



**FORESTERRA**

Enhancing Forest RESearch in the MediTERRanean  
through improved coordination and integration



Instituto Nacional de Investigación  
y Tecnología Agraria y Alimentaria

# INIA

# Centro de Investigación Forestal

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## CIFOR - Forest Research Centre

Forest ecology and genetics

Silviculture and forest management

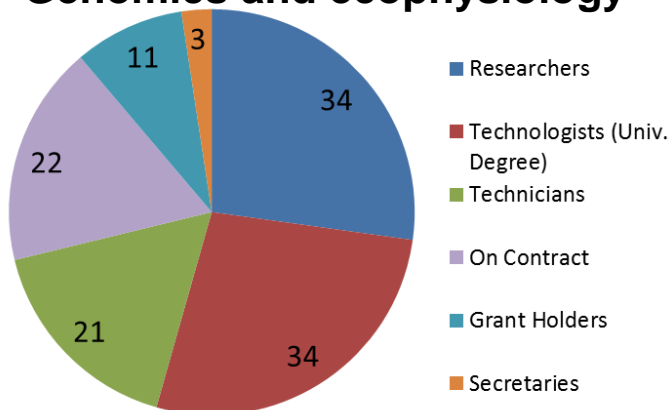
Forest Products

### 13 Research Groups

Populations genetics and evolution  
 Applied Forest Ecology  
 Climate change and forest decline  
 Genomics and ecophysiology

Silviculture  
 Forest fires  
 Remote sensing  
 Forest pathology  
 Environmental Economics

Wood and cork technology  
 Cellulose and paper  
 Forest Chemistry





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# Thematic areas in R&D

- Adaptation and evolution of forest species.
- Forest ecosystem dynamics and processes.
- Forest growth, silviculture and multipurpose forest management.
- Planted Forests and agroforestry.
- Forest defence against fires, diseases, contamination, and climate change.
- Forest Products.



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# CIFOR – R&D Activities in 2012

## R&D projects

50 Spanish R&D projects (2 million €/yr).

10 European R&D projects (0.5 million €/yr).

## Results

124 journal papers (96 SCI), 35 books or chapters.

## Training

MSc and PhD courses (Technical U. Madrid, U. Valladolid, U. Alcalá de Henares).

12 PhD students, 3 PhD Thesis finished in 2012.

## Knowledge transfer, assessment, collaboration and cooperation

Contracts and agreements with administrations or enterprises (1 million €).

Participation or coordination of Standardisation Committees, National Advisory Committees, Research Networks, Networks of Excellence, COST actions, and international organisations (EFI/EFIMED, IUFRO, EUFORGEN, CGIAR -Bioversity International, CIFOR, ICRAF).

## Research infrastructures

### Laboratories

- Cellulose and paper.
- Structural wood (ISO 17025).
- Mechanical small-scale wood tests.
- Wood physics.
- Wood protection.
- Cork.
- Forest Chemistry.
- Molecular genetics.
- Genomics.
- Ecophysiology.
- Ecology.
- Biometry and forest growth.
- Dendrology.
- Forest pathology.
- Forest fires.
- Remote sensing.
- Geographic Information systems.

We do not have a specific policy of access to these infrastructures by other national/international institutes.

We do not have any experience in mutual opening and transnational access of infrastructures



### Experimental Sites

- *Climatic Chambers / Phytotrons / Greenhouses*
- *GENFORED- Forest Genetic trial network.*
- *SEGEFORS- Landscape laboratories for sustainable forest management.*





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## Transnational collaborations (European and international)

### *Networks:*

CIFOR-INIA participate in Evoltree program (we are national coordinators of EUFORGEN).  
LAFORGEN, SAFORGEN, Main topic: Forest Genetics

### *National Collaborations (as JRU)*

Sustainable Forest Management Research Institute UVa-INIA  
JRU with universities (UPM, UAH), technological centres (CTFC), and regional research  
stations (CIFA-Lourizan)

### *International Collaborations*

**CATIE, INFOR Chile, INTA-Argentina**

### *Direct outputs from this collaboration*

Training (International Courses, PhD Studies, Participation in projects, mobilities)



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## Transnational collaboration

### **INIA-CIFOR has interest in creating Transnational Joint Research Units**

- We are looking for a TJRI especially in the fields of
  - Forest Evolution and Ecology,
  - Management of Mediterranean forests.

### **The positive outputs we expect from this type of collaboration are**

- Broader scope of our research at international level.
- Increased mobility of permanent staff and PhD students.
- Access to different research infrastructures.
- Increased scientific competitiveness and impact in the forest sector.

### **Possible drawback**

- Constraints by the institutions.
- Lack of resources and funding to have an impact.