

National Genome Analysis Centre (CNAG)

MUNICIPALITY

Barcelona

PROJECT DESCRIPTION

The mission of the National Genome Analysis Centre (known under its Spanish acronym, CNAG) is to carry out large-scale DNA analysis projects in collaboration with researchers from Catalonia, Spain and other parts of the world, whether from research centres, private companies, hospitals or universities.

In 2013, the CNAG consolidated itself as a key agent of the biomedical cluster within Catalonia and offered the different research groups a top-notch scientific infrastructure. That year, it increased its sequencing capacity and reached 800 gigabases daily, the equivalent of sequencing 8 human genomes every 24 hours. The centre also proportionally increased its computational infrastructure to more than 900 computational nodes, with a storage capacity of 2.2 petabytes.

The centre currently offers a wide array of genome applications that include de novo sequencing and whole genome resequencing, the resequencing of exomes or specific regions, the identification of points of union in the DNA and RNA sequencing.

The CNAG is participating in seven European projects of the 7th framework programme and is an active member of the International Cancer Genome Consortium (ICGC) through its genome sequencing of many different types of cancer.

Throughout 2014, the CNAG envisaged working intensely to develop new genome sequencing techniques and to improve the tools for the analysis of the data obtained.

REFERENCE WEBSITE

www.cnag.cat

NAME OF PROJECT MANAGER

Ivo Gut, Director of the National Genome Analysis Centre