

# UMS+24<sup>o</sup> SERIES

04<sup>th</sup> - 06<sup>th</sup> April 2024

MONA PLAZA Hotel, Belgrade

XIII CONGRESS OF MICROBIOLOGISTS OF SERBIA  
MIKROMED REGIO 5

FROM BIOTECHNOLOGY  
TO HUMAN AND  
PLANETARY HEALTH



CONGRESS



PROGRAMME

ORGANIZER :



SUPPORTED BY :



Federation of European  
Microbiological Societies



Republic of Serbia  
MINISTRY OF SCIENCE,  
TECHNOLOGICAL DEVELOPMENT AND INNOVATION



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## UMS 24 PROGRAMME

 **Thursday, April 4, 2024**

 **08:00-09:00** Registration of participants

 **Venue - Hall „DONJI DORČOL“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor**

ORGANIZATIONAL OPENING REMARKS - **Ivica Dimkić, Dušan Kekić & Lazar Ranin**

 **08:45-09:30** **Jelena Begović** - Ministry of Science, Technological Development and Innovation  
**Ljubiša Stanisavljević** - Dean of the Faculty of Biology of the University of Belgrade  
**Luciano Catani** - Science Attaché at the Italian Embassy in Belgrade, Serbia  
**Vaso Taleski** - FEMS Director of Events & Internationalization FEMS - 50 years of successful connecting people and sharing knowledge in microbiology worldwide

### SESSION IA-1

#### MICROBIAL GENETICS, METAGENOMICS AND METAPROTEOMICS (PART 1) – MICROBIOMES AND RECENT DEVELOPMENTS & PROBIOTICS

Chaired by: **Maja Rupnik & Nataša Golić**


-  **09:30-09:55** **Maja Rupnik (Slovenia)**: The role of gut microbiota on infection with multiresistant bacteria
-  **09:55-10:20** **Nataša Golić (Serbia)**: The use of integrative multi-omics approach in cultivation and characterization of gut bacteria related to microbiota-gut-brain axis as a source for Next Generation Probiotics
-  **10:20-10:45** **Vladimir Milivojević (Serbia)**: The importance of probiotics and modulation of microbiota in gastroenterology
-  **10:45-11:10** **Mirjana Rajilić-Stojanović (Serbia)**: Modulation of human mycobiota as a tool for promoting health
-  **11:10-11:35** **Marina Atanasković-Marković (Serbia)**: Dangerous relations: bacteria, antimicrobial therapies, and allergic diseases
-  **11:35-11:50** **Hristina Mitrović (Serbia, Offer. pres.)**: From gut to lab: unlocking anti-inflammatory potential with GABA-producing bacteria
-  **11:50-12:10** **AbelaPharm (INDUSTRY LECTURE) - Nada Tršić-Milanović (Serbia)**: From microscope to shelf: How our research becomes strength

 **Venue - Hall „SCHONDA 4“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor**

### SESSION IB-1

#### INDUSTRIAL AND FOOD MICROBIAL BIOTECHNOLOGY (PART 1) - MICROBIAL VALORIZATION OF WASTES AND SECONDARY MATERIALS & BIOTECHNOLOGY AND SYNTHETIC MICROBIOLOGY

Chaired by: **Vera Karličić & Alexander Osmolovskiy**

 **09:30-09:55** **Alexander Osmolovskiy (Russian Federation)**: Proteinases of filamentous fungi as activators of hemostatic system proteins: key properties and application

- 🕒 09:55-10:20 **Nemanja Mirković (Serbia):** Bacteriocins: past, current knowledge and future prospects
- 🕒 10:20-10:45 **Marina Jovanović (Serbia):** Valorization of psychobiotics and agri-food by products as functional ingredients
- 🕒 10:45-11:10 **Vera Karličić (Serbia):** Ecological services of beneficial microorganisms as a paradigm of sustainable agroecosystems
- 🕒 11:10-11:25 **Vincent Léguillier (France, Offer. pres.):** Structural optimization of an I-motif aptamer for the specific detection of *Staphylococcus aureus*
- 🕒 11:25-11:40 **Marija Duvnjak (Croatia, Offer. pres.):** Aerobic stability of the alfalfa silage
- 🕒 12:10-12:30 **COFFEE BREAK**
- 🕒 12:20-12:30 **GROUP PHOTO IN FRONT OF THE MONA PLAZA HOTEL**

