

BSC organizes EMBO workshop on “Computational models of life: From molecular biology to digital twins”

This five-day workshop will bring together over 100 early-stage researchers, field leaders and industry players from bioinformatics, computational biology, HPC and more

High Performance Computing (HPC) provides unprecedented opportunities boost Computational Biology’s ability to uncover mechanisms behind drug synergies and drug treatment by employing **digital twins** of all scales, from **molecules** to entire **bodies**. To share knowledge and discuss the most advanced techniques, the Barcelona Supercomputing Center (BSC) with the support of the European Molecular Biology Organization (EMBO) are organizing the workshop “[Computational models of life: From molecular biology to digital twins](#)”.

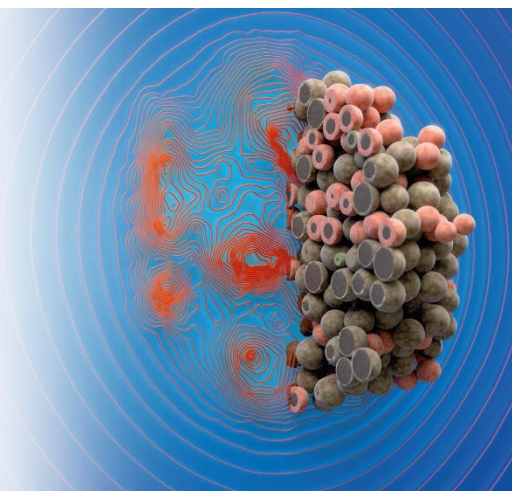
The event will be held at Sant Feliu de Guíxols, Spain **from 26 November to 1 December 2023**. [Registration](#) is now open with an **Early Bird** discount available until **20 September**.

The format of the workshop will facilitate interaction between early-career researchers and speakers from academia and industry. Attendees will be able to share cutting edge techniques at the crossroads of single-cell omics, modelling and HPC to pave the way for **realistic, scalable human digital twins**.

EMBO
Workshop

Computational
models of life: From
molecular biology to
digital twins

26 November - 1 December 2023
Sant Feliu de Guíxols, Spain





Networking and knowledge exchange among all attendees will be a key driver of the workshop. For this reason, this workshop is also targeting industry participation to provide their unique perspective and to open the door to potential future collaborations. Early career researchers will be given many opportunities to delve into the professional and academic backgrounds of speakers. Moreover, specific sessions will be devoted to training the participants' soft skills beyond those related to bioinformatics. The scientific speed dating, flash talks and meet the speaker, career path, poster sessions and the social activities will allow attendees to make the most of this workshop.

Potential participants will need to send an abstract by **4 September**, chosen participants will be notified by **15 September** and the registration and payment deadline will close on **16 October**. Interested eligible participants can check the different ways of participating and prices at the [EMBO event website](#). The workshop program, speaker profiles and more information on the coastal event location of this workshop is available on the web and on the event's LinkedIn page.

Also, there are a limited number of [sponsorship opportunities](#) available.

About EMBO

EMBO is an organization of more than 1,900 leading researchers that promotes excellence in the life sciences in Europe and beyond. The major goals of the organization are to support talented researchers at all stages of their careers, stimulate the exchange of scientific information, and help build a research environment where scientists can achieve their best work. EMBO Courses and Workshops are selected for their excellent scientific quality and timelines, provision of good networking activities for all participants and speaker gender diversity (at least 40% of speakers must be from the underrepresented gender)

About the Barcelona Supercomputing Center

The Barcelona Supercomputing Center-Centro Nacional de Supercomputación (BSC-CNS) is the national supercomputing centre in Spain. It specialises in high performance computing (HPC) and manages the [MareNostrum](#), one of the most powerful supercomputers in Europe.

BSC is at the service of the international scientific community and of industry that requires HPC resources. Its multidisciplinary research team and our computational facilities make BSC an international centre of excellence in e-Science. The Life Sciences Department of the BSC works to understand living organisms by means of theoretical and computational methods (molecular modeling, genomics, proteomics).



Further information

Jaume Lozano, Science Dissemination Officer, Barcelona Supercomputing Center

Email: embo@bsc.es , Tel: +34 934 015 739