

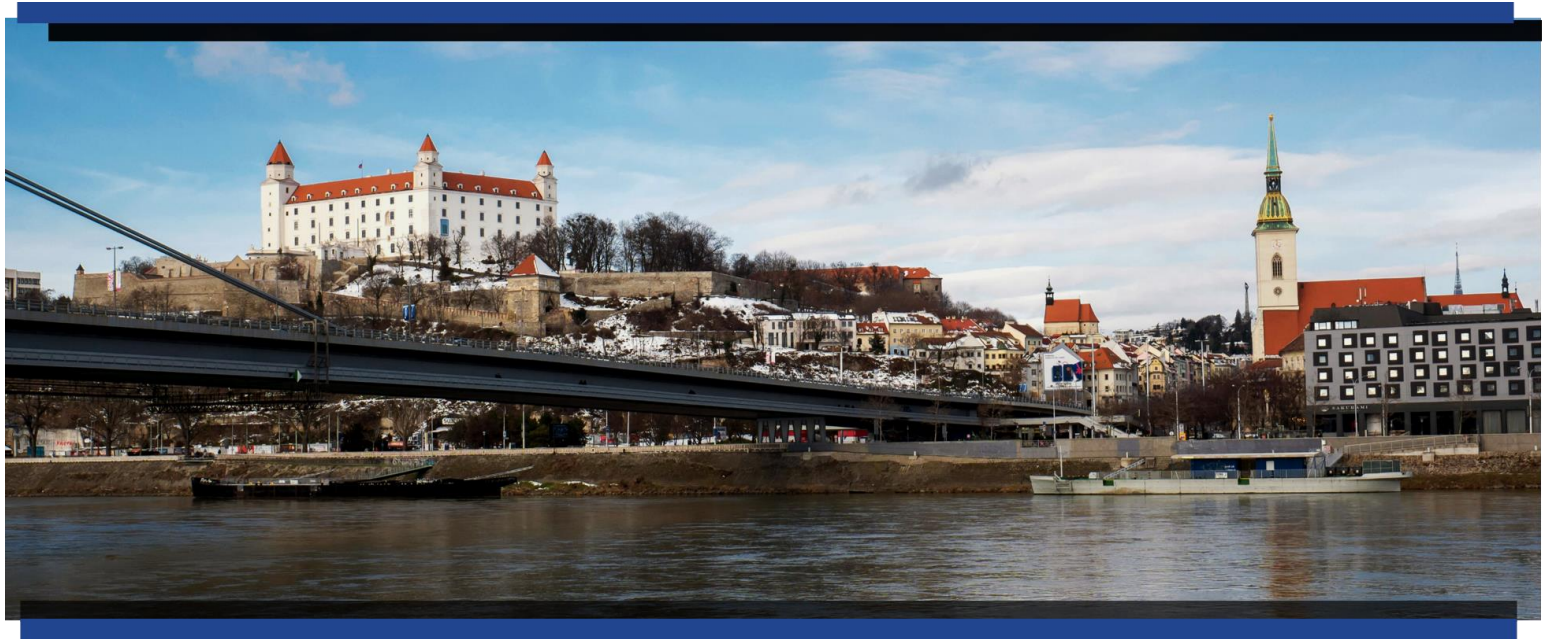


CEMBO .EU
COMBAT AND EVALUATION OF MIXED BIOFILMS

Hot Topics in Microbiology

International Conference for Young Scientists

7. – 10.12. 2022, Bratislava



Scientific Program

Organized by:



COMENIUS
UNIVERSITY
BRATISLAVA



Amsterdam UMC
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PROGRAM

Wednesday, 7 th of December	
14:00	Registration
16:00 – 16:15	Welcome and opening
16:15 – 17:15	Keynote lectures (chaired by Helena Bujdáková)
16:15	Gopala Krishna Mannala (DE) <i>Galleria mellonella as an alternative in vivo model to study implant-associated infections</i>
16:45	Petra Pjevac (AT) <i>What's new with the ATCGs – the newest developments in amplicon and (meta)genome sequencing approaches in microbiology</i>
17:15– 18:15	Session 1 (chaired by Petra Pjevac)
17:15	Gizem Babuccu (NL) <i>Development of diagnostic and antimicrobial triggered release systems for wound dressings</i>
17:30	Matúš Štefánek (SK) <i>Photodynamic inactivation effectively eradicates Candida albicans and Candida auris biofilms despite its interference with efflux and stress response genes</i>
17:45	Goodness Ogechi Osondu-Chuka (AT) <i>P. aeruginosa grown in printable cystic fibrosis model biofilms suitable for high-throughput screening of antibiotics interactions</i>
18:00	Ana Barbosa (PT) <i>Development of a multiplex mRNA PNA-FISH method to assess Legionella pneumophila morphological state within multispecies biofilms in water systems</i>
18:30	Dinner at the hotel

