



**SOUTH-EAST
TRANSNATIONAL CONGRESS
OF MICROBIAL SCIENCES**

June 10-13, 2026 Belgrade, Serbia

Scientific Programme

MicroFusion, Big impact

microbiology, health
& environment in harmony

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Republic of Serbia
MINISTRY OF SCIENCE,
TECHNOLOGICAL DEVELOPMENT AND INNOVATION

MINISTRY OF SCIENCE,
TECHNOLOGICAL DEVELOPMENT
AND INNOVATION



SOUTH-EAST TRANSNATIONAL CONGRESS OF MICROBIAL SCIENCES

June 10-13, 2026 | Belgrade, Serbia



Scientific & Organizing Committee Chairperson

Ivica Dimkić

University of Belgrade – Faculty of Biology

Scientific & Organizing Committee Co-Chairperson

Dušan Kekić

University of Belgrade – Faculty of Medicine

Honorary Scientific & Organizing Committee Co-Chairperson

Lazar Ranin

President of the Serbian Society of Microbiology

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Republic of Serbia
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TRANSNATIONAL CONGRESS
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June 10-13, 2026 | Belgrade, Serbia



**MicroFusion,
Big Impact**
microbiology, health
& environment in harmony

Scientific Programme

Day 1


 **Wednesday, 10 June 2026**

Belgrade Youth Center (Dom omladine Beograda) · Makedonska 22

 14:00–15:30



REGISTRATION of Participants & Sponsor Exhibition Visit

 15:30–16:15

GREAT HALL

WELCOME NOTES BY ORGANIZERS AND DISTINGUISHED GUESTS

Lazar Ranin — Honorary Scientific & Organizing Committee Co-Chairperson & President of UMS

Dušan Kekić — Scientific & Organizing Committee Co-Chairperson

Ivica Dimkić — Scientific & Organizing Committee Chairperson


Branka Vasiljević & Branko Jovčić — FEMS Secretary General & FEMS Serbian Delegate

Vaso Taleski — Former FEMS Director of Events & Internationalization

HU (Milutin) Zhiyu & Wang Kang — Embassy of the People's Republic of China in Serbia

Luciano Catani — Scientific Attaché of the Italian Embassy

Amos Reichman — Director of the French Institute in Serbia


 16:15–17:00

GREAT HALL


KEYNOTE SESSION 1: FRONTIERS HEALTH & CLINICAL INNOVATIONS

Microbiome Breakthrough

Introductory note: *Ivica Dimkić*

 16:15–17:00

Gabriele Berg — Austria — Understanding and managing the plant microbiome for One Health


 17:15–19:00

GREAT HALL

**INTEGRATED PLENARY SESSION 1:
ENVIRONMENTAL INNOVATIONS & SUSTAINABLE SOLUTIONS**

Applied & Environmental Science

Chairs: *Monica Höfte & Jasmina Nikodinović Runić*

 17:15–17:45

Monica Höfte — Belgium — Role and fate of cyclic lipopeptides in phytobiomes

- 🕒 17:50–18:20 **Jasmina Nikodinović Runić** — Serbia — Microbiological upcycling of plastic waste
- 🕒 18:25–18:55 **Masaki Shintani** — Japan — From *Pseudomonas* plasmids to a global plasmid database: Insights into mobility and emerging AMR

- 🕒 19:00–21:30 **MEDIUM HALL 'AMERIKANA'**
WELCOME RECEPTION WITH VIRTUOSO
SAŠA SMILJKOVIĆ



Day 2

 **Thursday, 11 June 2026**

Belgrade Youth Center (Dom omladine Beograda) · Makedonska 22, Belgrade, Serbia

- 🕒 08:00–09:00  **REGISTRATION of Participants**

- 🕒 09:00–10:45 **GREAT HALL**
INTEGRATED PLENARY SESSION 2: FRONTIERS
HEALTH & CLINICAL INNOVATIONS
Antimicrobials & Resistance / Clinical & Public Health Microbiology
Chairs: Paul Cos & Natasha Griffith

- 🕒 09:00–09:30 **Liang Yang** — China — Formation of *Pseudomonas aeruginosa* biofilms and microbial community remodeling
- 🕒 09:35–10:05 **Natasha Griffith** — The USA — A wild ride through ups and downs of successful clinical and public health laboratory leadership
- 🕒 10:10–10:40 **Paul Cos** — Belgium — Targeting *Mycobacterium tuberculosis* redox metabolism: A challenging path to inhibitor discovery