📍 Venue - Hall „DONJI DORČOL“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor

#### SESSION IIA-1

##### ACTIVE IMMUNIZATION AS THE KEY ELEMENT IN INFECTION PREVENTION AND CONTROL (PART 1) - VIRAL VACCINES

Chaired by: **Maja Stanojević & Aleksandra Knežević**

- 🕒 12:30-12:55 **Maja Čupić (Serbia):** Vaccines for influenza and Covid 19 - what we need to know
- 🕒 12:55-13:20 **Aleksandra Knežević (Serbia):** HPV vaccines in the cancer prevention – recommendations and future prospective
- 🕒 13:20-13:45 **Maja Stanojević (Serbia):** Poliovirus eradication: challenges of containment
- 🕒 13:45-14:10 **Ivana Lazarević (Serbia):** Advances, challenges and novelties in HBV and HCV vaccines development
- 🕒 14:10-14:35 **Ana Banko (Serbia):** Development of new viral vaccines with a focus on the new RSV vaccine

📍 Venue - Hall „SCHONDA 4“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor

#### SESSION IIB-1

##### ENVIRONMENTAL MICROBIOLOGY AND BIOTECHNOLOGY (PART 1) - HOST-MICROBE INTERACTIONS & TOWARDS A MORE SUSTAINABLE AGRICULTURE AND SOIL MICROBIAL LEGACY

Chaired by: **Ines Mandić Mulec & Ivica Dimkić**

- 🕒 12:30-12:55 **Ines Mandić Mulec (Slovenia):** Social strategies by beneficial bacterium *Bacillus subtilis*
- 🕒 12:55-13:20 **Vittorio Venturi (Italy):** Inter-species bacterial signaling in the plant microbiome
- 🕒 13:20-13:45 **Stéphane Compant (Austria):** Harnessing fungal-bacterial interactions to improve plant growth and health
- 🕒 13:45-14:10 **Ioannis Kampouris (Germany):** A consortium of plant-beneficial microorganisms mitigates drought effects on maize by aiding the recruitment of focal soil microorganisms in rhizosphere
- 🕒 14:10-14:25 **Dmitrii Deev (Slovenia, Offer. pres.):** Enhancing bioremediation efficiency: novel isolation techniques for microbial consortia in recalcitrant PAH-contaminated soils
- 🕒 14:25-14:40 **Ivana Galić (Serbia, Offer. pres.):** Soil microbiome diversity in maize-winter wheat crop rotation

🕒 14:40-15:30 LUNCH BREAK

📍 Venue - Hall „DONJI DORČOL“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor

🕒 15:30-15:50 EuroMedicina (INDUSTRY LECTURE) - Aleksa Jovanović (Serbia): EXS2600 MALDI TOF - new possibilities

#### SESSION IIIA-1

#### ENVIRONMENTAL MICROBIOLOGY AND BIOTECHNOLOGY (PART 2) - TOWARDS A MORE SUSTAINABLE AGRICULTURE AND SOIL MICROBIAL LEGACY & PHYTOPATHOLOGY

Chaired by: Jovana Grahovac & Aleš Lapanje

- 🕒 15:50-16:15 **Aleš Lapanje (Slovenia):** Harnessing spatial microbiome dynamics for cutting-edge environmental biotechnology
- 🕒 16:15-16:40 **Dorđe Bajić (The Netherlands):** Using fitness landscapes to engineer optimal function in microbial communities
- 🕒 16:40-17:05 **Matjaž Hladnik (Slovenia):** Comparative analysis of phyllosphere microbiota in olive leaf spot disease
- 🕒 17:05-17:30 **Jovana Grahovac (Serbia):** Microbial biomass production and application within biorefinery concept
- 🕒 17:30-17:45 **Marko Vincenković (Croatia, Offer. pres.):** Preparation, characterization and application of copper microparticles in controlling of phytopathogenic fungi

