



Laboratory of Antibiotic Resistance and applications of Mass Spectrometry in Microbiology

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WORKSHOP ON MICROBIAL VIRULENCE – BIOFILMS & SERUM RESISTANCE ASSAYS

May 27, 2025 from 10:00 a.m. at the Microbiology dpt.

Dear Colleagues,

We are excited to invite you to our hands-on workshop on Microbial Virulence, focusing on cutting-edge techniques in biofilm analysis and serum killing assays! This workshop is designed for microbiologists, researchers, and students interested in pathogenicity mechanisms, host-pathogen interactions, and antimicrobial resistance.

Workshop Highlights

- **Biofilm Assays:** Learn standardized methods for quantifying and imaging bacterial biofilms (micro-titer plate assays, confocal microscopy).
- **Serum Resistance Testing:** Perform serum bactericidal assays to evaluate bacterial survival in host immune environments.
- **Case Studies & Data Interpretation:** Analyze real-world data on virulence factors in clinical isolates.
- **Interactive Sessions:** Troubleshooting tips, protocol optimization, and Q&A with experts.

Who Should Attend?

- Researchers studying bacterial pathogenesis
- Clinical microbiologists investigating antimicrobial resistance
- Graduate students and postdocs in microbiology/infectious diseases

Learning Outcomes

By the end of this workshop, participants will:

- Gain proficiency in biofilm quantification.
- Master serum killing assay protocols for virulence phenotyping.
- Network with peers and experts in microbial pathogenesis.

For inquiries, contact: Ibrahim Bitar (ibrahim.bitar@lfp.cuni.cz)

Let's unravel the secrets of microbial survival together!

Biomedical Center

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#MicrobialVirulence
#Biofilms
#SerumResistance
#MicrobiologyWorkshop