- 09:00–10:45 **MEDIUM HALL 'AMERIKANA'**
INTEGRATED PLENARY SESSION 3:
ENVIRONMENTAL INNOVATIONS
& SUSTAINABLE SOLUTIONS
Applied & Environmental Science / Ecology & Evolution of Host-Associated Microorganisms
Chairs: Zhong Wei & Daniele Daffonchio

- 🕒 09:00–09:30 **Daniele Daffonchio** — Italy — The agroecosystem 'Microbial Terroir' promotes fruit quality and carbon sequestration
- 🕒 09:35–10:05 **Zhong Wei** — China — Harnessing rhizosphere phage for One Health
- 🕒 10:10–10:40 **Alexandre Jousset** — Switzerland — Democratizing biotechnology: Harnessing artificial intelligence to decode and engineer microbiomes

- 🕒 10:45–11:30  **Coffee Break & Poster Viewing — Morning Session**

🕒 10:50–11:25 **GREAT HALL** 

- 🕒 10:50–11:05 **Institute of Molecular Genetics and Genetic Engineering (40 years)**
— A legacy of 40 years in science, discovery, and the people who redefine boundaries
- 🕒 11:10–11:25 **Institute for Microbiology and Immunology, Medical Faculty, University of Belgrade**
— A legacy of 100 years in science and practice

🕒 10:45–11:25 **MEDIUM HALL 'AMERIKANA'**
OFFERED FLASH TALKS SESSION
Chair: Miloš Jovičević

- 🕒 10:45–10:50 **Milica Gajić Bojić** — Bosnia & Herzegovina — Prevalence of urogenital infections and antimicrobial susceptibility in pregnant women with preeclampsia in the Republic of Srpska
- 🕒 10:50–10:55 **Nikola Plačkić** — Serbia — Isolation, screening and characterization of bacteriophages targeting biofilm-forming *Acinetobacter baumannii*
- 🕒 10:55–11:00 **Marija Atanasković** — Serbia — GH130-BG31 β -1-mannosidase reduces biofilm formation and potentiates antibiotic activity in clinically relevant pathogens
- 🕒 11:00–11:05 **Dijana Hasić** — Bosnia & Herzegovina — Contamination of urine cultures at the primary health care level as indicator of quality
- 🕒 11:05–11:10 **Tea Ganić** — Serbia — Biofilm matrix of *Acinetobacter baumannii* wound isolate was affected by antibiofilm agents: cinnamon essential oil and its emulsion
- 🕒 11:10–11:15 **Vukašin Janković** — Serbia — *Streptomyces rubiginosohelvolus* NP10 as a platform strain for biodegradation of cellulose-based materials in composting systems
- 🕒 11:15–11:20 **Kristjan Gašpirc** — Slovenia — Real-time assessment of early-stage and mature biofilm formation and toxicity of chemical stressors using an integrated GenFade vaterite-based system and flow cytometric analysis
- 🕒 11:20–11:25 **Iva Vojtkuf** — Croatia — Methane-cycling prokaryotic communities in contrasting continental and Mediterranean lakes

🕒 11:25–11:30 **GREAT HALL**
A GROUP PHOTO

🕒 11:30–13:00 **GREAT HALL**
IN-DEPTH SYMPOSIA SESSION 1:
INNOVATIVE BIOTECH & INDUSTRIAL APPLICATIONS
Industrial & Environmental Biotechnology
Chairs: Aleš Lapanje & Marko Vinceković

- 🕒 11:30–11:50 **Aleš Lapanje** — Slovenia — Microbial ecosystem engineering by electrostatic design
- 🕒 11:55–12:15 **Marko Vinceković** — Croatia — Encapsulation of probiotics in biopolymer microparticles
- 🕒 12:20–12:30 **Ealisha Jha** — Slovenia (offered talk) — Polyelectrolyte-driven surface engineering as a strategy for constructing compatible and multifunctional microbial consortia
- 🕒 12:30–12:40 **Igor Pavlovski** — North Macedonia (offered talk) — Donkey milk-derived probiotics as next-generation tools against antimicrobial resistance
- 🕒 12:40–12:50 **Dmitrii Deev** — Slovenia (offered talk) — Development of a microfluidic screening approach for isolation of bacterial consortia with phytotoxicity-reducing activity towards olive pomace phenolics

🕒 11:30–13:00 **MEDIUM HALL 'AMERIKANA'**
IN-DEPTH SYMPOSIA SESSION 2: "FROM SCULPTURES TO SOURDOUGH: MICROBIOLOGICAL LEGACIES IN CULTURAL HERITAGE"
ENVIRONMENTAL INNOVATIONS & SUSTAINABLE SOLUTIONS

