje i skidanje postera. / Posters should be displayed from 8 am to 8 pm. Authors are responsible for hanging and taking down the posters.

<b>P-16</b>	Ines Šahinović	Comparison of chromogranin A levels in serum and plasma
<b>P-17</b>	Sanda Jelisavac Čosić	Neonatal thyrotoxicosis caused by maternal autoimmune thyroiditis
<b>PO-18</b>	Iva Friščić	Lactate as a predictor of early graft failure after liver transplantation
<b>P-19</b>	Andelo Beletić	Immunoglobulin G (IgG) N-glycome changes during immunosuppressive treatment of the anti-neutrophil cytoplasmic autoantibody (ANCA)-associated vasculitis - a case report
<b>PO-20</b>	Vanja Radišić Biljak	Can we use vortexing to disaggregate platelet clumps?
<b>P-21</b>	Jasenka Trifunović	Comparison of creatinine results measured by the Jaffe and enzymatic method in patients with spinal cord injury
<b>PO-22</b>	Margareta Radić Antolic	Detection of PML::RARA and BCR::ABL1 fusion transcripts at diagnosis using ready-to-use EasyPGX assay
<b>P-23</b>	Ines Šahinović	IgG4-related disease in a patient with rheumatoid arthritis
<b>P-24</b>	Alen Vrtarić	Interference of ictericia on drug and immunochemistry tests
<b>P-25</b>	Ida Taradi	Assessing the efficacy of automated fragmented red cell (FRC) count and "Fragments?" flag for detecting schistocytes in peripheral blood smears
<b>PO-26</b>	Jozefina Palić	The pharmacogenetic influence on apixaban side effects occurrence
<b>PO-27</b>	Iva Friščić	Comparison of intraoperatively measured haemoglobin concentration during liver transplantation between a POCT and a central laboratory method
<b>P-28</b>	Maja Grabić	Heavy chain disease – case report
<b>P-29</b>	Iva Ušić	Verification of Basophil Granulocyte Reference Interval on the Sysmex XN-550 Analyzer
<b>P-30</b>	Maja Krhač Grgić	Diagnostic performance of a fully automated chemiluminescent immunoassay for glutamic acid decarboxylase autoantibodies (Maglumi anti-GAD)

Posteri trebaju biti izloženi od 8-20 sati. Autori su odgovorni za stavljanje i skidanje postera. / Posters should be displayed from 8 am to 8 pm. Authors are responsible for hanging and taking down the posters.

<b>P-31</b>	Sonja Homar	Analytical verification of the Dymind D7-CRP analyzer
<b>P-32</b>	Jelena Vrdoljak	Analytical verification and comparability of red blood cell count parameters, leukocytes, platelets on the hematology analyser Celltac G
<b>PO-33</b>	Ivanka Ostroški	How much time can we save with pneumatic tube transport in emergency department?
<b>P-34</b>	Koraljka Đurić	Effects of levothyroxine therapy on dyslipidemia in patients with subclinical hypothyroidism
<b>PO-35</b>	Renat Mujagić	Comparison of immature granulocytes and reactive lymphocytes obtained by Sysmex XN-1500 and Cellvision DM 1200
<b>P-36</b>	Vanja Radišić Biljak	The exhaustive verification of the BCS XP automated coagulation analyzer
<b>PO-37</b>	Monika Kolundžić	Stereotyped CLL patients in Croatian population
<b>P-38</b>	Renata Lipovec	Verification of serum Kloneus-S-FLC-kappa and Kloneus-S-FLC-lambda turbidimetry method on Abbott Alinity c analyzer
<b>P-39</b>	Anita Somborac Bačura	Determination of TGF- $\beta$ 1 presence by liquid and tissue biopsy methods in patients with colorectal cancer
<b>P-40</b>	Koraljka Mittel	Stability of iron on the gel after two days
<b>PO-41</b>	Pavla Kraljević	Examination of platelet parameters in patients with a clinical suspicion of thrombotic microangiopathy
<b>P-42</b>	Ivana Baršić Lapić	Hemolysis in blood gas samples: Do we need to pay more attention to preanalytics?
<b>P-43</b>	Josip Knežević	Utility of blood ACE, chitotriosidase activity and CD4/CD8 ratio in bronchoalveolar lavage for pulmonary sarcoidosis diagnosis
<b>P-44</b>	Zafer Gashi	The frequency of follicle-stimulating hormone receptor gene polymorphism and the risk of women and males infertility in Albanian ethnic population in Kosovo