<i>Thursday, 8th of December</i>	
8:30 – 9:30	Keynote lectures (chaired by Martijn Riool)
8:30	Maria Luísa Jordão (PT) <i>Biofilms, infection and antimicrobials resistance</i>
9:00	Viorica Patrulea (UK) <i>Working in synergy to win the battle: a lesson learned from antimicrobial agents</i>
9:30 – 10:30	Session 2 (chaired by Petra Olejníková)
9:30	Petra Olejníková (SK) <i>It is important to think on adaptive response of fungal cells by enhancing the antifungal activity</i>
9:45	Daniel Eliaš (SK) <i>Role of ERG6 gene in Candida glabrata antifungal resistance</i>
10:00	Ján Víglaš (SK) <i>Antifungal compounds cause cell surface remodelling in Neurospora crassa</i>
10:15	Ivana Segéňová (SK) <i>Antimicrobial activity of silver complexes</i>
10:30 – 11:00	Coffee & tea break
11:00 – 12:30	Session 3 (chaired by Gopala Krishna Mannala)
11:00	Martijn Riool (NL) <i>Novel synthetic antimicrobial and anti-biofilm peptides (SAAPs) - containing coatings to prevent biomaterial-associated infection</i>
11:25	Filipa Campos (PT) <i>Antimicrobial peptide-grafted PLGA-PEG nanoparticles to fight bacterial wound infections</i>
11:40	Nikitha Vavilthota (NL) <i>Rationally designed antimicrobial peptides show antimicrobial activity against Gram-negative and Gram-positive bacteria in a 3D human skin equivalent model</i>
11:55	Cláudia Monteiro (PT) <i>Unravelling the mechanism of action of antimicrobial peptides conjugated to nanoparticles</i>
12:10	Klára Cverenkárová (SK) <i>Microplastics and their influence on the development of antibiotic resistance</i>
12:30 – 14:00	Lunch at the hotel

14:00 – 15:30	Session 4 (chaired by Maria Luísa Jordão)
14:00	Katarína Šoltys (SK) <i>Gut microbiome and biofilm associated microorganisms in health and disease.</i>
14:25	Michal Andrežál (SK) <i>Whole genome analysis of bacteria from clinical samples and food industry</i>
14:40	Zhile Xiong (DE) <i>Combination of molecular analysis and imaging of the microbiome: visualization and spatial distribution of microorganisms in infectious disease</i>
14:55	Samuel Kendra (SK) <i>Farnesol down-regulates the expression of genes involved in resistance to fluconazole in <i>Candida auris</i></i>
15:10	Jakub Ondrej Mihale (SK) <i>Setting treatment by using hepatitis C virus genotyping for a narrow group of prison inmates</i>
15:30 – 16:00	Coffee & tea break
16:00 – 17:30	Session 5 (chaired by Juraj Bujdák)
16:00	Dušan Galusek (SK) <i>FunGlass centre: where research of glass is fun</i>
16:30	Deeksha Rajkumar (NL) <i>Bioactive glass S53P4 as a non-antibiotic antimicrobial strategy to treat biomaterial associated infections</i>
16:45	Marek Pribus (SK) <i>Preparation of antimicrobial polyurethane films</i>
17:00	Katarína Bilská (SK) <i>Eradication of staphylococcal biofilms manifesting up-regulation of the <i>NorA</i> gene on newly designed photoactive material</i>
17:15 – 18:15	Poster Session
18:30	Dinner at the hotel

<i>Friday, 9th of December</i>	
8:30 – 9:30	Keynote lectures (chaired by Annette Moter)
8:30	Holger Daims (AT) <i>Chemical imaging tools for studying in situ microbial physiology</i>
9:00	Soňa Kucharíková (SK) <i>Efficiency of anidulafungin and tigecycline against Candida albicans – Staphylococcus aureus polymicrobial biofilms</i>
9:30 – 10:30	Session 6 (chaired by Hana Drahovská)
9:30	Aneta Bugalová (SK) <i>Analysis of Streptococcus agalactiae prophages</i>
9:45	Marek Straka (SK) <i>Efficiency of phage preparation STAFAL® to carrier and clinical strains of Staphylococcus aureus</i>
10:00	Dominika Kleknerová (CZ) <i>Testing of antimicrobial effect of hydrogel matrix based on Gum Karaya resin supplemented by the phage preparation on methicillin-resistant Staphylococcus aureus strains on animal model</i>
10:15	Kristýna Brodíková (CZ) <i>Prevalence and characterization of Staphylococcus aureus in medical students during their studies</i>
10:30 – 11:00	Coffee & tea break
11:00 – 12:30	Session 7 (chaired by Soňa Kucharíková)
11:00	Sebastian Zaat (NL) <i>Persisters and intracellular survivors: As if biofilms were not enough trouble</i>
11:25	Jarmila Czucz Varga (SK) <i>Optimization of photodynamic inactivation on biofilms formed by Candida albicans and Staphylococcus aureus</i>
11:40	Tomislav Ivanković (HR) <i>Biofilm mediated migration across the non-nutritive solid surface</i>
11:55	Bruna Costa (PT) <i>Microfluidic fabrication of Dhvar5-chitosan nanogels: A way to fight orthopedic device-related infections</i>
12:10	Monika Kraľulcová (SK) <i>Occurrence of resistance coliform bacteria, enterococci and their resistant genes in surface water and sediment originating from Slovakia</i>
12:30 – 14:00	Lunch at the hotel

14:00 – 15:30	Session 8 (chaired by Sebastian Zaat)
14:00	Annette Moter (DE) <i>How dead is dead in biofilm-associated infections? Investigation by fluorescence in situ hybridization (FISH)</i>
14:25	Laure van Hofwegen (NL) <i>The antimicrobial activity of Graphene Quantum Dots</i>
14:40	Kurosh Sarbandi (DE) <i>How to study biofilms of fastidious organisms?</i>
14:55	Kamila Melnikov (SK) <i>MRSA infection in elderly patients from nursing homes</i>
15:10	Leona Hofmeisterová (CZ) <i>In vitro activity of avocado oil extracts against planktonic cells and biofilm formation of Arcobacter-like species</i>
15:30 – 16:00	Coffee & tea break
16:30	Social event and dinner in the city
Saturday, 10th of December	
09:00 – 10:00	Round table of CEMBO Team and conference participants
10:15 – 10:30	Closing notes
10:30 – 12:30	Social event – Devín castle