From Ancient to Innovative: Microbial Solutions for Sustainability of Cultural Heritage

Chairs: Cecilia Flocco & Nikola Unković

🕒 11:30–11:50 **Cecilia Flocco** — Germany — Microbiomes of cultural heritage: Inferring human impact on collections in a changing environment

🕒 11:50–12:10 **Nikola Unković** — Serbia — The air we breathe, the heritage at risk: 20-year research toward air-quality guidelines

🕒 12:10–12:30 **Aleksandar Knežević** — Serbia — Fungal deterioration of an ancient monoxyle and a 15th-century shipwreck from the archaeological site Viminacium (Serbia)

🕒 12:30–12:40 **Ana-Marija Milisav** — Croatia (offered talk) — Microbial and fungal community diversity in glacial lake sediments of Durmitor National Park, Montenegro

🕒 12:40–12:50 **Ihab Malat** — Slovenia (offered talk) — From adhesion to function: multiscale imaging of *Aureobasidium pullulans* for living coating development

11:30–13:00 **CLUB DOB HALL**
IN-DEPTH SYMPOSIA SESSION 3:
FRONTIERS HEALTH & CLINICAL INNOVATIONS

Clinical Virology

Chairs: Biljana Popovska Jovičić & Ivana Gmizić

🕒 11:30–11:50 **Ivana Gmizić** — Serbia — Metabolic disorders in the Belgrade HIV cohort

🕒 11:55–12:15 **Biljana Popovska Jovičić** — Serbia — HIF-1a rs11549465 polymorphism and metabolic syndrome in people living with HIV

🕒 12:20–12:30 **Jovana Ranin** — Serbia (offered talk) — Cardiometabolic comorbidities in an aging person living with HIV: A case report from the Belgrade HIV cohort

🕒 12:30–12:40 **Marko Marković** — Serbia (offered talk) — Cardiovascular risk in people living with HIV in Belgrade

🕒 12:40–12:50 **Milan Tanasijević** — Serbia (offered talk) — Bone health assessment in people living with HIV: Real-world data from Serbia

🕒 13:00–14:00  **LUNCH BREAK**

🕒 14:00–15:00 **GREAT HALL**
PANEL DISCUSSION 1:
"CHALLENGES IN INFECTION MANAGEMENT IN THE ICU"
FRONTIERS HEALTH & CLINICAL INNOVATIONS

Fighting Drug Resistance: Novel Diagnostics and Therapies

Moderator: Uroš Karić

Uroš Karić — Serbia — Common misconceptions about microbiology lab results

Marija Đukanović — Serbia — Treating MDR and XDR pathogens in the ICU: Real-world problems and solutions

Anika Trudić — Serbia — Clinical relevance of microbiological findings in drug-resistant infection management

🕒 15:15–16:15

GREAT HALL

**PANEL DISCUSSION 2: “SHOWCASING THE CLINICAL VALUE OF POINT OF CARE TESTING IN INFECTIOUS DISEASES”
FRONTIERS HEALTH & CLINICAL INNOVATIONS**

Diagnostics: Bacteriology, Public Health Microbiology, Veterinary Microbiology, and Parasitology

Moderator: Vera Tešić & Nikolina Babić

Vera Tešić & Nikolina Babić — The USA

Uroš Karić — Serbia

🕒 14:00–16:15

MEDIUM HALL ‘AMERIKANA’

IN-DEPTH SYMPOSIA SESSION 4: INNOVATIVE BIOTECH & INDUSTRIAL APPLICATIONS

Advanced Industrial Microbiology: Bioproductions, Bioconversions, and Fermentations

Chairs: Michael Sauer & Milica Mirković

🕒 14:00–14:20

Michael Sauer — Austria — Renewable resources and the fossil industry

🕒 14:25–14:45

Steffen Lindner-Mehlich — Germany — Towards carbon agnostic fermentation

🕒 14:50–15:10

Milica Mirković — Serbia — Lactic acid bacteria: Beyond fermentation - applications in health and probiotics

🕒 15:15–15:35

Bojana Bogovič Matijašič — Slovenia — Sustainable whey bioconversion into LAB-derived metabolites with emphasis on bacteriocin production and functionality

🕒 15:40–15:50

Danka Matijašević — Serbia — From antibacterial activity to virulence targeting: antibiofilm potential of medicinal mushroom extracts

🕒 15:50–16:00

Veronika Lyamina — Russia (offered talk) — Detection, isolation and characterization of the properties of the gluten-hydrolyzing proteolytic complex from the micromycete *Aspergillus parasiticus*

