



**LIFE4FIR:** Decisive in situ and ex situ conservation strategies to secure the critically endangered Sicilian fir, *Abies nebrodensis* **LIFE18 NAT/IT/000164**

# Some notes about US

Universidad de Sevilla- RNM-204





- University of Seville, an institution with more than five centuries of history
- A extensive university community (made up of more than 70,000 students, 4,400 professors, and 2,400 service and administrative professionals)
- Coexisting and committed to its city, Seville, its Campus , with 25 Centres, has facilities which are constantly growing and modernizing.
- Research activity is carried out in the heart of the Departments, University Institutes, and Research Centers; and is supported by public and private funding.
- More than 400 research groups, almost 4,500 researchers and close to 7,500 yearly scientific publications with international impact.
- The University ranks third in Spain as far as number of patents generated on a national level, and is the founder of many Knowledge-Based Businesses.





## Faculty of Biology

## Department of Plant Biology and Ecology

**Research Group:** Reproductive Ecology of Plants (RNM-204)

### Research lines:

- Conservation
- Ecological genomics
- Plant evolution
- Plant reproduction
- Plant- environment interaction
- Phylogeny and phylogeography



## Some studies on *Abies* and other gymnosperms carried out by the team

### Density Effect on the Fruit-set, Seed Crop Viability and Seedling Vigour of *Abies pinsapo*

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Departamento de Biología Vegetal y Ecología, Universidad de Sevilla, Apdo. 1095, 41080 Sevilla, Spain

### Effects of tree architecture on pollen dispersal and mating patterns in *Abies pinsapo* Boiss. (Pinaceae)

JOSE M. SÁNCHEZ-ROBLES,\* JUAN L. GARCÍA-CASTAÑO,\* FRANCISCO BALAO,\*\* ANA TERRAB,\* LAURA NAVARRO-SAMPEDRO,† KARIN TREMETSBERGER§ and SALVADOR TALAVERA\*

### Genetic diversity at chloroplast microsatellites (cpSSRs) and geographic structure in endangered West Mediterranean firs (*Abies* spp., Pinaceae)

Anass Terrab<sup>1,2</sup>, Salvador Talavera<sup>2</sup>, Montserrat Arista<sup>2</sup>, Ovidiu Paun<sup>1</sup>, Tod F. Stuessy<sup>1</sup> & Karin Tremetsberger<sup>2</sup>

### Pollen Dispersal Capacity and Pollen Viability of *Abies pinsapo* Boiss.

By M. ARISTA and S. TALAVERA

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### The structure and dynamics of an *Abies pinsapo* forest in southern Spain

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### Reproductive isolation of two sympatric subspecies of *Juniperus phoenicea* (Cupressaceae) in southern Spain

M. ARISTA, P. L. ORTIZ, and S. TALAVERA

### Gender Expression in *Abies pinsapo* Boiss., a Mediterranean Fir

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### Sex Ratio and Reproductive Effort in the Dioecious *Juniperus communis* subsp. *alpina* (Suter) Čelak. (Cupressaceae) Along an Altitudinal Gradient

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### LOW REPRODUCTIVE SUCCESS IN TWO SUBSPECIES OF *JUNIPERUS OXYCEDRUS* L.

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### GENETIC DIVERSITY AND POPULATION STRUCTURE IN NATURAL POPULATIONS OF MOROCCAN ATLAS CEDAR (*CEDRUS ATLANTICA*; PINACEAE) DETERMINED WITH CPSSR MARKERS<sup>1</sup>

<sup>1</sup> OVIDIU PAUN,<sup>2</sup> SALVADOR TALAVERA,<sup>3</sup> KARIN TREMETSBERGER,<sup>2</sup> MONTSERAT ARISTA,<sup>3</sup> AND TOD F. STUESSY<sup>2</sup>

### The Strait of Gibraltar as a major biogeographic barrier in Mediterranean conifers: a comparative phylogeographic survey

J. P. JARAMILLO-CORREA,\*+ D. GRIVET,\* A. TERRAB,†§ Y. KURT,¶ A. I. DE-LUCAS,\*\*+ N. WAHID,‡‡ G. G. VENDRAMIN§§ and S. C. GONZÁLEZ-MARTÍNEZ\*+†



## Involvement of US in Life4Fir

### A. PREPARATORY ACTIONS

**A1** Protocol setup to define genetic traits of *Abies nebrodensis* population, and to improve its propagation and conservation at low and cryogenic temperatures of selected tissues and organs

### C. CONSERVATION ACTIONS

**C2** Conservation of genetic purity of *Abies nebrodensis* and improvement of its genetic diversity.

**C7** Replication. Implementation action dedicated to the results' transfer and replication during the project.

### E. PUBLIC AWARENESS AND DISSEMINATION OF RESULTS

**E2** Tourists visits, workshops, fairs, networking, Institutions and policy makers involvement, awarenessrising.

### F. PROJECT MANAGEMENT



## US Research Unit:

### Scientific Team:

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