

Structural Biochemistry Course IBPC

From Protein Identification by Mass Spectrometry to Crystal Structure Determination and Molecular Dynamic Analysis.

23-30 March 2017



**Master
In Silico
Drug Design**



IBPC



Organizers :

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Intervenants :

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We announce the second Structural Biochemistry Course organized in collaboration with the Labex Dynamo with the UMR 7099 and UPR 9080 of the Institute of Physico-Chemical Biology (IBPC) and University of Paris Diderot.

The course is principally aimed to « *In Silico* Drug Design » Master 1 students of University of Paris Diderot, but applications from mature graduate students are encouraged in the limit of a maximum number of 12 participants.

The goal of this course is to provide students with a better knowledge of available structural data in the scientific community and the importance of how a 3D structure is obtained, which is in perfect agreement with the objectives of the Master.

This course consists of lectures given on principles and limitations of the different techniques and practical training on robot-assisted protein crystallisation, data analysis, structure refinement and molecular dynamics programs. The availability of mass spectrometry and crystallography facilities at IBPC and the unique opportunity to visit the SOLEIL synchrotron will introduce students to advanced and modern techniques in structural biology.

Throughout this course, the students will have the opportunity to face some of the current challenges in structural biology and have a grasp at the importance of critical analysis of experimental data.