🕒 14:00–16:15

CLUB DOB HALL

IN-DEPTH SYMPOSIA SESSION 5: FRONTIERS HEALTH & CLINICAL INNOVATIONS

Gut Microbiota and Human Diseases/ Host-Pathogen Interactions and Microbial Pathogenesis in Human and Animal Systems

Chairs: Mirjana Rajilić Stojanović & Aleksandar Pavić

🕒 14:00–14:20

Aleksandar Pavić — Serbia — Redefining the role of *Candida albicans* in cystic fibrosis lung disease

🕒 14:25–14:45

Teresa Zelante — Italy — Functional microbial cliques in the oral mucosa underline oral dysbiosis and host susceptibility to *Candida albicans* infection following radio mucositis: the relevance of in vitro 3D tongue organoids

🕒 14:50–15:10

Mirjana Rajilić Stojanović — Serbia — Probiotics and phytochemicals in gut ecosystem recovery

🕒 15:15–15:35

Milena Radunović — Serbia — *Candida* in the oral cavity: From commensal to opportunistic pathogen

🕒 15:35–15:45

Katarina Jončić Savić — Serbia (offered talk) — A translational strategy to enhance antifungal therapy for oral candidiasis using standardized Maqui berry extract: evidence from preclinical and clinical studies

- 🕒 15:45–15:55 **Ana Bačić** — Serbia (offered talk) — Differential gut microbiota responses to multi-strain probiotic supplementation in long COVID and convalescent individuals
- 🕒 15:55–16:05 **Alexander Osmolovskiy** — Russia (offered talk) — Key specific properties and effect on target proteins of bi-functional hemostatically active extracellular proteinase of *Aspergillus ochraceus*

🕒 16:30–18:15 **GREAT HALL**
IN-DEPTH SYMPOSIA SESSION 6: "THE INTERACTION LANDSCAPES OF ANTIBIOTIC TREATMENT" INNOVATIVE BIOTECH & INDUSTRIAL APPLICATIONS
Computational Genomics, Omics, Databases, Bioinformatics, Artificial Intelligence, and Modeling
Chairs: Djordje Bajić & Jeronimo Rodriguez-Beltran

- 🕒 16:30–16:50 **Jeronimo Rodriguez-Beltran** — Spain — Identification of pervasive plasmid–chromosome interactions to combat antibiotic resistance
- 🕒 16:55–17:15 **Alejandro Couce** — Spain — Mutational biases and epistasis complicate collateral sensitivity predictions
- 🕒 17:20–17:40 **Djordje Bajić** — The Netherlands — Emergent interactions shape antibiotic efficacy landscapes
- 🕒 17:45–18:05 **Viktória Lázár** — Hungary — Context-dependent pathogen virulence under microbial and pharmacological perturbations

🕒 16:30–18:15 **MEDIUM HALL 'AMERIKANA'**
IN-DEPTH SYMPOSIA SESSION 7: FRONTIERS HEALTH & CLINICAL INNOVATIONS
Basic Research of Pathogens in Humans/Host-Pathogen Interactions and Microbial Pathogenesis in Human and Animal Systems/Surveillance of Antimicrobial Resistance: Molecular Typing and Epidemiology
Chairs: Livia Leoni & Giordano Rampioni

- 🕒 16:30–16:50 **Jose Alexander** — The USA (online lecture) — Closing the gap of the clinical microbiology lab with next-generation sequencing
- 🕒 16:50–17:10 **Livia Leoni** — Italy — The evolving landscape of *Pseudomonas aeruginosa* virulence: Progress and open questions
- 🕒 17:10–17:30 **Giordano Rampioni** — Italy — Inside the host metabolic niche: From pathogen nutrition to therapeutic opportunities
- 🕒 17:30–17:50 **Ina Gajić & Miloš Jovičević** — Serbia — Carbapenem-resistant *Klebsiella pneumoniae* in healthcare settings: Genomic characterization and susceptibility to last-resort agents
- 🕒 17:50–18:00 **Katarina Šapić** — Serbia (offered talk) — The KL130 capsule balances complement resistance and adhesion in a mucoid clinical isolate of *Acinetobacter baumannii* 5112H

🕒 16:30–18:15 **CLUB DOB HALL**
IN-DEPTH SYMPOSIA SESSION 8: ENVIRONMENTAL INNOVATIONS & SUSTAINABLE SOLUTIONS
Ecology & Evolution of Host-Associated Microorganisms/Agricultural Systems Microbiology and Phytobiome Management
Chairs: Vittoria Catata & Sheridan L. Woo