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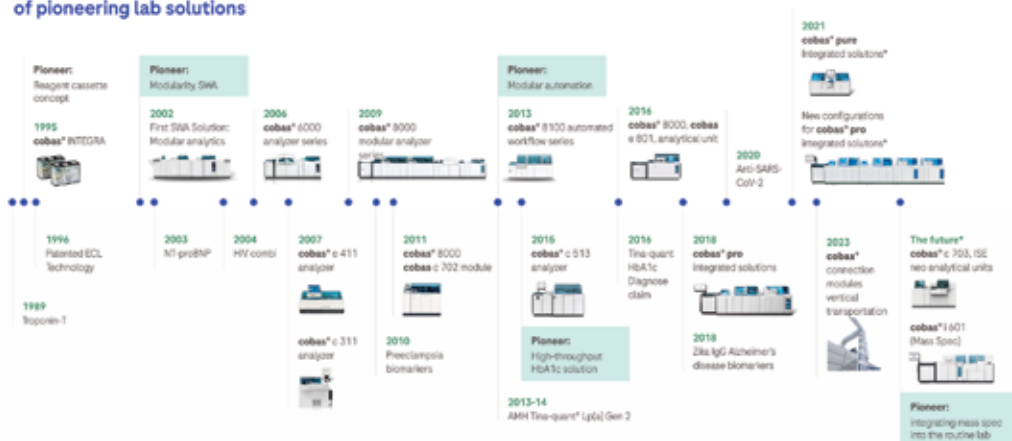
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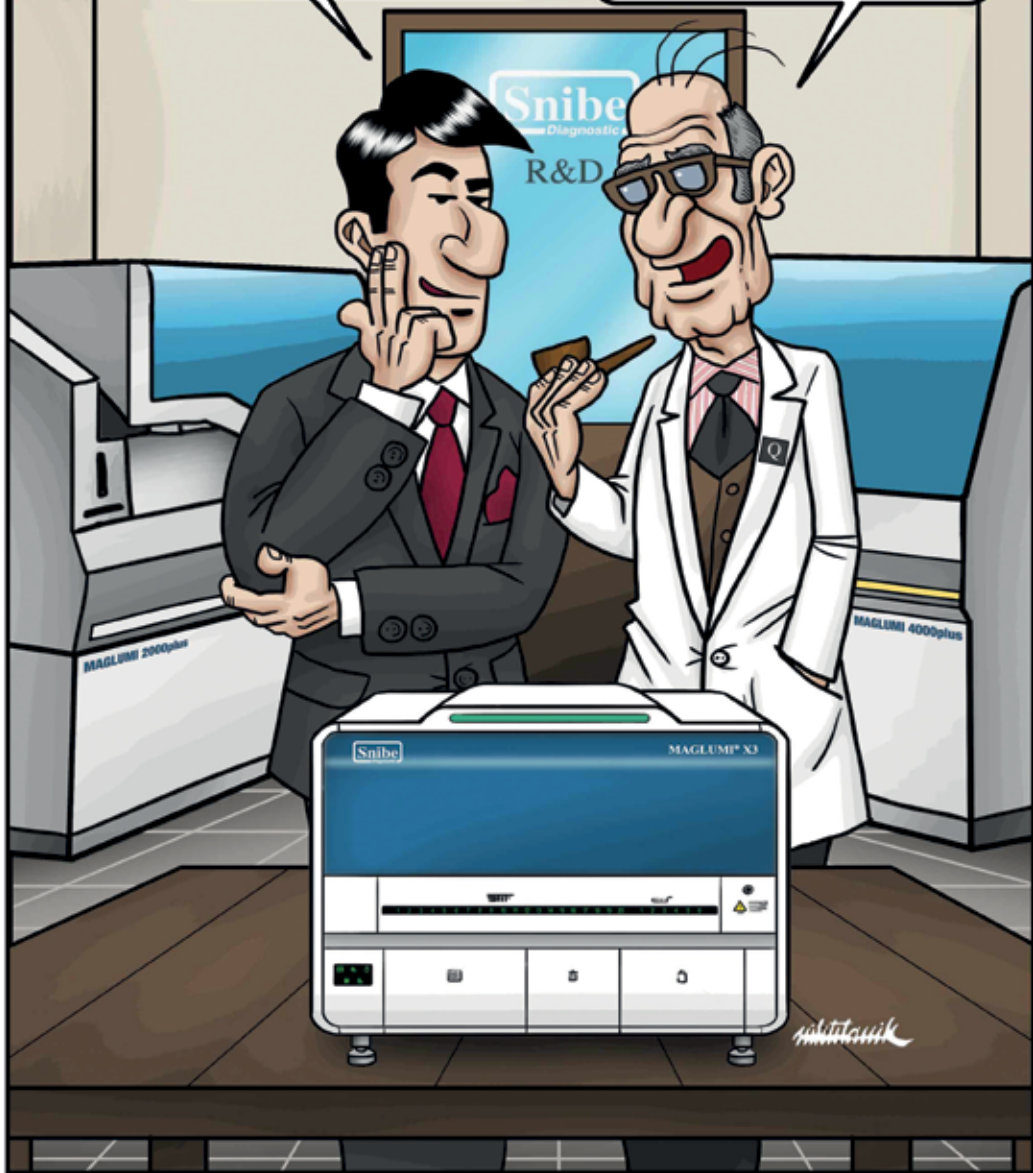
The logo for 'mes' features a 2x2 grid of colored squares to the left of the lowercase text 'mes'. The top row consists of a dark teal square and a dark red square. The bottom row consists of a medium teal square and a light teal square. The text 'mes' is rendered in a bold, grey, sans-serif font.

