

9.00 - 14.00, Friday, May 15th, 2026

Workshop

Current Topics in Molecular Biosciences

- 09:30 - 09:35 Welcome from Andrei Petrescu & Ana-Nicoleta Bondar
- 09:35 - 09:50 Gebhard Schertler, *Structural Biology of Membrane Proteins, PSI, CH*
Probing Rhodopsin dynamics with time resolved crystallography on synchrotrons and Free Electron Lasers
- 09:50 - 10:05 Ching-Ju Tsai, *Laboratory of Biomolecular Research, PSI, CH*
Light-sensitive GPCR-G protein signaling — What we have learned from the structures
- 10:05 - 10:20 Gabriela Popescu, *Buffalo University, USA,*
Dynamic Calcium Permeability of NMDA receptors
- 10:20 - 10:35 Kalina Hristova, *Johns Hopkins University, USA*
Signaling events at the cell surface
- 10:35 - 10:50 Valerica Raicu, *University of Wisconsin, USA*
Methods and techniques for studying molecular interactions collectively or a few at a time
- 10:50 - 11:05 Laurentiu Spiridon, *Institute of Biochemistry of the Romanian Academy*
Improving Parallel Tempering with Robosample
- 11:05 - 11:20 Liviu Movileanu, *Syracuse University, USA*
Bioinspired Nanopore Sensors Using Antibody Mimetic Technologie
- 11:20 - 11:40 Coffee break
- 11:40 - 11:55 Kota Katayama, *Nagoya Institute of Technology*
Structure-guided molecular basis of wavelength selectivity in primate cone visual pigments
- 11:55 - 12:10 Kento Watanabe, *Nagoya Institute of Technology*
Infrared spectroscopic study of the molecular basis of negative allostery in muscarinic receptors
- 12:10 - 12:25 Ioana Dumitru, *University of Bucharest*
Conformational dynamics of the Basigin-MCT1 complex
- 12:25 - 12:40 William C. Wimley, *Tulane University*
Synthetic Evolution of Host-compatible Peptide Antibiotics
- 12:40 - 12:55 Mariana Pinteală, *Petru Poni Institute of Macromolecular Chemistry, Iasi*
BioMat4CAST: Advancing the Future of Chemistry
- 12.55 - 14:00 Pizza, networking, and visit of the lab