

## Course: Simulation Environments for Life Sciences

### Objectives

The course will make the attendants familiar with simulation technologies used in Life Sciences and their specific adaptation to HPC environment

**Detailed outline:**

Introduction to biomolecular simulation

Coarse-grained and atomistic simulation strategies

Automated setup for simulation

**HPC specifics:** Large scale parallelization, use of GPU's

Storage and strategies for large scale trajectory analysis

**Learning Outcomes:** Setup, execute, and analyze standard simulations in HPC environment

**NOTE:** PATC courses do not charge fees.

**PLEASE BRING YOUR OWN LAPTOP.**

**Recommended Accomodation:**

Please follow [the link](#) for map of some local hotels.

**Contact Us:**

[CONTACT US](#) for further details about MSc, PhD, Post Doc studies, exchanges and collaboration in education and training with BSC.

For further details about Postgraduate Studies in UPC - Barcelona School of Informatics (FiB), visit the [website](#).

### **Sponsors:**

The PATC Courses at BSC are funded by BSC and the PRACE 3IP Project.

If you want to learn more about PRACE Project, visit the [website](#).

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