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## RESEARCH CENTRE FOR PLANT BIOTECHNOLOGY AND GENOMICS (CBGP)

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# RESEARCH CENTRE FOR PLANT BIOTECHNOLOGY AND GENOMICS (CBGP)



The Research Centre for Plant Biotechnology and Genomics (CBGP) is the result of the joint action between Universidad Politécnica de Madrid (UPM) and the Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria (INIA).

CBGP works with a double aim: to contribute to the sustainable development in the agricultural, forest and environmental sectors through knowledge-based bio-economy (KBBE) and to increase research and production competitiveness in these areas.

Among its specific targets are: knowledge creation on genomics and biotechnology of plants and organisms interacting with them; development of new technologies and tools for functional analysis, new products and processes relevant to the productive sectors, and transmission of information and development of education programmes for scientists and technicians.



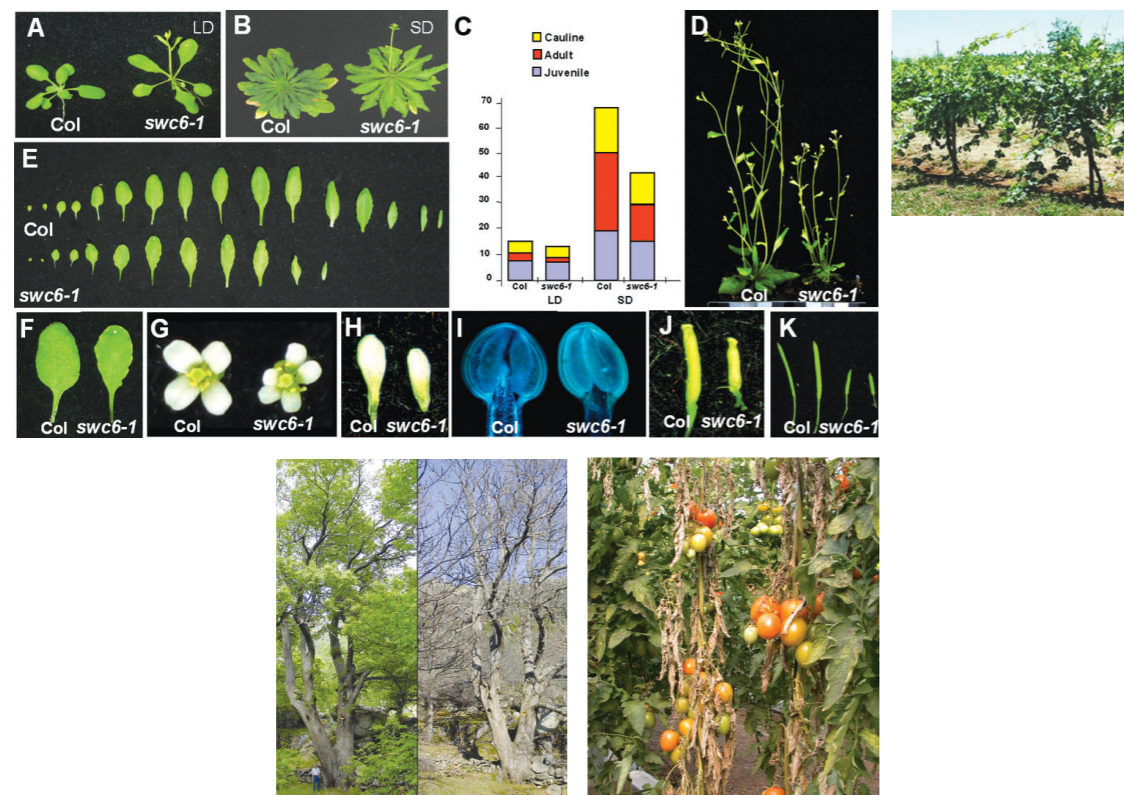
# RESEARCH CENTRE FOR PLANT BIOTECHNOLOGY AND GENOMICS

## RESEARCH LINES



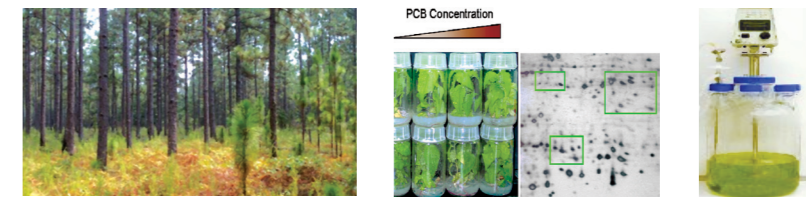
### PLANT DEVELOPMENTAL BIOLOGY

- Winter Dormancy and cold acclimation in woody plants
- Seed biotechnology
- Plant defence genes
- Regulation of flower development
- Phase transitions in plant development
- Regulation of lateral root development
- Grape functional genomics



### FUNCTIONAL GENOMICS

- Stress tolerance and metabolic performance in trees
- Ion homeostasis and salinity tolerance in plants
- Regulatory networks in seeds: integration of development, metabolism and environmental conditions
- Long-distance signaling in response to biotic and abiotic stress



### PLANT-MICROORGANISM INTERACTION

- Plant innate immunity and resistance to necrotrophic pathogens
- Reactive oxygen species and defence response in plants
- Plant-virus interaction
- Plant virus biotechnology
- Phytopathogenic bacteria
- Interactions between symbiotic bacteria and plants

