

FINAL PROGRAM

Annual International Conference on
MICROBIOLOGY AND INFECTIOUS DISEASES
&

Annual International Conference on
BIOMEDICAL ENGINEERING AND SYSTEMS

September 24-25, 2026 | Lisbon, Portugal



Synergia Summits Private Limited

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- 09:00-09:45 Registrations and Badge Pickup
09:45-10:00 Opening Ceremony and Welcome Remarks

Plenary Talks

Moderator: **Artur Bartosik**, Kielce University of Technology, Poland

- 10:00-10:40 **Junji Yodoi**, Kyoto University, Japan
Title: 50 Years ATL Adult T cell Leukemia Research;
Retroviral Disease leading to Redox Control of Allergy Inflammation via TRX TBP2 System
- 10:40-11:20 **Vilcinskas Andreas**, Fraunhofer Institute for Molecular Biology and Applied Ecology, Germany
Title: Drugs from Bugs: Antibiotic Discovery in Insects

11:20-11:40 Networking and Coffee Break

- 11:40-12:20 **Friedrich Götz**, University Tuebingen, Germany
Title: Neurochemical-Producing Human Microbiota and Their Impact on Host Neuroreceptors
- 12:20-13:00 **Martin Schwemmle**, University freiburg, Germany
Title: Controlling zoonotic influenza A virus infections: lessons learned from an H7N9 case-control study

13:00-14:00 Group Photograph followed by Lunch

- 14:00-14:40 **J.-C. Olivo-Marin**, Bioimage Analysis Unit, Institut Pasteur, France
Title: Bioimage analysis: Methods, tools and applications
- 14:40-15:20 **Nowotny Norbert**, University of Veterinary Medicine Vienna, Austria
Title: Emerging virus infections of pandemic potential
- 15:20-16:00 **Olivier Lortholary**, Université de Paris, France
Title: New insights into cryptococcosis

16:00-16:20 Networking and Coffee Break

Keynote Talks

Moderator: **To be confirmed.**

- 16:20-16:50 **Sepideh Pakpour**, University of British Columbia, Canada
Title: Can the Microbiome Defeat Clostridioides difficile?
- 16:50-17:20 **Zhenbo Xu**, South China University of Technology, China
Title: Biofilm formation of Staphylococcus aureus under low concentration of antibiotics

17:20-18:30

POSTER PRESENTATIONS

- P001 **Jan Bobek**, Institute of Medical Microbiology, Charles University, Czechia
Title: Human-Associated Streptomyces as a Potential Source of Antifungal Metabolites
- P002 **Kristina Rybecka Knopf**, Institute of Medical Microbiology, Charles University, Czechia
Title: Genomic and Phenotypic Signatures of Host Adaptation in Human-Associated Streptomyces
- P003 **Katerina Petrickova**, Institute of Medical Microbiology, Charles University, Czechia
Title: Environmental microbiology and its impact on infectious diseases
- P004 **Misaki Ogawa**, Tokai University, Japan
Title: Effect of Clamp Configuration on Strain Distribution in Cross-External Fixation Using Stereo Digital Image Correlation
- P005 **Yuna Murayama**, Tokai University, Japan
Title: Strain Measurement Near The Pin Insertion Site Using Stereo Digital Image Correlation In An External Fixation Model
- P006 **Ling Xia**, Zhejiang University, China
Title: Cine Cardiac MRI Segmentation via Residual Attention Mechanisms
- P007 **Dongdong Deng**, Dalian University of Technology, China
Title: To be confirmed.
- P008 **Mgr. Laura Slabejová**, Pavol Jozef Šafárik University in Košice
Title: Surface Characterization of Porous Ti64ELI Implants Prepared by SLM
- P009 **Jana Demeterová**, Pavol Jozef Šafárik University, Slovakia
Title: A Voltammetric Approach for Colistimethate Sodium Detection Using an Unmodified Screen-Printed Carbon Electrode
- P010 **Andrée Emmanuelle Sika-Kadji**, University of Nangui Abrogoua, Côte d'Ivoire
Title: Antimicrobial potential of Dacryodes edulis (Safou) extracts and essential oils as a natural alternative against multidrug-resistant human pathogens in Côte d'Ivoire

END OF DAY-01

Keynote Talks

Moderator: **Kristina Rybecka Knopf**, Charles University, Czechia

- 10:00-10:30 **Yasuhiko Tabata**, Kyoto University, Japan
Title: Regenerative Biomaterial to Realize Advanced Medical Therapy
- 10:30-11:00 **Tetsuya Shimamura**, Saitama University, Japan
Title: Brain Signals Useful for Emotion Recognition
- 11:00-11:20 Networking and Coffee Break
- 11:20-11:50 **Kunio Matsumoto**, Kanazawa University, Japan
Title: Creation of High-Performance Biologics Replaceable to Growth Factors
- 11:50-12:20 **Savidge Tor**, Baylor College of Medicine, Texas, USA
Title: Levering Human Microbiomes in Infectious Disease Prediction and Therapy
- 12:20-12:50 **Ivana Šišoláková**, Pavol Jozef Šafárik University in Košice, Slovakia
Title: Smart Non-Enzymatic Electrochemical Sensors for Rapid Point-of-Care Diagnostics
- 12:50-13:20 **Shangming Zhou**, University of Plymouth, UK
Title: Transforming Bladder Cancer Screening: Early Detection and Risk Stratification through Supervised Term Weighting and Particle Swarm Optimization Techniques
- 12:50-13:20 **Martin Kožár**, Pavol Jozef Šafárik University in Košice, Slovakia
Title: The Application of Biomaterials in Veterinary Medicine

13:20-14:20 Networking and Coffee Break

Invited Talks

Moderator: **Ivana Šišoláková**, Pavol Jozef Šafárik University in Košice, Slovakia

- 14:20-14:45 **Luis Gerardo Padrón Cabrera**, University of Zaragoza, Spain
Title: Effect of Medializing Calcaneal Osteotomy on Soft tissues Supporting the Plantar arch: a computational study
- 14:45-15:10 **Artur Bartosik**, Kielce University of Technology, Poland
Title: Blood flow - analogy with chosen slurries
- 14:45-15:10 **Khaled Rajeh**, International Malaysian University (IMU) - Ibb Branch, Yemen
Title: Evaluation of the Synergistic Antibacterial Potential of Punica granatum Peel Extracts Combined with Yemeni Sidr Honey Against Wound and Urogenital Pathogenic Isolates
- 14:45-15:10 **Cristina Silva Pereira**, ITQB NOVA, Portugal
Title: The discovery of a novel bacterial species living within the human pathogen *Aspergillus fumigatus*

15:10-15:30 **CONFERENCE HIGHLIGHTS & CLOSING CEREMONY**