

## PATC 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

### Requirements

**Prerequisites:** Basic knowledge of structural bioinformatics Basic knowledge of parallelization strategies  
Material will be provided during the course, students are welcome to provide their own use cases.

#### Academic Staff

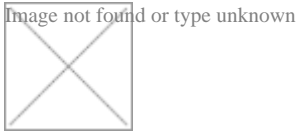
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### Course Convener:

**Josep Gelpi**

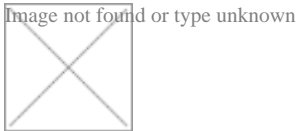
## Materials



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- For further details, please contact BSC?CNS patc [at] bsc [dot] es

## Further information



Registration for this course will be opened at a later date.

**PLEASE BRING YOUR OWN LAPTOP.**

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

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

**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:** BSC and PRACE 4IP project are funding the PATC @ BSC training events.

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

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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