Course for Ph.D. students
XLI Cycle (1 Nov 2025 – 31 Oct 2028)

Curriculum
INNOVAZIONE NEL CAMPO DELLE SCIENZE FARMACEUTICHE

Determination of protein structure
(1 ECTS)

Prof. Serena Faggiano
UNIVERSITY OF PARMA

Course language: **English**

Scheduling: ***10th and 11th June 2026, 9.30-12.30***

To attend the course please contact:
serena.faggiano@unipr.it

Course description
The course will cover the basis of structural biology techniques (focusing on nuclear magnetic resonance and X-ray crystallography) applied to investigate protein structure and dynamics. Students will learn about protein crystallization, space groups, diffraction and electron density maps. The main principles of biomolecular NMR will be explained, describing the most common 2D and 3D experiments used to perform resonance assignment and protein structure determination.

Evaluation: YES (multiple-choice quiz on the basic principles explained in the course)