

EDITORIAL COMMENT

We are proud to present the Book of Abstracts for the 6th BSC Severo Ochoa Doctoral Symposium.

During more than ten years, the Barcelona Supercomputing Center has been receiving undergraduate, master and PhD students, and providing them training and skills to develop a successful career. Many of those students are now researchers and experts at BSC and in other international research institutions.

In fact, the number of students has never decreased. On the contrary, their number and research areas have grown and we noticed that these highly qualified students, especially the PhD candidates, needed a forum to present their findings and fruitfully exchange ideas. As a result, in 2014, the first BSC Doctoral Symposium was born.

In this 6th edition of the BSC Severo Ochoa Doctoral Symposium we are offering two keynote talks titled “Brain and Behaviour: to which extent are we responsible for who we are” and “Preparing for Extreme Heterogeneity in HPC” and one two session tutorial on the topic of Creativity and Innovation.

This year we have made a special effort to organize the presentations into interdisciplinary blocks. The presentations will be held in 6 different sessions and will tackle the following topics:

- Algorithms, plastic biodegradation, wave propagation and seismology
- Data Analytics, genetic variability, distributed computing and seismology
- Machine Learning, personalized medicine and air quality
- HPC, biological simulation and computer architecture
- Meshes and Fluids, Hemodynamics
- Models and simulation, dust and pathogenicity prediction

The posters will be exhibited and presented during three poster sessions that will give the authors the opportunity to explain their research and results.