- 🕒 16:30–16:50 **Vittoria Catara** — Italy — Vascular dwellers in tree hosts, insights from conventional and molecular-based analyses in citrus ‘mal secco’ disease
- 🕒 16:55–17:15 **Sheridan L. Woo** — Italy — What’s App? Using plant-beneficial microbe interactions for eco-sustainable pathogen-pest crop protection
- 🕒 17:20–17:40 **Kenji Yokota** — Japan — *Bacillus* cyclic lipopeptides; their functions in biological control against plant diseases
- 🕒 17:45–17:55 **Giulio Dimaria** — Italy (offered talk) — Integrating genomic and microbiome analyses to investigate emerging soft rot of greenhouse tomato caused by *Pectobacterium* spp.
- 🕒 18:00–18:10 **Marija Pavlović** — Serbia (offered talk) — Validation of real-time PCR for the detection of *blaTEM* antibiotic resistance gene in agricultural soil

🕒 18:00–19:30 **Poster Viewing – Afternoon Session with the tasting of Serbian beverages**

🕒 19:30–21:30 **Belgrade Fortress Sightseeing or River Cruising (optional)**

Day 3

Friday, 12 June 2026

Belgrade Youth Center (Dom omladine Beograda) · Makedonska 22

🕒 08:00–09:00 **REGISTRATION of Participants**

🕒 09:00–10:45 **GREAT HALL**
**INTEGRATED PLENARY SESSION 4:
 INNOVATIVE BIOTECH & INDUSTRIAL APPLICATIONS**
Synthetic Biology, Molecular Microbiology & Bioinformatics
Chairs: *Ines Mandić Mulec & Ákos T. Kovács*

🕒 09:00–09:30 **Ákos T. Kovács** — The Netherlands — Understanding *Bacillus* ecology towards composing a symphony for the rhizosphere

🕒 09:35–10:05 **Edoardo Pasolli** — Italy — Strain-resolved metagenomics across human and food microbiomes

🕒 10:10–10:40 **Ines Mandić Mulec** — Slovenia — Lessons from microbial interactions for probiotic applications

🕒 09:00–10:45 **MEDIUM HALL ‘AMERIKANA’**
**INTEGRATED PLENARY SESSION 5:
 FRONTIERS HEALTH & CLINICAL INNOVATIONS**
Microbiome Breakthrough
Chairs: *Nedjeljko Karabasil & Urška Jamnikar Ciglencečki*

🕒 09:00–09:30 **Andreja Rajković** — Belgium — From genome to gut: Understanding *Bacillus cereus* virulence through toxins, adaptation, and host response

- 🕒 09:35–10:05 **Aleksandra Martinović** — Montenegro — Food is information: How the microbiome decodes nutrition?
- 🕒 10:10–10:40 **Urška Jamnikar Ciglencečki** — Slovenia — From farm to fork: Emerging viral threats to food safety

🕒 10:45–11:30  **Coffee Break & Sponsor Exhibition Visit**

🕒 10:45–11:25 **GREAT HALL
FLASH TALKS SESSION**
Chair: Aleksandra Jelušić

- 🕒 10:45–10:50 **Ana Samardžić** — Serbia — Pollution-associated shifts in the microbiome of *Chironomus riparius* larvae revealed by shotgun metagenomics
- 🕒 10:50–10:55 **Kristina Kokotović** — Serbia — Diversity of microbial communities in diesel-contaminated soils under phytoremediation: A plot-scale experiment
- 🕒 10:55–11:00 **Magdalena Knežević** — Serbia — *Bacillus velezensis* enhances nitrogen content and stress resilience in wheat
- 🕒 11:00–11:05 **Roopa Patel** — India — Comparative multi-response optimization and economic evaluation of microbial consortium-based integrated nutrient management in cherry tomato and broccoli
- 🕒 11:05–11:10 **Ana Nikolovska** — North Macedonia — Isolation and technological characterization of acetic acid bacteria from rose hip for enhanced vinegar production
- 🕒 11:10–11:15 **Nikola Bajčetić** — Serbia — From brewing by-product to probiotic carrier: Characterization of plasmolyzed spent yeast cells
- 🕒 11:15–11:20 **Kristina Atlagić** — Serbia — The antagonistic effect of native *Trichoderma* species against fungal plant pathogen *Fusarium graminearum*
- 🕒 11:20–11:25 **Allwin Mabes Raj Antony Francis Paulraj** — Slovenia — Kinetic arrest: A new concept for developing highly specific sensors