📍 Venue - Hall „SCHONDA 4“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor

#### SESSION IIIB-1

#### PANEL SESSION - INFECTIONS IN PATIENTS ON IMMUNOMODULATION AND IMUNOSUPRESIVE THERAPIES

Moderator: Dušan Kekić

- 🕒 15:50-17:45 **PANELISTS:**  
 Gordana Petrović (Serbia)  
 Tamara Knežević (Serbia)  
 Borko Gobeljić (Serbia)  
 Aleksandra Plavšić (Serbia)  
 Ana Banko (Serbia)
- PRESENTING CASES:**  
**Tijana Đerić (Serbia):** Occurrence of pneumonia in a patient on biological therapy due to TRAPS  
**Olga Odanović (Serbia):** Infections in patients with inflammatory Bowel disease on biologic therapy: Challenges in management  
**Ljubica Matic (Serbia):** Biological therapy and infections in hematopoietic stem cell transplantation  
**Uroš Karić (Serbia):** A series of rare infectious complications in an immunosuppressed patient with SLE

🕒 17:45-18:10 COFFEE BREAK



 Venue - Hall „DONJI DORĆOL“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor

**SESSION IVA-1**

**INDUSTRIAL AND FOOD MICROBIAL BIOTECHNOLOGY (PART 2) - FOOD MICROBIOLOGY**

Chaired by: **Mirna Mrkonjić Fuka & Konstantinos Papadimitriou**




-  **18:10-18:35**     **Tamar Sachaneli (Georgia):** Microbial diversity of Georgian artisanal cheese production
-  **18:35-19:00**     **Konstantinos Papadimitriou (Greece):** Multi-omics approaches to characterize the microbiome of certain greek artisanal fermented foods and wines
-  **19:00-19:25**     **Mirna Mrkonjić Fuka (Croatia):** Fermented food ecosystems - a treasure chest of untapped microbial potential
-  **19:25-19:40**     **Marija Todorovska Ivkovikj (North Macedonia, Offer. pres.):** Isolation and characterization of yeasts from Macedonian vineyards for production of Macedonian unique wine

 Venue - Hall „SCHONDA 4“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor

**SESSION IVB-1**

**ACTIVE IMMUNIZATION AS THE KEY ELEMENT IN INFECTION PREVENTION AND CONTROL (PART 2) - VIRAL VACCINES**

Chaired by: **Danijela Miljanović & Ivana Lukić**

-  **18:10-18:35**     **Danijela Miljanović (Serbia):** MMR vaccine and seroprevalence of measles, mumps and rubella IgG antibodies among young medical students in Serbia
-  **18:35-19:00**     **Ivana Lukić (Serbia):** mRNA vaccine manufacturing – challenges in plasmid DNA cloning vector design
-  **19:00-19:15**     **Marko Janković (Serbia, Offer. pres.):** Human cytomegalovirus oncoprotection across diverse populations, tumour histologies, and age groups: the relevance for prospective vaccinal therapy

 **Friday, April 5, 2024**



 **08:00-09:00**     Registration of participants

 Venue - Hall „DONJI DORĆOL“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor

**SESSION IA-2**

**MULTI DRUG AND PAN DRUG RESISTANCE & HEALTH MICROBIOLOGY AND BIOTECHNOLOGY (PART 1)**

Chaired by: **Ina Gajić & Paul Cos**

-  **09:00-09:25**     **Paul Cos (Belgium):** Challenges and lessons learned from antimicrobial research projects
-  **09:25-09:50**     **Ina Gajić (Serbia):** Genomic epidemiology of carbapenem-resistant *Pseudomonas aeruginosa*

