### MONDAY (November 10, 2025)

4:00 – 5:45pm	Arrival of participants, Registation and helpdesk open (Entrance hall, hotel Chateau Třešť)
6:00 – 6:30pm	Keynote lectures
	<b>Lokesh Joshi</b> - National Center for Biomedical Engineering Science, University of Galway, IE
06:30 – 12:00pm	Welcome party (Entrance hall/Auditorium, hotel Chateau Třešť)

### TUESDAY (November 11, 2025)

8:30am – 10:15ar	m Session I.
	Chairmans: Gediminas Drabavicius, Ján Matiašovic
8:30 – 9:00am	Gediminas Drabavicius – Dissecting Host-Pathogen Interactions Using CRISPR Screens: Insights into CDC Toxicity (Vilnius University, Medical Sciences Center, LT)
9:00– 9:15am	Ján Matiašovic – Current view on the taxonomy of Streptococcus suis (Veterinary Research Institute, CZ)
9:15– 9:30am	<b>Monika Zouharová</b> – Genomic Survey of <i>Streptococcus</i> parasuis Isolates from Clinical Cases in Cattle (Veterinary Research Institute, CZ)
9:30- 9:45am	<b>Petra Špidlová</b> – HU protein, inconspicuous player in <i>Francisella</i> virulence (Military Faculty of Medicine, UoD, CZ)
9:45 10:00am	<b>Eva Velecká</b> – Bacterial HU protein as a regulator of host cell gene expression (Military Faculty of Medicine, UoD, CZ)
10:00– 10:15am	<b>Věra Vozandychová</b> – Host Macrophage Deubiquitinating Enzymes Exhibit Altered Activity Upon <i>Francisella tularensis</i> Infection (Military Faculty of Medicine, UoD, CZ)
10:15– 10:45am	Coffee break – Conference foyer

10:45 – 11:00am	<b>Andreja Zubković</b> – Long-Term Survival and Encystment Modulation of <i>Francisella novicida</i> in <i>Acanthamoeba castellanii</i> (University of Rijeka, Medical Faculty, HR)
11:00 – 11:15am	<b>Lucie Balonová</b> – Role of glycoconjugates in the development of protective immunity against <i>Francisella tularensis</i> infection (Military Faculty of Medicine, UoD, CZ)
11:15 – 11:30am	Jana Pavlosková – In Vitro Characterization of <i>Francisella tularensis</i> Infection and Early Immunopeptidomic Insights (Military Faculty of Medicine, UoD, CZ)
11:30 – 11:45am	<b>Pavlína Lásková</b> – Identification and Validation of CD4+ T Cell Epitopes of the Intracellular Pathogen <i>Francisella tularensis</i> (Military Faculty of Medicine, UoD, CZ)
11:45 – 12:00pm	Paulína Mathéová – Identification of SPI-2 T3SS effectors inhibiting T cell activation (Institute of Microbiology of CAS, CZ)
12:00 – 12:15pm	<b>Alona Dreus</b> – Role of flagella in translocation of <i>Salmonella</i> T3SS effectors (Institute of Microbiology of CAS, CZ)
12:15 – 1:30pm	Lunch – hotel Chateau Třešť

1:30pm – 3:30pm	Session II.
	Chairmans: Jana Kamanová, Ivan Rychlík
1:30 – 2:00pm	Milada Pospíšilová – Bimodal Expression of Type 3 Secretion System 2 and its Effectors Enables Division of Labour (Institute of Microbiology of CAS, CZ)
2:00 – 2:30pm	Jana Kamanová – Functional specialization of the type III secretion systems (Institute of Microbiology of CAS, CZ)
2:30 – 3:00pm	Ivan Rychlík – Chickens as model for host-gut microbiota studies (Veterinary Research Institute, CZ)
3:00 – 3:30pm	Coffee break – Conference foyer
3:30 – 3:45pm	Jiří Volf – Mucus-associated microbiota in chicken caecum (Veterinary Research Institute, CZ)

