

[BSC to participate in the BIYSC initiative](#)

The BIYSC is a two-week international excellence programme that aims to stimulate scientific talent among young students from all over the world.



BSC is taking part in the [BIYSC \(Barcelona International Youth Science Challenge\)](#) initiative with the project called “[Computational study of coffee compounds for cancer prevention](#)”, led by the centre’s Life Sciences department. The BIYSC was launched in 2016 by the Catalunya-La Pedrera Foundation and several top-level research centres from Barcelona also participate.

The BIYSC is a two-week international excellence programme that aims to stimulate scientific talent among young students from all over the world. Its main aim is to encourage their enthusiasm for pursuing scientific research and careers in science. 100 undergraduate students aged between 16 and 18 years will have the chance to enjoy taking part in BIYSC from 10-21 July 2017 in Barcelona.

About the BSC project at BIYSC

Computational study of coffee compounds for cancer prevention

The main goal of the BSC project is to design their own enzyme variant in order to speed up the production of a compound from molecules present in coffee plants that has industrial interest for applications in cancer prevention, among other things. As in a real investigation, the most promising results (once the project is over) will be brought to an experimental lab to validate them and, if this is successful, the students will have the chance to contribute to a scientific publication.

[Further information about the project.](#)

About BIYSC

BIYSC has been designed to offer participants a world-class experience by allowing them to work in English and in small groups, on different scientific and technological challenges proposed by international research centres based in Catalonia that carry out cutting-edge research. The programme also offers its participants the chance to enjoy the company of peers who share their same passions, to attend scientific lectures given by leading researchers, and to debate and discuss with them the most successful discoveries and scientific advances worldwide.

BIYSC aims to:

- **Inspire** bright young scientists to apply their minds to multi-disciplinary research.
- **Engage** young researchers with like-minded peers and eminent scientific leaders through close and personal interactive sessions.
- **Empower** participants to pursue their research passions.
- **Challenge** future scientist to drive their passion with attitude.

[Further information about the BIYSC](#)

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

Source URL (retrieved on 18 Mar 2025 - 13:19): <https://www.bsc.es/es/news/bsc-news/bsc-participate-the-biysc-initiative>