

**„Workshop: From Biological Chemistry to Microbial Control“
10-12th June 2026 Hotel Sorea Trigan, Štrbské Pleso**

PROGRAM

Main Organizer:



In cooperation:





Local Organizing Committee:

prof. Helena Bujdáková, PhD.
assoc. Prof. Ing. Petra Olejníková, PhD.
MSc. Kristína van der Ploeg
Dr. Lucia Černáková, PhD.
Dr. Jaroslava Dekkerová, PhD.
MSc. Katarína Bilská, PhD.
Ing. Júlia Koreneková
MSc. Hanka Súlovská
MSc. Tomáš Walentín



Wednesday 10th of June

- 15:00 – 15:30 Registration
Coffee/Tea and Snack
- 15:30 – 15:40 **Welcome and workshop opening**
Helena Bujdáková
- 15:40 – 16:00 **Martina Labudová**
Molybdenum oxide nanoparticles functionalized to target lung and pancreatic tumor cells caused disruption of tumor microenvironment
- 16:00 – 16:15 **Petra Olejníková**
Contribution of oxidative stress to the mode of action of azole antifungal compounds in *Neurospora crassa*
- 16:15 – 16:30 **Ján Víglaš**
The circadian clock-controlled gene ccg-8 modulates stress tolerance in *Neurospora crassa*
- 16:30 – 16:45 **Tomáš Pagáč**
Early adaptive response of *Aspergillus fumigatus* to azole antifungal compounds: links between gene expression, growth behaviour and antioxidant capacity
- 16:45 – 17:00 **Hanka Súlovská**
Evaluation of synergistic interactions between simvastatin and antifungal agents against yeasts causing candidiasis
- 17:00 – 17:15 **Kateřina Holubová**
Comparative genomic analysis of *Escherichia coli* isolates from patients with colorectal neoplasia and healthy controls
- 17:15 – 17:30 **Saša Zahornacká**
Assessment of genotoxicity of *Escherichia coli* strains isolated from patients with colorectal neoplasia and healthy controls
- 17:30 – 17:45 **Lucia Droppová**
Colonization of the gastrointestinal tract by VRE in patients with *Clostridioides difficile* infection
- 17:45 – 18:00 **Juraj Bujdák**
Design of photoactive polymer–clay nanocomposites for biofilm control
- 18:00 – 18:15 **Peter Boháč**
Complex photoactive hybrid systems based on layered silicates and photosensitisers



18:15 – 18:30	Viktória Planetová Preparation of photoactive nanocomposites based on PDDA-modified saponite and phloxine B for anti-biofilm materials
<i>18:30 – 20:00</i>	<i>Dinner at the hotel</i>
20:00 – 21:00	Tomáš Pagáč Risks beyond the textbook: interactive teaching of topics that form today's students
Thursday 11th of June	
09:30 – 12:00	„Brainstorming“/Social activities
<i>12:00 – 14:00</i>	<i>Lunch break (optional)</i>
14:00 – 16:00	„Journal Club“
<i>16:00 – 16:30</i>	<i>Coffee/Tea and snack</i>
16:30 – 17:00	Project Discussion (Petra Olejníková, Nora Tóth Hervay)
17:00 – 17:20	Helena Bujdáková Towards nanotechnologies using bioactive particles/molecules in the fight against microbial biofilms
17:20 – 17:35	Katarína Bilská Newly synthesized BODIPY dyes as promising photosensitizers targeting <i>Staphylococcus aureus</i>
17:35 – 17:50	Larysa Bugyna Photodynamic anti-biofilm inactivation of <i>Staphylococcus aureus</i> using an eosin Y-based nanocomposite
17:50 – 18:20	Project Discussion (Helena Bujdáková, Juraj Bujdák)
<i>18:30</i>	<i>Dinner at the hotel</i>
Friday 12th of June	
09:00 – 09:15	Júlia Koreneková Comprehensive analysis of enterotoxigenicity, antimicrobial resistance and persistence of <i>Staphylococcus</i> spp. using combined analytical approaches
09:15 – 09:30	Monika Hrušková From the laboratory to safe foods: the impact of environmental factors on staphylococcal enterotoxin production



- 09:30 – 09:45** **Eva Nováková**
Study of the effects of bioactive substances based on glycosaminoglycans and sulfated heteropolysaccharides
- 09:45 – 10:00** **Tomáš Walentín**
Determination of the viability of *Klebsiella pneumoniae* and *Candida albicans* biofilms after antimicrobial photodynamic inactivation
- 10:00 – 10:15** **Jaroslava Dekkerová**
Photodynamic inactivation as an effective tool for biofilm eradication and quorum sensing regulation in mixed biofilms *Klebsiella pneumoniae* and *Candida albicans*
- 10:15 – 10:30** **Lucia Černáková**
Elimination of mixed biofilm formed by *Candida albicans* and *Enterococcus faecium*
- 10:30 – 10:40** **Official workshop closing**
Helena Bujdánková

The workshop was organized by the Czechoslovak Society for Microbiology in cooperation with the Department of Microbiology and Virology, Faculty of Natural Sciences, Comenius University in Bratislava and Institute of Biochemistry and Microbiology, Faculty of Chemical and Food Technology, Slovak University of Technology in Bratislava.

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