- 🕒 09:50-10:15 **Katarina Novović (Serbia):** *Acinetobacter baumannii* resistant to last line antibiotics: an emerging threat in Western Balkan
- 🕒 10:15-10:40 **Dušan Milivojević (Serbia):** From soil to lab: Exploring toxicology with *Caenorhabditis elegans*
- 🕒 10:40-10:55 **Miloš Jovičević (Serbia, Offer. pres.):** High-level resistance of carbapenem-resistant *Klebsiella pneumoniae* to novel  $\beta$ -lactam- $\beta$ -lactamase inhibitor combinations in clinical settings in Serbia
- 🕒 10:55-11:20 **Jose Alexander (USA) - online:** Understanding antimicrobial resistance for testing and treatment strategies
- 🕒 11:20-11:40 **bioMérieux (INDUSTRY LECTURE) - Snežana Jovanović (Serbia):** Syndromic PCR or how to solve diagnostic Rubik's cube easily

📍 Venue - Hall „SCHONDA 4“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor

#### SESSION IB-2

#### MICROBIAL GENETICS, METAGENOMICS AND METAPROTEOMICS (PART 2) - MICROBIOMES AND RECENT DEVELOPMENTS & MICROBIAL GENOMES AND THEIR EVOLUTION

Chaired by: Livia Leoni & Gergely Maróti

- 🕒 09:00-09:25 **Livia Leoni (Italy):** Role of stringent response in *Pseudomonas aeruginosa* virulence
- 🕒 09:25-09:50 **Gergely Maróti (Hungary):** Genome level investigation of inter-kingdom microbial interactions
- 🕒 09:50-10:15 **Elena Perrin (Italy):** Insights into the evolution of multipartite genomes in *Proteobacteria*
- 🕒 10:15-10:40 **Svetlana Ugarčina Perović (Italy) - online:** Challenges in metagenomic annotation of antibiotic resistome
- 🕒 10:40-10:55 **Marko Panić (Serbia, Offer. pres.):** Exploring *E. coli*-based expression of genetically inactivated tetanus toxin for vaccine development
- 🕒 10:55-11:10 **Allwin Mabes Raj (Slovenia, Offer. pres.):** Mer B (organomercurial-lyase) mediated quartz crystal microbalance (QCM) based methylmercury detection

🕒 11:40-11:55 **COFFEE BREAK**

📍 Venue - Hall „DONJI DORČOL“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor

#### SESSION IIA-2

#### ACTIVE IMMUNIZATION AS THE KEY ELEMENT IN INFECTION PREVENTION AND CONTROL (PART 3) - BACTERIAL VACCINES

Chaired by: Tamara Kastrin & Nataša Opavski

- 🕒 11:55-12:20 **Tamara Kastrin (Slovenia):** The importance of vaccination and national surveillance of invasive bacterial diseases and whooping cough in Slovenia
- 🕒 12:20-12:45 **Nataša Opavski (Serbia):** Do we need higher valency pneumococcal conjugate vaccines in Serbia?
- 🕒 12:45-13:10 **Marko Veljković (Serbia):** Vaccination against pertussis in Serbia: past, current challenges and future perspectives
- 🕒 13:10-13:35 **Nevena Jovičić (Serbia):** Complications of pneumococcal pneumonia in children
- 🕒 13:35-14:00 **Aleksandar Sovtić (Serbia):** Respiratory infections in children – over the horizon

📍 Venue - Hall „SCHONDA 4“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor

**SESSION IIB-2**

**ENVIRONMENTAL MICROBIOLOGY AND BIOTECHNOLOGY (PART 3) - BIODETERIORATION OF MATERIALS: EXTREME ENVIRONMENTS & ANTIMICROBIAL RESISTANCE: A ONE HEALTH CHALLENGE**

