



# Barcelona International Youth Science Challenge



With the support of:



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Organized by:

**Fundació  
Catalunya  
La Pedrera**

Catalunya-La Pedrera Foundation, through the Area of Knowledge, Education and Research, organizes BIYSC as part of its vision in developing and collaborating with projects that promote excellence in education, offering young students opportunities and supporting those at risk of social exclusion. BIYSC was created based on the knowledge of projects that the Foundation has been running for several years in Catalonia and through the experience of our students that have attended similar international programmes around the world.

[www.biyisc.org](http://www.biyisc.org)

# BIYSC

Barcelona International Youth Science Challenge

Genetics  
Astrophysics  
Robotics  
Computer science  
Biomedicine  
Physics  
Engineering  
Biology  
Nanotechnology  
Chemistry  
Biotechnology

**From July 10<sup>th</sup> to 21<sup>st</sup> 2017**

# Barcelona International Youth Science Challenge BIYSC 2016

BIYSC is an international excellence program that aims to stimulate scientific talent among young students from all over the world. It is meant to encourage their enthusiasm for pursuing careers in science and technology.

We are looking for 100 students from 16 to 18 years old with a genuine interest for scientific research. If you are one of them, at BIYSC you will have the chance to meet in Barcelona from July 10<sup>th</sup> to 21<sup>st</sup> 2017 to develop your skills and knowledge challenging yourself every day.

## BIYSC Program

BIYSC is a two-week program full of challenges, that has been designed and developed with the aim to offer the participants a world-class experience by:

- Attending to the **Opening Ceremony** in the UNESCO World Heritage Site La Pedrera (Casa Milà).
- **Working hands-on in a project** within an international research center of their choice.
- Attending **scientific lectures** from leading scientists and participating in **debates and discussions** on the challenges scientists are facing today.
- Visiting some of the top international research centers in Catalonia.
- **Sightseeing of Barcelona** and surroundings, and taking part in the social and networking activities.
- Presenting their project's results in the **Closing Ceremony** in Món Sant Benet Conference Center.



## Projects

- Computational study of coffee compounds for cancer prevention
- Taking a closer look at DNA: using sequencing to explore evolution and biodiversity
- Instructive biomaterials for regenerative medicine
- Drosophila melanogaster: a model to study human disease
- Artificial photosynthesis
- Uncovering the hidden diversity of the oceans
- DETECTA: measuring cosmic rays coming from the Universe
- NanoLight: light and matter at the nanoscale
- Bioinspired/Social Robots and IoT: towards the future of robotics
- Neuro-robotics as a tool to understand the brain

**Are you in?**