



National Institute  
of Virology and Bacteriology

# Networking 2025

## AlphaFold and other AI tools in protein structure and design, Institute of Molecular Genetics Prague

**Date:** 21 August 2025

**Time:** 10:00-15:10

**Venue:** Institute of Molecular Genetics of the Czech Academy of Sciences, Vídeňská 1083, 142 20 Prague 4

### Program

09:30-10:00 **Registration of participants**

10:00-10:05 **Welcome and Opening remarks**, Jiří Hejnar (IMG)

10:05-10:40 **AlphaFold and beyond – how we got magic tools**, Václav Hanžl (UCT)

10:40-11:05 **Examples of AlphaFold predictions in structural studies of signaling protein complexes**, Tomáš Obšil (CUNI)

11:05-11:25 **Examples of protein structure prediction usage (not only) in virology**, Michal Sýkora (MUNI)

11:25-11:40 **Practical use of AlphaFold in protein construct optimization**, Tomáš Kotačka (IOCB)

11:40-12:10 To be determined

12:10-13:30 **Lunch**

13:30-13:50 **AI and docking**, Radim Nencka (IOCB)

13:50-14:10 **Advancing our understanding of protist viruses through protein structure prediction**, Anna Koslová (IMG)

14:10-14:40 **AlphaFold from Scratch to Impact: Unlocking New Possibilities in Protein Design**, Pavel Kohout (MUNI)

14:40-15:10 **Are AI-Generated Structures of Protein-Ligand Complexes Ready for Physics-Based Scoring?**, Martin Lepšík (IOCB)

**Registration:** <https://forms.gle/ZEXLXMV8ahv8BWF39>

