

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



#### LIFE18 NAT/IT/000164 'LIFE4FIR'





FRANCE

Bay of

**SPAIN** 

Seville

- 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

### LIFE18 NAT/IT/000164 'LIFE4FIR'

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

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



MONTSERI

Departamento de Biología V

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

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>

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

Montserrat Arista<sup>1</sup>

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

Gender Expression in Abies pinsapo Boiss., a Mediterranean Fir

MONTSERRAT ARISTA and SALVADOR TALAVERA

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

LOW REPRODUCTIVE SUCCESS IN TWO SUBSPECIES OF JUNIPERUS OXYCEDRUS L.

Pedro L. Ortiz, Montserrat Arista, and Salvador Talavera

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

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

Pollen Dispersal Capacity and Pollen Viability of Abies pinsapo Boiss.

By M. Arista and S. Talavera

Departamento de Biología Vegetal y Ecología, Universidad de Sevilla, Apartado 1095, E-41080 Sevilla,

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

M. Arista, P. L. Ortiz, and S. Talavera

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

PEDRO LUIS ORTIZ, MONTSERRAT ARISTA and SALVADOR TALAVERA

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

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

AND TOD F. STUESSY<sup>2</sup>

<sup>4</sup> Ovidiu Paun,<sup>2</sup> Salvador Talavera,<sup>3</sup> Karin Tremetsberger,<sup>2</sup> Montserrat Arista,<sup>3</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\*††

Kick Off meeting, Palermo 2 -3 October, 2019





#### 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:**

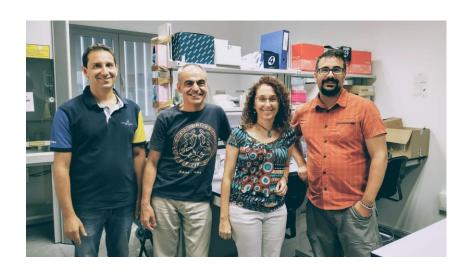
#### Scientific Team:

Montserrat ARISTA (marista@us.es)

Anass TERRAB (anass@us.es)

Pedro Luis ORTIZ (plortiz@us.es)

Francisco J. BALAO (fbalao@us.es)



Administrative personel: Concha Rodríguez (crodriguez@us.es)

Secretariado de Transferencia del conocimiento y Emprendimiento

Phone: +34 954488121

Fax: +34 954488117

Internet: http://otri.us.es