# AGENDA

## MONDAY (November 07, 2022)

3:30 – 5:45pm	Arrival of participants, Registation and helpdesk open (Entrance hall, hotel Mědínek)
6:00 – 6:30pm	<b>Kubelková Klára</b> , <b>Macela Aleš</b> – Opening (Auditorium, hotel Mědínek)
6:30 – 7:00pm	Keynote lecture
	<b>Juraj Ivanyi</b> – Potentials of antibody ligands with T cell receptor specifity for the immunotherapy of intracellular infections (Centre for Host-Microbiome Interactions, Guy's Campus of Kings College London, UK)
7:00 – 12:00pm	Welcome party (Entrance hall/Auditorium, hotel Mědínek)

## TUESDAY (November 08, 2022)

8:00am – 10:15an	n Session I.
	Chairperson: Sjostedt Anders, Šantić Marina
8:00 – 8:30am	<b>Sjostedt Anders</b> – The <i>Francisella tularensis</i> ClpB – a unique chaperone regulating T6SS (Umeå University, SE)
8:30 – 9:00am	<b>Špidlová Petra</b> – Arginine 58 is indispensable for proper function of the Francisella tularensis HU protein, and its substitution alters virulence and mediates immunity against wild-type strain (FoMHS, University of Defence, CZ)
9:00 – 9:15am	<b>Lásková Pavlína</b> – Validation of <i>Francisella tularensis</i> peptides as immunogenic T-cell epitopes (FoMHS, University of Defence, CZ)
9:15 – 9:45am	<b>Šantić Marina</b> – <i>Francisella</i> in the environment (University of Rijeka, HR)

9:45 – 10:00am	0:00am Vozandychová Věra – Changes of host deubiquitination enzyme					n enzymes
	during	Francisella	tularensis	infection	of	human
	macrophages(FoMHS, University of Defence, CZ)					
10:00 – 10:15am	tularemia	Mirna – IL-1β in autophag LVS infection	y deficient	animals durir		
10:15 – 10:45am	Co	offee break – C	Conference foy	ver		

10:45am – 12:00pm Session II.			
	Chairperson: Mou Sherry, Kamanová Jana		
10:45 – 11:15am	<b>Kamanová Jana</b> – <i>Bordetella</i> Type II Secretion Injectosome and Effector Proteins (Institute of Microbiology of the ASCR, CZ)		
11:15 – 11:30am	<b>Bumba Ladislav</b> – Pertusis toxin suppresses dendritic cell-mediated delivery of <i>B. pertusis</i> into lung-draining lymph nodes (Institute of Microbiology of the ASCR, CZ)		
11:30 – 11:45pm	<b>Čížková Monika</b> – Role of BscX and BscY proteins in the <i>Bordetella</i> type 3 secretion system (Institute of Microbiology of the ASCR, CZ)		
11:45 – 12:00pm	<b>Vysloužil Jan</b> – News in optical and electron microscopy (Pragolab s.r.o., CZ)		
12:00 – 1:15pm	Lunch – hotel Mědínek		

	Chairperson: Mou Sherry, Kamanová Jana			
1:15 – 1:45pm	<b>Mou Sherry</b> – The <i>Burkholderia pseudomallei</i> hmqA-G Locus Mediates Competitive Fitness against Environmental Gram-Positive Bacteria (USAMRIID, Maryland, USA)			
1:45 – 2:15pm	<b>Malcová Ivana</b> – Lipid Binding by the N-terminal Motif Mediates Plasma Membrane Localization of <i>Bordetella</i> Effector Protein BteA (Institute of Microbiology of the ASCR, CZ)			

Session III.

1:15pm – 5:05pm

2:15 – 2:45pm	Romero Allsop Tania, Zmuda Martin, Sedláčková Eliška – Unraveling the Mechanisms of Action of <i>Bordetella</i> Effector Protein BteA (Institute of Microbiology of the ASCR, CZ)
2:45 – 3:00pm	<b>Grobarčíková Michaela</b> – Identification of residues involved in posttranslational modification of RTX toxins of Gram-negative pathogens (Institute of Microbiology of the ASCR, CZ)
3:00 – 3:30pm	Coffee break – Conference foyer
3:30 – 3:45pm	<b>Vávrová Pavlína</b> – Implementation of adavanced methodical strategies to form dual-species biofilm in the research of anti-biofilm acting compounds (Charles University, Faculty of Pharmacy, CZ)
3:45 – 4:15pm	<b>Černý Ondřej</b> – CD97 stabilizes the immunological synapse between dendritic cells and T cells and is targeted for degradation by the <i>Salmonella</i> effector SteD (Institute of Microbiology of the ASCR, CZ)
4:15 – 4:30pm	<b>Kambová Milada</b> – Heterogeneous expression of <i>Salmonella Typhimurium</i> SPI-2 T3SS effectors (Institute of Microbiology of the ASCR, CZ)
4:30 – 4:35pm	<b>Dreus Alona</b> – <i>Salmonella</i> SPI-2 TTSS effectors: Where and When (Institute of Microbiology of the ASCR, CZ)
4:35 – 4:50pm	<b>Kukla Stanislav</b> – Proximity Ligation Assay - a powerful tool for study of endogenous protein function (Merck Life Science spol. s r.o., CZ)
4:50 – 5:05pm	<b>Krist Pavel</b> – ZEISS - The Most Advanced Light, X-ray and Electron Microscopy (Carl Zeiss spol. s r.o, CZ)