3:45 – 4:00pm	<b>Lenka Vlasatíková</b> – Influence of experimental probiotic mixtures on chicken cecal metabolome (Veterinary Research Institute, CZ)
4:00 – 4:15pm	Jana Rájová – Cecum and Bursa Proteomes in Day-Old Broilers (Veterinary Research Institute, CZ)
4:15 – 4:45pm	<b>Darina Čejková</b> – Temporal Dynamics of Plasmid-Associated Antibiotic Resistance in the Chicken Gut Microbiome (Brno University of Technology, CZ)
4:45 – 5:00pm	Company presentation
5:00 – 5:15pm	Company presentation

### WEDNESDAY (November 12, 2025)

9:15 – 12:00pm	Session III.
Chairmans	: Jana Schwarzerová, Ryan Rego

9:15 – 9:30am	Jana Schwarzerová – Evaluating Sequence Clustering Tools in PCR Primer Design Pipelines: A Case Study of CD-HIT and MMSeqs2 (University of Technology, CZ)
9:30 – 10:00am	<b>Jiří Zahradník</b> – The Shape of Adaptation: What SARS-CoV-2 Taught Us About Protein Plasticity and Viral Evolution (Faculty of Medicine, Charles University and BIOCEV, CZ)
10:00 – 10:15am	<b>Katarína Matiašková</b> – Effectiveness of polyphenol-based formulations in treatment of <i>Staphylococcus hyicus</i> skin infection in pigs (Veterinary Research Institute, CZ)
10:15 – 10:45am	Coffee break – Conference foyer
10:45 – 11.00am	<b>Helena Langhansová</b> – <i>Borrelia burgdorferi</i> modulates immune tolerance through PD-1/PD-L1 pathway (Faculty of Science, University of South Bohemia, CZ)
11:00 – 11:15am	Ryan Rego – Grabbing On and Letting Go - Motility of the Lyme Disease Bacterium (Biology Centre of CAS, CZ)

11:15 – 11:30pm **Company presentation** 

11:30 – 11:45pm Company presentation

12:00 – 1:30pm Lunch – hotel Chateau Třešť

2:30pm – 6:00pm Social program

6:00pm – 12:00pm Conference Reception (restaurant Panský dvůr, Telč)

#### THURSDAY (November 13, 2025)

9:00 – 12:15pm Session IV.

Chairmans: Ivana Malcová, Ondřej Staněk

9:00 – 9:30am	<b>Jakub Držmíšek</b> – Flagella-derived Regulation of the Type III Secretion System in <i>Bordetella pertussis</i> (Institute of Microbiology of CAS, CZ)
9:30 – 9:45am	<b>Jana Prošková</b> – The Adhesion Mechanism of <i>Bordetella pertussis</i> : A Critical Role of the Mature C-terminal domain of FhaB (Institute of Microbiology of CAS, CZ)
9:45 – 10.00am	<b>Ladislav Bumba</b> – Extreme C-terminus of the FhaB prodomain is essential for interaction of <i>Bordetella pertussis</i> with nasal ciliated epithelial cells (Institute of Microbiology of CAS, CZ)
10:00 – 10.15am	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)
10:15 – 10.30am	<b>Denisa Petráčková</b> – Comparative Insights into <i>Bordetella pertussis</i> Intracellular Survival in THP-1 Cells and Primary Macrophages (Institute of Microbiology of CAS, CZ)
10:30 – 11:00am	Coffee break – Conference foyer
11:00 – 11:30am	Ivana Malcová – Environmental signals shape the T3SS tip filament structure and expression in <i>Bordetella</i> (Institute of

Microbiology of CAS, CZ)

11:30 – 12:00am	<b>Michaela Burešová</b> – Identification of residues involved in fatty acylation of <i>Bordetella pertussis</i> adenylate cyclase toxin (Institute of Microbiology of CAS, CZ)
12:00 – 12:15am	Ondřej Staněk – The Dermonecrotic Toxin of <i>Bordetella</i> : A highly Toxic Protein with an Unknown Role in Pertussis Infection (Institute of Microbiology of CAS, CZ)
12:15 – 2:00pm	Closing the conference, lunch at hotel Chateau Třešť
	Departure of participants