



ENHANCED NETWORKING ON ANTIMICROBIAL RESISTANCE SURVEILLANCE WITH NGS - AMRESU

The aim of the project is to strengthen, to the highest European level, the scientific excellence and innovation capacity in antimicrobial resistance (AMR) surveillance at the Semmelweis University (SU) and the University Hospital for Infectious Diseases „Dr. Fran Mihaljević“ (BFM) and to set-up an 'Antimicrobial resistance surveillance vision' in Hungary and Croatia via the mentoring activities of the internationally-leading research twinning institutions: University of Antwerp (UAntwerp) from Belgium and the Balearic Islands Health Research Institute (IdISBa) from Spain.

Communication partner:

University Hospital for Infectious Diseases
„Dr. Fran Mihaljević“
Croatia
<https://bfm.hr>

Coordinator:

Semmelweis University
Hungary
<https://semmelweis.hu>



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INFORMATION

Venue: Hotel Academia, Tkalčićeva 88, Zagreb

<https://www.hotelacademia.hr/en/>

Date: 23 – 24 February 2023

Application deadline: 13th February 2023

Official language: Croatian and English

Registration fee: 210€ for medical doctors, 150 € for trainees and laboratory technicians

The registration fee is paid to the account of HLZ-a IBAN: **HR7423600001101214818**, Sekcija za rezistenciju bakterija na antibiotike – reference number of recipient **268-153**

Certificate of attendance: Certificate of attendance will be issued by the Croatian Medical Chamber

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Travel and accommodation:

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Croatian Medical Association
Croatian Society for Clinical Microbiology
Section for Antibiotic Resistance

University Hospital for Infectious Diseases „Dr
Fran Mihaljević“
Reference Centre for Antibiotic Resistance
Surveillance of the Ministry of Health

Croatian Academy of Medical Sciences
Public Health Collegium
Committee for Antibiotic Resistance
Surveillance

Enhanced Networking on Antimicrobial
Resistance Surveillance with Next Generation
Sequencing, AmReSu Horizon 2020

X. ANTIBIOTIC SUSCEPTIBILITY TESTING COURSE – the role of diagnostic and antimicrobial stewardship

Zagreb
Hotel Academia
23 - 24 February 2023

Dear colleagues

Over the many years we have been working together on improving and harmonizing the methodology on antibiotic susceptibility testing and we are happy to announce the jubilee 10th course on antibiotic susceptibility testing. Adopting European standards as national ones significantly helped the standardization of laboratory work among not only Croatian, but also European laboratories. We are aware, however, that bacteria are adapting more and more rapidly to the increasing exposure to antibiotics and continuously present a challenge in detecting new resistance mechanisms. The increasingly complex mechanisms of resistance on the one hand and the rapid spread of resistant strains on the other hand require a more detailed analysis of strains using molecular methods. Therefore, we are glad that the Reference Center for Antibiotic Resistance Surveillance of the Ministry of Health at the University Hospital for Infectious Diseases together with partners from Hungary, Belgium and Spain is involved in the project "**Enhanced networking on antimicrobial resistance surveillance with Next Generation Sequencing (AmReSu)**", through which we hope to gain additional knowledge and experience needed to provide a better analysis of the isolates collected within the Croatian network of laboratories. Detailed analysis of bacterial isolates has, however, its purpose and justification only if the isolates were collected because of good clinical and laboratory practice. The focus of this course is, therefore, on the standardization of procedures in the diagnosis of the most common bacterial infectious diseases. Most bacterial infections nowadays are caused by members of the human microbiota, and bacteriological testing can often be completed correctly only because of an individual approach to the patient and close collaboration with clinicians. We hope that the interactive program will enable us to analyze common dilemmas in practice together, as always at our courses we expect a nice friendly atmosphere, and we wish everyone a pleasant stay in Zagreb.

Assoc. Prof. Arjana Tambić Andrašević, MD, PhD, FESCMID
President of the Croatian Committee for Antibiotic Resistance Surveillance

COURSE PROGRAMME

Thursday, 23rd February

12.00 – 13.00 Registration

13.00 – 13.15 **A. Tambić Andrašević:** Introductory words

13.15 – 13.45 **S. Malhotra Kumar:** Resistance to last line antibiotics for gram-negative bacteria

13.45 – 14.15 **D. Szabó:** The role of WGS in antibiotic resistance surveillance

14.15 – 14.45 **C. López Causepé:** Predicting susceptibility phenotypes from WGS resistome analysis

14.45 – 15.00 Discussion

15.00 – 15.30 **Coffee break**

15.30 – 15.50 **A. Tambić Andrašević:** Diagnostics of bloodstream infections

15.50 – 16.10 **N. Papić:** Antibiotic treatment of bloodstream infections

16.10 – 16.30 **S. Šoprek:** Diagnostics of urinary tract infections

16.30 – 16.50 **T. Skuhala:** Antibiotic treatment of urinary tract infections

16.50 – 17.15 Discussion

Friday, 24th February

09.00 – 09.20 **A. Tambić Andrašević:** Diagnostic and antibiotic stewardship

09.20 – 09.40 **I. Butić:** Challenges in antibiotic susceptibility testing

09.40 – 10.00 **S. Bukovski:** Quality control in antibiotic susceptibility testing

10.00 – 10.15 Discussion

10.15 – 10.30 **Coffee break**

10.30 – 10.50 **I. Pristaš:** Diagnostics of respiratory tract infections

10.50 – 11.10 **R. Čivljak:** Antibiotic treatment of respiratory tract infections

11.10 – 11.30 **N. Andrijašević:** Diagnostics of wound infections

11.30 – 11.50 **I. Puljiz:** Antibiotic treatment of wound infections

11.50 – 12.15 Discussion

12.15 – 13.15 **Lunch break**

Tutorials: Selective reporting and antibiogram interpretation

A. Tambić Andrašević: Interpretation of blood culture test results

N. Andrijašević: Interpretation of wound samples test results

I. Butić: Challenges in antibiogram reporting

I. Pristaš: Interpretation of respiratory samples test results

S. Šoprek: Interpretation of urine test results

13.15 – 15.30 Selective reporting and antibiogram interpretation

15.30 – 16.00 **Coffee break**

16.00 – 17.30 Selective reporting and antibiogram interpretation

17.30 – 17.45 **Closing remarks**

Chairs:

Assoc. Prof. Arjana Tambić Andrašević, MD, PhD

Iva Butić, MD, PhD,

Irina Pristaš, MD

Faculty members:

Assoc. Prof. Arjana Tambić Andrašević, MD, PhD.

Nataša Andrijašević, MD

Assoc. Prof. Suzana Bukovski, MD, PhD

Iva Butić, MD, PhD

Carla López Causepé, PhD

Assoc. Prof. Rok Čivljak, MD, PhD

Prof. Surbhi Malhotra Kumar, PhD

Asst. Prof. Neven Papić, MD, PhD

Irina Pristaš, MD

Assoc. Prof. Ivan Puljiz, MD, PhD.

Asst. Prof. Tomislava Skuhala MD, PhD

Prof. Dora Szabo, MD, PhD

Silvija Šoprek, MD

