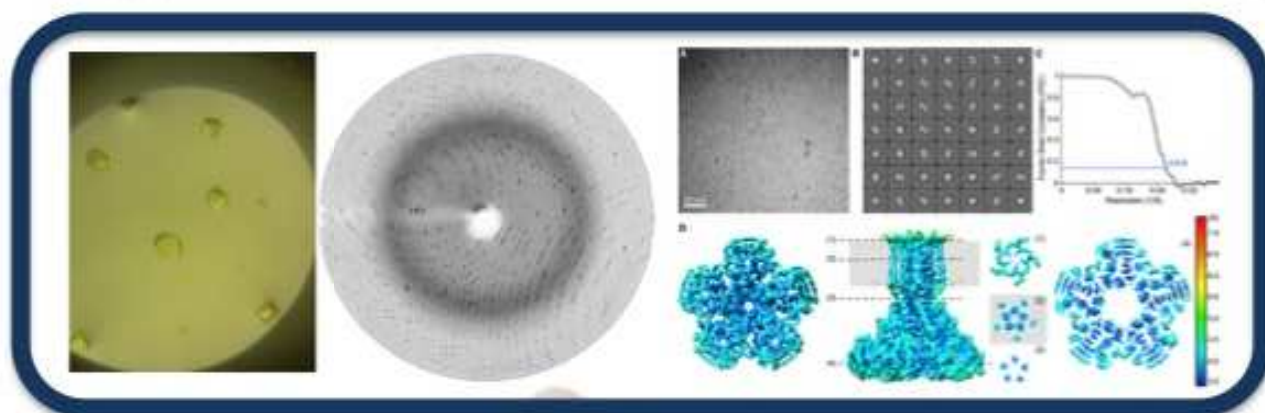


PhD Course:

Integrated Structural Biology



It is a great pleasure to announce the PhD Course of Integrated Structural Biology, organized jointly by PhD Schools of MOLECULAR AND CELLULAR BIOLOGY and SEMM, which will be held on April 8-10, 2019.

Understanding how proteins function dynamically within large macromolecular assemblies, in a cellular pathway or even at the organism level is a major challenge of modern biology. In this respect structural biology can provide the fundamental contribution of understanding the molecular bases in physiologic and pathologic mechanisms.

The two main techniques, X-ray crystallography and Cryo-EM can provide both atomic resolution and the three-dimensional architectures of mega-dalton complexes at a molecular scale, which are among the most amazing scientific achievements of our days.

In this perspective, the PhD course in Integrated Structural Biology will illustrate methods, working principles and applications of these two techniques. Emphasis will be on 3D-structural analysis, structure-based drug design; specific biological topics such as DNA polymerase and protein aggregation will be used as examples.

The course will consist of scientific lectures and hands-on practical training.

The course is tailored for PhD students non-expert in the field at the 2nd and 3rd year, but is open to 1st year motivated students, number of participants is limited to 25.

Confirmed Speakers are: Prof. J.M. Carazo (CSIC, Spain); Dr. A. Costa (Francis Crick Institute, UK); Dr. I. Ferlenghi (GSK Vaccines, Italy).

Registrations are open until March 15th, 2019 at the following site:

<http://www.unimi.it/ricerca/dottorati/126076.htm?ins=R11-11&anno=2019>

Final program will be available at the end of March.

The course will take place partly at the IEO Institute (Via Adamello 16) and partly at the Dip. of Bioscience (Via Celoria 26).

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