





Course aims



The main objective of the EMBO Global Exchange Lecture Course is to teach the young PhD students and postdocs from all areas of biology the methods applicable to study biological macromolecules in solution. We aim at a comprehensive coverage of field including the major structural and the techniques biophysical employed the characterization of high and low resolution structure and structural transitions, macromolecular complex formation, protein folding and stability, proteinprotein and enzymatic mechanisms.

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What will (and what will not) be covered



The two major methods covered are:

- small-angle X-ray and neutron scattering (SAXS/SANS)
- nuclear magnetic resonance (NMR)

The other methods for solutions include analytical ultracentrifugation (AUC), light scattering, calorimetry, spectroscopic approaches, bioinformatic tools etc.

The major structural methods, which will NOT be covered:

- macromolecular crystallography (MX),
- electron microscopy (EM),
- mass spectrometry (MS)

However, attention will be paid to interdisciplinary approaches where SAS and NMR are employed together with these and other non-solution methods.