## WEDNESDAY (November 09, 2022)

8:00 – 9:45am	Session IV.
	Chairperson: Matiašovic Ján, Kolářová Iva
8:00 – 8.15am	<b>Matiašovic Ján</b> – Development of vaccine against <i>Streptococcus</i> suis infection in pig (Veterinary Research Institute, CZ)

8:15 – 8.30am	<b>Zouharová Monika</b> – Diversity of <i>Streptococcus suis</i> strain isolated from sick pigs from farms in the Czech Republic (Veterinary Research Institute, CZ)
8:30 – 8.45am	<b>Matiášková Katarína</b> – Resistance of <i>Streptococcus suis</i> Isolates from the Czech Republic during 2018-2022 (Veterinary Research Institute, CZ)
8:45 – 9.00am	<b>Králová Natálie</b> – The capsular polysaccharide synthesis locus analysis of <i>Streptococcus suis</i> isolates (Veterinary Research Institute, CZ)
9:00 – 9:30am	<b>Kolářová Iva</b> – Host- <i>Leishmania</i> interactions – an essential role of the vector (Department of Parasitology, Faculty of Science, Charles University)
9:30 – 9:45am	<b>Jelínková Kristýna</b> – Dual role of anti-vector saliva immunity on the outcome of <i>Leishmania</i> infection (Veterinary Research Institute, CZ)
9:45 – 10:15am	Coffee break – Conference foyer

10:15 – 12:00am	Session V.
	Chairperson: Rychlík Ivan, Volf Jiří
10:15 – 10.45am	<b>Rychlik Ivan</b> – How to select novel types of probiotics? (Veterinary Research Institute, CZ)
10:45 – 11.00am	<b>Crhánová Magdalena</b> – Environmental survival of gut microbiota members and their host species adaptation (Veterinary Research Institute, CZ)
11:00 – 11.15am	Vlasatíková Lenka – The untargeted metabolomic profiling using LC-MS can distinguish the impacts of different probiotic mixtures on the cecal metabolome of laying chickens in small-scale experiments (Veterinary Research Institute, CZ)
11:15 – 11:30am	<b>Zeman Michal</b> – Metabolism of selected members of chicken gut microbiota in vivo (Veterinary Research Institute, CZ)
11:30 – 11:45am	<b>Schwarzerová Jana</b> – Comprehensive analysis of mobile genetic elements in chicken gut microbiome using a novel in-silico approach (Faculty of Electrical Engineering and Communication, Brno Univ, CZ)

11:45 – 12:00am	Čejková Darina- Horizontal gene transfer network in chicken gu microbiome (Brno University of Technology, CZ)		
12:00 – 1:00pm	Lunch – hotel Mědínek		
1:00 – 6:00pm	Social program (Tour of the City of Silver)		
7:00 – 12:00pm	Conference Reception (restaurant Dačický)		

## THURSDAY (November 10, 2022)

8:00 – 10:00am	Session VI.
	Chairperson: Rösl Frank, Boštík Vanda
8:00 – 8:30am	<b>Rösl Frank</b> – Cutaneous papillomavirus induced skin carcinogenesis: molecular and immunological aspects (German Cancer Research Center, Heidelberg, GE)
8:30 – 8:45am	<b>Machát Radek</b> – Innate immune response of common carp (Cyprinus carpio L.) to Koi herpesvirus infection (Veterinary Research Institute, CZ)
8:45 – 9.00am	<b>Pokorná Karolína</b> – Investigating the Role of UR11 in Hepatitis B Virus Replication (Institute of Organic Chemistry and Biochemistry of the ASCR, CZ)
9:00 – 9.30am	<b>Boštík Vanda</b> – Lessons from the COVID-19 Pandemic (FoMHS, University of Defence, CZ)
9:30 – 9.45am	Hrdý Jiří – Impact of vaccination against COVID-19 on immune responses in patients suffering from autoimmune neurological disorders treated with rituximab or ocrelizumab (Charles University and General University Hospital in Prague, CZ)
9:45 – 10.00am	Vašák Jiří – The HoloMonitor: holografy in microscopy (KRD s.r.o., CZ)
10:00 – 10:45am	Coffee break – Conference foyer

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## Session VII.

## Chairperson: Schabussova Irma, Kozáková Hana

10:45 – 11:15am	Irma Schabussova – Extracellular vesicles: The missing link between microbiota and the host immunity? (Medical University of Vienna, AT)
11:15 – 11:30am	<b>Bavlovič Jan</b> – Outer membrane vesicles and nanotubes secretion in <i>Francisella tularensis</i> strain with disrupted O-antigen (FoMHS, University of Defence, CZ)
11:30 – 11:45am	<b>Bulvas Ondřej</b> – Mechanism of mycobacterial inosine-5′-monophospahte gehydrogenase allosteric regulation (Institute of Organic Chemistry and Biochemistry of the ASCR, CZ)
11:45 – 12:00am	<b>Dedola Matteo</b> – Multiprotein organization of the purine metabolism enzymes in mycobacteria (Institute of Organic Chemistry and Biochemistry of the ASCR, CZ)
12:00 – 12:15am	<b>Hrdý Jiří</b> – Effect of early postnatal supplementation of newborns by probiotic strain <i>E. coli</i> O83:K24:H31 on allergy incidence, dendritic cells and microbiota (Charles University and General University Hospital in Prague, CZ)
12:15 – 2:00pm	Closing the conference, lunch and departure of participants