

The National Programmes, Initiatives and Agencies Involved in the Promotion and Support of Genomic Initiatives.

- Biotechnology Programme (www.mcyt.es).
- Strategic Action on Genomic and Proteomic (www.mcyt.es).
- Sectorial Plans (e.g., INIA)
- Spanish Foundation for Genomics (www.gen-es.org)
- Local (Regional) Governments.
- Infrastructure calls for equipments.

Activities for Plant Science/Genomes within the Spanish Biotechnology Program (MCyT) include:

Finance and promote scientific projects.
In particular those in which the use and/or generation of genomic and proteomic tools are needed for reaching the scientific objectives (examples).

- One call for proposals/year.
- Project duration: 3 years.
- One single lab and also coordinated projects.
- Projects are scientifically evaluated by national experts (ANEP).
- A panel of experts also participate in the prioritization accordingly to the relevance of proposal.

Activities for Plant Science/Genomes within the Spanish Biotechnology Program also include:

- Promotion and support of strategic research platforms (thematic networks):
 - Plant Biotic stress network
 - Plant Abiotic stress network
 - Plant virology network
 - Plant development and cell differentiation network
 - Plant Symbiotic-interactions network
 - Wood network
 - "Plant genomics network"
- Financial complementation to ongoing projects within FP5.
- Financial complementation for meeting and congress organization.
- Finance specific scientific initiatives (e.g. CATMA).

Strategic Action on Genomic and Proteomic within the Spanish MCyT:

The goals of this strategic action, specifically related to Plant Genomics are to:

- Stimulate and sustain multidisciplinary research (integrated projects) to exploit the full potential of genome information to underpin applications to agriculture.
- Generate expertise and know-how in the field of plant genome analysis.
- Generate fundamental knowledge and basic tools for functional genomics in plant science.

The organization of this strategic action:

One call per year.

Duration of projects: 3 years *maximum*.

Conditions: Integrated projects is a must (with *minimum* of 5 different labs or institution involved in each project).

Evaluation: Expert/reviewers from outside + panel of experts.

Budget: 12 Million Euros.

Related to Plant Genomes Major Emphasis is Given to:

Development of global genomic approaches for model and not model plant species. This strategic objective is to foster the basic understanding of genomic information by developing tools and resources (including Bioinformatics) needed to decipher the function of genes and gene products.

Analyze the genomes of important crops for the Spanish agriculture. This strategic objective includes the generation of genomic tools, technology and functional approaches for the identification of agronomic and quality-related traits for later molecular breeding in specific crops.

Plant Genomes Prioritized within the Program Include:

- Model organisms (Arabidopsis, Rice)
- Crops (Tomato, Strawberry, *Vitis*, *Citrus*, *Cucumis*, *Olea*, ...)

Results of the First Initiative for Plant Genomics in Spain (2002):

Genomic approaches in Arabidopsis (3 Million Euros)

*Genomic approaches in Citrus (1 million Euros) + 0.7
Milion Euros from Regional government*

Genomic approaches in straberry (0.5 Million Euros)

*"Genomic approaches in Vitis (5 Million Euros) prioritized
within the Sectorial Plan from I.N.I.A. (MCyT)".*