mes

007, I PRESENT YOU BREAKTHROUGH IN IMMUNOASSAY TESTING - MAGLUMI X3.

OH, IT FITS ON THE SURFACE OF THE BRIEFCASE?

IT TAKES 0.68 M<sup>2</sup>, HAS THE CAPACITY OF 200 T/H AND 20 REAGENT POSITIONS.

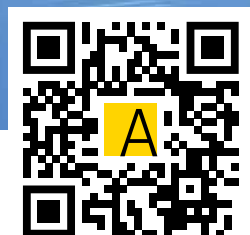




# Connecting ideas

Okupljamo ono,  
što stvara vrijednost.

**Personalizirana dijagnostika,  
Medicinska IT i Life Science**





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Lined area for notes, consisting of 22 horizontal dashed blue lines.

# POPIS IZLAGAČA / EXHIBITOR LIST

ROCHE d.o.o.

SIEMENS HEALTHCARE d.o.o.

LABENA d.o.o.

MES d.o.o.

BECKMAN COULTER d.o.o.

BIOMAX d.o.o.

ABBOTT LABORATORIES d.o.o.

AXON LAB d.o.o.

SHIMADZU d.o.o.

DiaHem d.o.o.

A&B d.o.o.

MEDICAL INTERTRADE d.o.o.

INEL Medicinska tehnika d.o.o.

ALTIUM INTERNATIONAL d.o.o.

BETAMED d.o.o.

RANDOX

JASIKA d.o.o.

BIOSISTEMI d.o.o.

LKB HRVATSKA d.o.o.

KEFO d.o.o.

MEDICO INJŽENJERING d.o.o.

HKO d.o.o.

RADIOMETER d.o.o.

BIOMEDICA DIJAGNOSTIKA d.o.o.

Nakladnik: HDMBLM  
Urednici: Organizacijski odbor  
Design: O Tours PCO d.o.o.