8:30 – 9:00 Registration
9:00 – 9:15 Welcome

9:15 – 10:00 I. Key Lecture: Novel role of protein TPR in the cell nucleus
Miloslava Maninová; Institute of Molecular Genetics of the CAS, v. v. i., Prague

10:00 – 12:00 Session I – Nucleic acids research & Cell Biology
Chair: Miloslava Maninová; Institute of Molecular Genetics of the CAS, v. v. i., Prague

10:00 – 10:15 Effect of DNA topology on transcription in Bacillus subtilis
Petra Sudzinová; Institute of Microbiology of the CAS, v. v. i., Prague

10:15 – 10:30 Influence of major groove DNA modification on transcription
Martina Janoušková; Institute of Microbiology of the CAS, v. v. i., Prague

10:30 – 11:00 Coffee Break

11:00 – 11:15 A pipeline for ncRNA BLAST hits examination
Marek Schwarz; Institute of Microbiology of the CAS, v. v. i., Prague

11:15 – 11:30 RNA splicing in long non-coding RNA
Prasoon Kumar Thakur; Institute of Molecular Genetics of the CAS, v. v. i., Prague

11:30 – 11:45 Genexp: method for validating and inferring gene regulatory networks using time-course expression data
Martin Modrák; Institute of Microbiology of the CAS, v. v. i., Prague

11:45 – 12:00 Translation control
Mahabub Pasha Mohammad; Institute of Microbiology of the CAS, v. v. i., Prague

12:00 – 13:15 Lunch

13:15 – 14:00 Key Lecture: The World of Bacteria: From Head to Toe
Libor Krášný; Institute of Microbiology of the CAS, v. v. i., Prague

14:00 – 15:30 Session II – Bacteriology
Chair: Libor Krášný; Institute of Microbiology of the CAS, v. v. i., Prague

14:00 – 14:15 Subversion of host innate immune responses by Bordetella adenylate cyclase toxin.
Jawid Ahmad; Institute of Microbiology of the CAS, v. v. i., Prague

14:15 – 14:30 Genetic manipulation of the biosynthetic gene cluster of the cyanobacterial secondary metabolite Nocuolin A
Alejandro Carrión Sanabria; Algatech, Institute of Microbiology of the CAS, v. v. i.
14:30 – 14:45 Sigma I regulon from *Bacillus subtilis*
Olga Ramanuk; *Institute of Microbiology of the CAS, v. v. i., Prague*

14:45 – 15:00 Hunting for bacterial nanotubes in *Bacillus subtilis*
Jiří Pospíšil; *Institute of Microbiology of the CAS, v. v. i.*

15:00 – 15:30 Coffee Break

15:30 – 16:15 *Key Lecture:* Efficient transgenesis in chicken through genome editing of primordial germ cells
Jiří Hejnar; *Institute of Molecular Genetics of the CAS, v. v. i., Prague*

16:15 – 17:30 Session III – Virology & Diseases
Chair: Jiří Hejnar; *Institute of Molecular Genetics of the CAS, v. v. i., Prague*

16:15 – 16:30 When site matters: The story about retrovirus-host genome relationship
Dalibor Miklík; *Institute of Molecular Genetics of the CAS, v. v. i., Prague*

16:30 – 16:45 Immature HIV-1 capsid and its assembly
Martin Obr; *Heidelberg University Hospital*

16:45 – 17:00 Short Break

17:00 – 17:15 The *Plasmodium* fertility factor
Klára Vochyánová; *Heidelberg University Hospital, Center for Infectious Diseases*

17:15 – 17:30 Circadian rhythms in psychiatric and sleep disorder
Kamila Weissová; *National Institute of Mental Health, Prague*

17:30 – 17:40 Closing Remarks and Best Presentation Award

17:40 – Small Refreshment and Party

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