🕒 11:30–13:00 **GREAT HALL
IN-DEPTH SYMPOSIA SESSION 9:
ENVIRONMENTAL INNOVATIONS
& SUSTAINABLE SOLUTIONS**
*Wastewater & Non-Clinical Microbiology:
AMR Detection and Monitoring/Freshwater,
Terrestrial & Extreme Environments Microbiology*
Chairs: Jessica Subirats & Gergely Maróti

- 🕒 11:30–11:50 **Jessica Subirats** — Spain — Which antibiotic resistance genes should we monitor in reclaimed water? A framework based on full-scale WWTP metagenomics
- 🕒 11:55–12:15 **Gergely Maróti** — Hungary — Functional resistomes within complex microbial communities in municipal wastewater treatment plants
- 🕒 12:20–12:40 **Prateek Shetty** — Hungary — Chlamy-leon: How cultivation strategies induce alternative algal states
- 🕒 12:45–12:55 **Olukunle Silas Fagbenro** — Nigeria (offered talk) — Integrated microbiological, genotoxic and oxidative stress assessment of contrasting lentic and lotic freshwater systems in a tropical university campus

🕒 11:30–13:00

MEDIUM HALL 'AMERIKANA'
IN-DEPTH SYMPOSIA SESSION 10:
FRONTIERS HEALTH & CLINICAL INNOVATIONS

Phage Therapy and Biomarkers

Chairs: Goran Vukotić & Nikita Zreløvs

🕒 11:30–11:50

Goran Vukotić — Serbia — Spreading the word - Phage therapy, yesterday, today, and tomorrow

🕒 11:55–12:15

Hugo Alexandre Mendes de Oliveira — Portugal — Advancing personalized phage therapy in Portugal: Clinical implementation and rational phage cocktail development

🕒 12:20–12:40

Nikita Zreløvs — Latvia — Fundamental and applied *Caudoviricetes* bacteriophage research in Latvia

🕒 12:45–12:55

Mina Obradović — Serbia (offered talk) — Functional validation of a recombinant capsule depolymerase from a non-sequenceable *Acinetobacter baumannii* bacteriophage ISTD

🕒 11:30–13:00

CLUB DOB HALL
IN-DEPTH SYMPOSIA SESSION 11:
FRONTIERS HEALTH
& CLINICAL INNOVATIONS

Vaccines and Immunization Science

Chairs: Nataša Opavski & Alejandro Cabezas-Cruz

🕒 11:30–11:50

Nataša Opavski — Serbia — Impact of PCV introduction on the evolution of pediatric pneumococcal serotypes and clones

🕒 11:55–12:15

Aleksandra Knežević — Serbia — Cervical HPV type-specific prevalence in Serbia: vaccine-covered vs. non-vaccine-covered types

🕒 12:20–12:40

Alejandro Cabezas-Cruz — France — Antimicrobiota vaccines: Reprogramming vector microbiomes to block pathogen transmission

🕒 12:45–12:55

Miloš Petrović — Serbia (offered talk) — Optimization of UTR sequences for mRNA vaccines

🕒 13:00–14:00

LUNCH BREAK

🕒 14:00–15:30

MEDIUM HALL 'AMERIKANA'
PANEL DISCUSSION 3:
"WHERE INTENSIVE MEDICINE AND ENDOSCOPY
MEETS CLINICAL MICROBIOLOGY"
FRONTIERS HEALTH & CLINICAL INNOVATIONS

Infection Prevention and Control, including Healthcare – Global Health/Dilemmas and Controversy

Moderator: Ivan Ranković

Ivan Ranković — Serbia — Liver failure intensive care unit – points of clinical microbiology

Martina Jug — Serbia — Acute liver failure in chronic hepatitis C: Where does aflc end and acfl begin? An ICU perspective

Vladimir Milivojević — Serbia — Microbiology aspects of GI endoscopy: Are we setting the bar too low or too high?

🕒 14:00–15:30 **GREAT HALL**
**WORKSHOP SESSION: “FROM MICROBIOMES TO BIOTECHNOLOGY:
NEW FRONTIERS IN SUSTAINABLE CROP PRODUCTION AND
PROTECTION” (PART I)**
**ENVIRONMENTAL INNOVATIONS & SUSTAINABLE SOLUTIONS/
INNOVATIVE BIOTECH & INDUSTRIAL APPLICATIONS**
*Agricultural Systems Microbiology and Phytobiome Management/Biocontrol Agents
& Biofertilizers: From Lab to Market*
Chairs: *Ivica Dimkić & Nejc Stopnisek*

🕒 14:00–14:25 **Nejc Stopnisek** — Slovenia — Rewilding the tomato holobiont: Microbiome assembly across domestication, ecology, and host genetics

