

# DAFNE

Department of Agriculture and Forest sciENcEs





# VITERBO PROVINCE



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## Departments

1. **Agriculture and Forest scieNcEs (DAFNE)**
2. Ecological and Biological Sciences (DEB)
3. Economics, Engineering, Society and Business Organization (DEIM)
4. Innovation in Biological, Agro-Food and Forest Systems (DIBAF)
5. Linguistic and Literary, Historical, Philosophical and Legal Studies (DISTU)
6. Humanities, Communication and Tourism (DISUCOM)



**DAFNE** is a lively teaching and research community with an outstanding reputation.

The Department's academic staff (about 50 people) teach and research a wide range of themes and topics, covering agriculture, forest and natural sciences and agro-food biotechnology.

Department's researchers and professors are supported by technical and administrative staff (about 30 people), and may rely on cutting-edge laboratories and on a modern agroforestry teaching / experimental / demonstrative farm.



In 2017, the quality of research at **DAFNE** placed the department on a top list of 120 Italian Departments of Excellence.

This achievement will allow the **DAFNE** to get government extrafunding over the next 5 years (8 million Euros), which will be invested to carry out a project of research and teaching improvement entitled "Sustainability of Mediterranean agricultural and forest systems in the context of global change" (SAFE-Med).





# SAFE-Med funding

- Personnel (permanent staff)
- Infrastructure (classrooms, lab equipments, etc.)
- PhD positions + research funds
- Post-doc positions
- Erasmus (outgoing & incoming)
- Workshops
- Summer courses



## UNDERGRADUATE (~ 800 students)

1. Agriculture and environmental sciences
2. Forest and nature sciences
3. Mountain sciences (Rieti)

## GRADUATE, MASTER (~ 250 students)

1. Agriculture and environmental sciences
2. Environment and forests conservation and restoration
3. Biotechnologies for agro-food safety and quality

## GRADUATE, PhD (~ 50 students)

1. Plant and animal science
2. Engineering for energy and environment
3. Economics, management and quantitative methods
4. Ecology and sustainable management of environmental resources



# RESEARCH

- 6 main themes and several topics
- Main production chains: cereals, olive, nuts, viticulture, horticulture, dairy ruminants





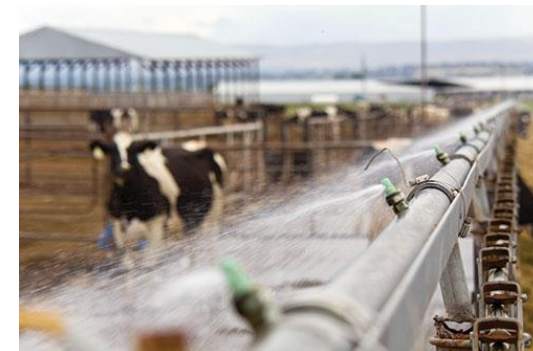
## 1. NATURE, FORESTS AND SUSTAINABLE USE OF AGRO-SILVO-PASTORAL ECOSYSTEMS

1. Water and soil use
2. Biodiversity
3. Extensive livestock farming and wildlife management and hunting
4. Forest restoration
5. Historical ecology and naturalness
6. Organic farming
7. Plant protection and monitoring of alien species
8. Green economy
9. Bioindicators



## 2. AGRICULTURE AND FOREST SYSTEMS AND CLIMATE CHANGE

1. Impact, adaptation and mitigation: crops
2. Impact, adaptation and mitigation: livestock
3. Impact, adaptation and mitigation: forests
4. Impact, adaptation and mitigation: economic sustainability, business resilience and agricultural and forest policies



## 3. INNOVATIONS IN THE AGRICULTURAL AND FOREST SECTORS FOR ENERGY SUSTAINABILITY

1. Energy potential from agroforestry biomass
2. Prototype systems for energy conversion
3. Valorization of biomass





## 4. VALORIZATION OF AGRICULTURAL AND FORESTRY PRODUCTION: QUALITATIVE ASPECTS

1. Nutraceutical activity of natural organic substances
2. Nutritional properties of cereals
3. Nutritional properties of fruit
4. Evaluation and improvement of the nutritional properties of plants
5. Nutraceutical quality of milk
6. Enhancement and nutritional properties of bee products
7. Quality of wood productions
8. Low impact food processing and preservation



## 5. AGRICULTURE AND ENVIRONMENTAL BIOTECHNOLOGIES

1. Plant biotechnologies
2. Animal biotechnologies
3. Agro-industrial biotechnologies



## 6. ADVANCED AGRICULTURE AND FORESTRY TECHNOLOGIES

1. Precision agriculture: herbaceous crops and horticulture
2. Precision agriculture: arboreal plants
3. Agro-forestry nursery
4. Precision livestock farming
5. Agricultural mechanization and work safety





Properties AGRICULTURAL Energy Mitigation  
Soil natural nursery Green Arborea) ALORIZA O Agro.industrial products  
Wildlife biomass Alien QYALITATIVE ADVANCED Evaluation  
Herbaceous Improvement Plant SECTORS productions  
ASPECTS USE horiculture I t r i p a C t Animal Bioindicators CLIMATE  
Milk acrivty restoranon Wood FORESTRY  
SUSTAINABILITY  
economy cereals Low Business species  
Economie Crops S:USTAINABLE FORESTS F utritlona }  
Ltvestock Biodiversity M frwt NATURE ECOSYSTEMS F safety  
Enhancement anagement preservan CHANGE Orest  
converSion Monitoring Water Agro-forestry M hin  
Historical Prototype hunting policies I r I reCISIOn ac ery Potential  
PRODUCTION plants Agroforestry organic Adaptation  
SYSTEMS substances TECNHNOLOGIES n. 1. <Halty ENVIRONMENTAL.  
Ecolo Resilience naturalness

## **Street and postal address**

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## **Web site**

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## **Facebook**

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# MANY THANKS FOR YOUR ATTENTION

