PATC: Introduction to 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

Course Convener: Josep Gelpi

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

Further information

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 5IP project are funding the PATC @ BSC training events.
If you want to learn more about PRACE Project, visit the website.

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