🕒 14:30–14:45 **Ivica Dimkić** — Serbia — TERRA_MADRE: An overview of reshaping soil microbiota in Serbia

🕒 14:45–15:00 **Ken-ichi Yoshida** — Japan — *Bacillus velezensis* S141: a soybean growth-promoting rhizosphere bacterium

🕒 15:00–15:15 **Giuliano Degrassi** — Italy — Production and application of *Bacillus thuringiensis*-based products for sustainable control of insect pests

🕒 15:15–15:25 **Keming Yang** — China (offered talk) — Probiotic phage steering of disease suppressive rhizosphere microbiomes

🕒 14:00–15:30 **CLUB DOB HALL**
**IN-DEPTH SYMPOSIA SESSION 12:
FRONTIERS HEALTH & CLINICAL INNOVATIONS**
Antimicrobials & Resistance/Miscellaneous
Chairs: *Biljana Nikolić & Alexandra Nascutiu*

🕒 14:00–14:20 **Biljana Nikolić** — Serbia — Natural products and their nano-derivatives as biofilm-combating agents

🕒 14:25–14:45 **Alexandra Nascutiu** — Romania — Biobanking and public health strategies

🕒 14:50–15:10 **Aleksandra Šmitran** — Bosnia & Herzegovina — Comparative analysis of the gut microbiome composition between children with atopic dermatitis and their healthy siblings

🕒 15:10–15:20 **Ljiljana Božić** — Bosnia & Herzegovina (offered talk) — Detection of bacterial zoonotic pathogens in tonsil tissues from children and pets using PCR

🕒 15:30–16:15 **Sponsor Exhibition Visit**

🕒 16:15–17:15 **GREAT HALL**
**PANEL DISCUSSION 4: “WHEN VIRUSES TURN MALIGNANT:
PATHWAYS TO CANCER”**
FRONTIERS HEALTH & CLINICAL INNOVATIONS
Clinical Virology
Moderator: *Ana Banko*

Ana Banko — Serbia — Viral crosstalk in cancer: The oncogenic interplay between EBV and HPV across multiple tumor sites

Danijela Miljanović — Serbia — The oncogenic pathway of HPV: From infection to cancer

Anđa Ćirković — Serbia — From association to causation: Evaluating levels of evidence linking EBV and HPV to human diseases

🕒 16:15–18:15 **MEDIUM HALL 'AMERIKANA'**
WORKSHOP SESSION: "FROM MICROBIOMES TO BIOTECHNOLOGY: NEW FRONTIERS IN SUSTAINABLE CROP PRODUCTION AND PROTECTION" (PART II)
ENVIRONMENTAL INNOVATIONS & SUSTAINABLE SOLUTIONS / INNOVATIVE BIOTECH & INDUSTRIAL APPLICATIONS
Agricultural Systems Microbiology and Phytobiome Management/Biocontrol Agents & Biofertilizers: From Lab to Market
Chairs: *Cristina Bez & Vlad Stoian*

- 🕒 16:15–16:35 **Amitava Rakshit** — India (online lecture) — From stress moderation to sustainability: Biopriming mediation in crop species
- 🕒 16:35–16:55 **Cristina Bez** — Italy — Beyond canonical quorum sensing: the hidden chemistry of LuxR solos in plant microbiomes
- 🕒 16:55–17:15 **Vlad Stoian** — Romania — Microbial fusion for a sustainable future: Practical scenarios for agriculture and environmental protection in Romania
- 🕒 17:15–17:35 **Pramod Kumar** — India — Microbiome-driven soil fertility and crop physiological performance in multilayer fruit-based land use systems under natural farming
- 🕒 17:35–17:50 **Aleksandra Jelušić** — Serbia — *Bacillus velezensis*: A natural shield against black rot of cabbage cv. Futoški
- 🕒 17:50–18:05 **Milan Brankov** — Serbia — Implications of indigenous arbuscular mycorrhizal fungi as an agroecological tool in weed management

🕒 19:00–23:00  **Unforgettable night with live music in Panorama Hall of the Palace Hotel!**

Join us for engaging conversations and a celebration of outstanding Congress achievements

Day 4

📅 **Saturday, 13 June 2026**

Faculty of Civil Engineering · Bulevar kralja Aleksandra 73, Belgrade

🕒 10:00–15:00  **Sponsors Exhibition**

🕒 10:00–11:00 **CEREMONIAL HALL 140 OF THE FACULTY OF CIVIL ENGINEERING**
KEYNOTE SESSION 2: FRONTIERS HEALTH & CLINICAL INNOVATIONS
Microbiome Breakthrough
Introductory note: *Dušan Kekić*


