

## **BSC Training Course: HPC-based Computational Bio-Medicine: from cell to organ level**

### **Objectives**

The objective of this course is to give a panorama on the use of HPC-based computational mechanics in Biomedical Sciences. The training is delivered in collaboration with the centers of excellence CompBioMed2, PerMedCoE and Dreams.

### **Requirements**

**Level:** All courses are designed for MSc and PhD students in STEM or Medical sciences.

Please download and carefully read the following [instructions](#) regarding the logistics participants enrolling PATC at BSC are expected to follow.

### **Learning Outcomes**

The course gives a wide perspective and the latest trends of how HPC helps in biomedical applications allowing to achieve more realistic multiphysics simulations. In addition, the student has the opportunity of running Jobs in Marenostrum supercomputer.

#### Academic Staff

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## Course conveners:

**Ane Beatriz Eguzkitza**, Established researcher, BSC-CASE, Physical and Numerical Modelling Group

**Mariano Vázquez**, Established Researcher, BSC-CASE, Physical and Numerical Modelling Group

## Lecturers:

**C. Teijeiro-Barjas**, SURFsara

**Okba Hamitou**, Atos

**Andrea Townsend-Nicholson**, UCL

**Alexander Heifetz**, Evotec

**Arnau Montagud**, BSC, PerMedCoE

**Silvia Ceccacci**, BSC

**Beatriz Eguzkitza**, BSC

**Jelle van Dijk**, University of Amsterdam

## [Materials](#)

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## [Further information](#)

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## Contact Us:

education [at] bsc [dot] es (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](#).

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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