



XXV IUCr Congress satellite seminar Methods of Structural Biology



Date: August 13, 2021

Venue: Institute of Biotechnology of the Czech Academy of Sciences, Biocev Centre, Prumyslova 595, Vestec near Prague + online

Aim: The seminar will focus on several methods of structural biology in invited talks and provide an opportunity to visit the core facilities of the Centre of Molecular Structure (CMS) at IBT providing open access for structural biology research under the Czech Infrastructure for Integrative Structural Biology.

Participation fee: There is no participation fee. No registration needed – just come or join online.

For an overview on available **instruments and techniques at the Centre of Molecular Structure**, please visit [here](#) or [here](#).



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Program - Friday, August 13

12:30-15:20 – Talks from experts – possible to attend **on site** (large conference room U2.012 at BIOCEV) **or via zoom**:

<https://cesnet.zoom.us/j/94212770045?pwd=SDZhNEQwMHZRckJcFRsRWdoMjQzZz09>

Meeting ID: 942 1277 0045

Passcode: 250808

12:30-12:35 Introductory remarks, Jan Dohnálek, IBT Vestec

12:35-13:05 **Crystallization of membrane proteins using lipidic systems** - Martin Caffrey, The University of Dublin

13:05-13:35 **Protein crystallography at XFELs** - Arwen Pearson, Universität Hamburg - *remote*

13:35-14:00 Coffee break

14:00-14:30 **Advanced SAXS modeling techniques for biological macromolecules in solution** - Dmitry Molodenskiy, EMBL Hamburg - *remote*

14:30-15:00 **Structural Mass Spectrometry** - Julien Marcoux, IPBS Toulouse

15:00-15:20 **Application talk: Spectroscopic methods to study biomolecular structure and dynamics** - Gustavo Fuertes Vives, IBT Vestec

15:30-16:30 Tour around the facilities with facility experts – **on site only**

15:30-16:00 **Group 1** - Structural Mass Spectrometry (Petr Pompach); **Group 2** – Crystallization (Jiří Pavlíček), X-ray diffraction (Jan Stránský), SAXS (Jan Stránský), Biophysics (Tania Charnavets/Olga Dzmitruk)

16:00-16:30 **Group 1** – Crystallization (Jiří Pavlíček), X-ray diffraction (Jan Stránský), SAXS (Jan Stránský), Biophysics (Tania Charnavets/Olga Dzmitruk), **Group 2** - Structural Mass Spectrometry (Petr Pompach)

Organized within a joint **satellite workshop Methods of Structural Biology** which has also its **virtual CCP4/CCPEM computational part** running on 9-10 August (separate registration at <https://web.cvent.com/event/7ff5f4dd-6a9f-4fb9-acb4-02cd9393e907/regProcessStep1>).