🕒 10:00–10:45 **Irena Paštar** — The USA — Decoding the dialogue between microbes and skin: Pathways to precision therapeutics


 11:00–11:30  **Coffee Break**


 11:30–13:15 **CEREMONIAL HALL 140 OF THE FACULTY OF CIVIL ENGINEERING
INTEGRATED PLENARY SESSION 6:
INNOVATIVE BIOTECH & INDUSTRIAL APPLICATIONS**

*Industrial & Environmental Biotechnology/Synthetic Biology,
Molecular Microbiology & Bioinformatics*

Chairs: Marc Ongena & Ken-ichi Yoshida

 11:30–12:00 **Marc Ongena** — Belgium — Plant immune activation by bacterial lipopeptides


 12:05–12:35 **Ken-ichi Yoshida** — Japan — Atypical catabolite repression of *Geobacillus kaustophilus* *iol* genes in the presence of ribose


 12:40–13:10 **Jianwei Chen** — China — Systematic mining of bioactive enzymes and peptides from marine microbiomes


 11:30–13:15 **MEDIUM HALL 113 OF THE FACULTY OF CIVIL ENGINEERING
IN-DEPTH SYMPOSIA SESSION 13:
FRONTIERS HEALTH & CLINICAL INNOVATIONS**


*Clinical & Public Health Microbiology/Diagnostics: Bacteriology,
Public Health Microbiology, Veterinary Microbiology, and Parasitology*

Chairs: Dušan Kekić & Vladimir Milivojević

 11:30–11:50 **Vladimir Milivojević** — Serbia — Escalating *Helicobacter pylori* antibiotic resistance: Insights from PCR testing


 11:55–12:15 **Simona Grad** — Romania — *Helicobacter pylori* in Romania


 12:20–12:40 **Dušan Kekić** — Serbia — Challenges in current diagnostic tests for *Helicobacter pylori* in Serbia


 13:30–15:15 **CEREMONIAL HALL 140 OF THE FACULTY OF CIVIL ENGINEERING
IN-DEPTH SYMPOSIA SESSION 14:
"EMERGING MICROFUNGI:
PATHOGENESIS, RESISTANCE AND TREATMENT"
FRONTIERS HEALTH & CLINICAL INNOVATIONS**


*Clinical & Public Health Microbiology/ Host-Pathogen Interactions and Microbial
Pathogenesis in Human and Animal Systems*


Chairs: Marina Soković & Aleksandra Barać

 13:30–13:50 **Sameh Soliman** — The UAE (online lecture) — Metabo-phenotypic precision model for *C. auris* infection and target therapy

 13:55–14:15 **Aleksandra Barać** — Serbia — The role of the lung microbiota in the development of pulmonary Aspergillosis: From symbiosis to infection

 14:20–14:40 **Marija Ivanov** — Serbia — Impact of natural products on virulence and antifungal resistance of *Candida albicans*

 14:45–14:55 **Tamara Carević Milićević** — Serbia (offered talk) — Targeting *Candida* infections: Antimicrobial activity of selected polyphenols

 15:00–15:10 **Marina Kostić** — Serbia (offered talk) — Natural products targeting microfungus melanin and virulence

🕒 13:30–15:15

**MEDIUM HALL 113 OF THE FACULTY OF CIVIL ENGINEERING
IN-DEPTH SYMPOSIA SESSION 15: INNOVATIVE BIOTECH
& INDUSTRIAL APPLICATIONS**

Computational Genomics, Omics, Databases, Bioinformatics, Artificial Intelligence, and Modeling

Chairs: João Pedro Saraiva & Alfonso Esposito

🕒 13:30–13:50

Alfonso Esposito — Italy — Integrating bioinformatics and experimental validation: Lessons from an *in vitro* evolution study of colistin resistance in *Pseudomonas aeruginosa*

🕒 13:55–14:15

João Pedro Saraiva — Germany — Whole Genome Shotgun-assisted risk assessment of biocontrols

🕒 14:20–14:40

Daniel Julian — Spain — SequentiaHub: A cloud-native ecosystem for automated and reproducible multi-omics bioinformatics

🕒 14:45–14:55

Biljana Tanasković — Serbia (offered talk) — Analysis of the precision of bioinformatic protocols for processing 16S rRNA sequences

🕒 15:00–15:10

Stefan Hristov — Germany (offered talk) — ForceYield2: Validating AI-assisted protein design with *in vivo* selection

🕒 15:30

**CEREMONIAL HALL 140 OF THE FACULTY OF CIVIL ENGINEERING
CLOSING DISCUSSION BY ORGANIZERS & FEMS DELEGATES**

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