Chaired by: **Cecilia Flocco & Nikola Unković**

- 🕒 11:55-12:20 **Cecilia Flocco (Germany):** New perspectives for microbiology and biotechnology in cultural heritage research
- 🕒 12:20-12:45 **Nikola Unković (Serbia):** Research into the application of bacterial-based bioformulations in the conservation of fungal-deteriorated works of art in Serbia
- 🕒 12:45-13:10 **Nikolina Udiković Kolić (Croatia):** Environmental spread of antibiotic resistance – the role of industrial, agricultural and municipal waste
- 🕒 13:10-13:35 **Stoimir Kolarević (Serbia):** Impact of untreated wastewaters on the microbiological water quality of the Danube river and its tributaries in Serbia
- 🕒 13:35-14:00 **Dragana Predojević (Serbia):** Phytoplankton in small water bodies

🕒 14:00-15:00 **LUNCH BREAK**

📍 Venue - Hall „DONJI DORČOL“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor

- 🕒 15:00-15:20 **Pfizer (INDUSTRY LECTURE) - Ivana Ćirković (Serbia):** Together in the fight against AMR, from immunization and diagnostics to targeted therapy

**SESSION IIIA-2**

**ALTERNATIVE APPROACHES IN ANTIMICROBIAL CONTROL (PART 1) - BACTERIOPHAGES APPLICATIONS**

Chaired by: **Mariagrazia Di Luca & Goran Vukotić**

- 🕒 15:20-15:45 **Mariagrazia Di Luca (Italy):** Unveiling the Janus-Face of Bacteriophages: A dual perspective on antibacterial therapy
- 🕒 15:45-16:10 **Hugo A. M. de Oliveira (Portugal):** Novel bacteriophage-based depolymerase strategies to control *A. baumannii*
- 🕒 16:10-16:35 **Goran Vukotić (Serbia):** Bacteriophages of multidrug-resistant nosocomial pathogens – Belgrade experience
- 🕒 16:35-17:00 **Luís D. R. de Melo (Portugal):** Phage-host interaction with cells in different metabolic states: *A. S. epidermidis* case
- 🕒 17:00-17:15 **Sonja Gostimirović (Serbia, Offer. pres.):** Non-tailed icosahedral phages as antibacterial agents

📍 Venue - Hall „SCHONDA 4“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor

**SESSION IIIB-2**

**PANEL SESSION - INTRAHOSPITAL AND EMERGING INFECTIONS**

Moderator: **Dušan Kekić**

- 🕒 15:20-17:15 **PANELISTS:**  
**Miodrag Milenović (Serbia)**  
**Novica Nikolić (Serbia)**  
**Jelena Jordović (Serbia)**



**PRESENTING CASES:**

**Marija Rajković (Serbia):** Fulminant necrotizing fasciitis: A fatal outcome. Case series

**Elena Đukić (Serbia):** Unraveling the mystery: A case of septic shock with unknown origin

**Ana Mirković (Serbia):** A case report of *Staphylococcus aureus* prosthetic valve endocarditis in patient with Randu – Osler – Weber syndrome

**Martina Jug (Serbia):** Aspergillosis - diagnostic and therapeutic challenges

🕒 17:45-19:15 **POSTER VIEWING SESSION - HALL CLUB OF THE HOTEL PALACE, GROUND FLOOR, TOPLIČIN VENAC 23, BELGRADE**

📅 **Saturday, April 6, 2024**

🕒 08:30-09:30 **Registration of participants**

📍 **Venue - Hall „DONJI DORČOL“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor**

**SESSION IA-3**

**MICROBIAL GENETICS, METAGENOMICS AND METAPROTEOMICS (PART 3) - MICROBIOMES AND RECENT DEVELOPMENTS & MICROBIAL GENOMES AND THEIR EVOLUTION**

