

**Gediminas Drabavicius** – Dissecting Host-Pathogen Interactions Using CRISPR Screens: Insights into CDC Toxicity (Vilnius University, Medical Sciences Center, LT)

**Ján Matiašovic** – Current view on the taxonomy of *Streptococcus suis* (Veterinary Research Institute, CZ)

**Monika Zouharová** – Genomic Survey of *Streptococcus parasuis* Isolates from Clinical Cases in Cattle (Veterinary Research Institute, CZ)

**Petra Špidlová** – HU protein, inconspicuous player in *Francisella* virulence (Military Faculty of Medicine, UoD, CZ)

**Eva Velecká** – Bacterial HU protein as a regulator of host cell gene expression (Military Faculty of Medicine, UoD, CZ)

**Věra Vozandychová** – Host Macrophage Deubiquitinating Enzymes Exhibit Altered Activity Upon *Francisella tularensis* Infection (Military Faculty of Medicine, UoD, CZ)

**Andreja Zubković** – Long-Term Survival and Encystment Modulation of *Francisella novicida* in *Acanthamoeba castellanii* (University of Rijeka, Medical Faculty, HR)

**Lucie Balonová** – Role of glycoconjugates in the development of protective immunity against *Francisella tularensis* infection (Military Faculty of Medicine, UoD, CZ)

**Jana Pavlosková** – In Vitro Characterization of *Francisella tularensis* Infection and Early Immunopeptidomic Insights (Military Faculty of Medicine, UoD, CZ)

**Pavína Lásková** – Identification and Validation of CD4+ T Cell Epitopes of the Intracellular Pathogen *Francisella tularensis* (Military Faculty of Medicine, UoD, CZ)

**Paulína Mathéová** – Identification of SPI-2 T3SS effectors inhibiting T cell activation (Institute of Microbiology of CAS, CZ)

**Alona Dreus** – Role of flagella in translocation of *Salmonella* T3SS effectors (Institute of Microbiology of CAS, CZ)

**Milada Pospíšilová** – Bimodal Expression of Type 3 Secretion System 2 and its Effectors Enables Division of Labour (Institute of Microbiology of CAS, CZ)

**Jana Kamanová** – Functional specialization of the type III secretion systems (Institute of Microbiology of CAS, CZ)

**Ivan Rychlík** – Chickens as model for host-gut microbiota studies (Veterinary Research Institute, CZ)

**Jiří Volf – Mucus-associated microbiota in chicken caecum  
(Veterinary Research Institute, CZ)**

**Lenka Vlasatíková** – Influence of experimental probiotic mixtures on chicken cecal metabolome (Veterinary Research Institute, CZ)

**Jana Rájová** – Cecum and Bursa Proteomes in Day-Old Broilers (Veterinary Research Institute, CZ)

**Darina Čejková** – Temporal Dynamics of Plasmid-Associated Antibiotic Resistance in the Chicken Gut Microbiome (Brno University of Technology, CZ)

**Jana Schwarzerová** – Evaluating Sequence Clustering Tools in PCR Primer Design Pipelines: A Case Study of CD-HIT and MMSeqs2 (University of Technology, CZ)

**Jiří Zahradník** – The Shape of Adaptation: What SARS-CoV-2 Taught Us About Protein Plasticity and Viral Evolution (Faculty of Medicine, Charles University and BIOCEV, CZ)

**Katarína Matiašková** – Effectiveness of polyphenol-based formulations in treatment of *Staphylococcus hyicus* skin infection in pigs (Veterinary Research Institute, CZ)

**Helena Langhansová** – *Borrelia burgdorferi* modulates immune tolerance through PD-1/PD-L1 pathway (Faculty of Science, University of South Bohemia, CZ)

**Ryan Rego** – Grabbing On and Letting Go - Motility of the Lyme Disease Bacterium (Biology Centre of CAS, CZ)

**Jakub Držmíšek** – Flagella-derived Regulation of the Type III Secretion System in *Bordetella pertussis* (Institute of Microbiology of CAS, CZ)

**Jana Prošková** – The Adhesion Mechanism of *Bordetella pertussis*: A Critical Role of the Mature C-terminal domain of FhaB (Institute of Microbiology of CAS, CZ)

**Ladislav Bumba** – Extreme C-terminus of the FhaB prodomain is essential for interaction of *Bordetella pertussis* with nasal ciliated epithelial cells (Institute of Microbiology of CAS, CZ)

**Jana Holubová** – *Bordetella pertussis* Toxin Drive the Emergence of a Unique CD8+ T Cell Subset in the Respiratory Tract (Institute of Microbiology of CAS, CZ)

**Denisa Petráčková** – Comparative Insights into *Bordetella pertussis* Intracellular Survival in THP-1 Cells and Primary Macrophages (Institute of Microbiology of CAS, CZ)

*Coffee break – Conference foyer*

**Ivana Malcová** – Environmental signals shape the T3SS tip filament structure and expression in *Bordetella* (Institute of Microbiology of CAS, CZ)

**Michaela Burešová** – Identification of residues involved in fatty acylation of *Bordetella pertussis* adenylate cyclase toxin (Institute of Microbiology of CAS, CZ)

**Ondřej Staněk** – The Dermonecrotic Toxin of *Bordetella*: A highly Toxic Protein with an Unknown Role in Pertussis Infection (Institute of Microbiology of CAS, CZ)