Chaired by: **Tamara Janakiev & Alfonso Esposito**

- 🕒 09:30-09:55 **Nađa Nikolić (Serbia):** Microbiomes in oral carcinomas
- 🕒 09:55-10:20 **Alfonso Esposito (Italy):** Next-Generation Sequencing and Bioinformatics: How does microbiology benefit from cutting edge technologies?
- 🕒 10:20-10:45 **Tamara Janakiev (Serbia):** Plant microbiomes: from diversity to healthy crops
- 🕒 10:45-11:00 **Maurizio Zotti (Italy, Offer. pres.):** Microbiome associated with mycelial activity of three species of *Basidiomycetes*: Fairy rings in the gardens of the Royal Palace of Caserta (Italy)
- 🕒 11:00-11:15 **Daria Tsibulskaia (Serbia, Offer. pres.):** Description of a new potential aggregation factor from the *Streptococcus thermophilus* genome
- 🕒 11:15-11:40 **Jose Alexander (USA) - online:** Implementation of a rapid, cost-effective, and clinically focused NGS solution

📍 **Venue - Hall „SCHONDA 4“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor**

**SESSION IB-3**

**HEALTH MICROBIOLOGY AND BIOTECHNOLOGY & ALTERNATIVE APPROACHES IN ANTIMICROBIAL CONTROL (PART 2)**

Chaired by: **Lidija Đokić & Jon Salmanton-García**

- 🕒 09:30-09:55 **Marina Šantić (Croatia):** *Legionella pneumophila* - journey from the environment to human macrophages

- 🕒 09:55-10:20 **Jon Salmanton-García (Germany):** Overview on the current situation on epidemiology and management of IFI and future perspectives
- 🕒 10:20-10:45 **Ivana Čolović Čalovski (Serbia):** Diagnosis of intestinal helminth infections: strengths and limitations
- 🕒 10:45-11:10 **Eleonora Dubljanin (Serbia):** Biomarker guided antifungal therapy: a current state of laboratory mycology and antifungal management
- 🕒 11:10-11:35 **Lidija Đokić (Serbia):** New approaches in the treatment of chronic bacterial infections

🕒 11:40-12:10 **COFFEE BREAK**

📍 **Venue - Hall „DONJI DORČOL“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor**

### SESSION IIA-3

#### ALTERNATIVE APPROACHES IN ANTIMICROBIAL CONTROL (PART 3) - BIOTECHNOLOGICAL APPROACH OF USING NATURAL PRODUCTS & NANOTECHNOLOGY IN MICROBIOLOGY

Chaired by: **Marina Soković & Ivana Gobin**

- 🕒 12:10-12:35 **Marina Soković (Serbia):** Microfungi as a target and source of valuable compounds
- 🕒 12:35-13:00 **Ivana Gobin (Croatia):** Biofilms in premise plumbing systems - current challenges and potential solutions
- 🕒 13:00-13:25 **Marina T. Milenković (Serbia):** Herbal products as an alternative to antibiotics: application possibilities and limitations
- 🕒 13:25-13:50 **Tatjana Stević (Serbia):** Biocontrol activity of plant products against plant pathogens
- 🕒 13:50-14:05 **Miroslav Dinić (Serbia, Offer. pres.):** Host-microbiota interplay regulates epithelial barrier function and wound healing

📍 **Venue - Hall „SCHONDA 4“ of the MONA PLAZA Hotel, Cara Uroša 62-64, First floor**

### SESSION IIB-3

#### WORKSHOP “NEXT GENERATION SEQUENCING (NGS) IN MICROBIOLOGY “

Moderators: **Valentina Đorđević & Ivana Morić**

- 🕒 12:10-12:35 **Valentina Đorđević (Serbia):** Center for Genome Sequencing and Bioinformatics
- 🕒 12:35-13:00 **Ivana Morić (Serbia):** Introduction to NGS technologies
- 🕒 13:00-13:25 **Mirjana Novković (Serbia):** Genome sequence diversity of SARS-CoV-2 in Serbia during pandemic
- 🕒 13:25-13:55 **Nada Stanković & Ivana Galić (Serbia):** Metagenomic studies

🕒 14:15-14:30 **ORGANIZATIONAL CLOSING REMARKS**



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