













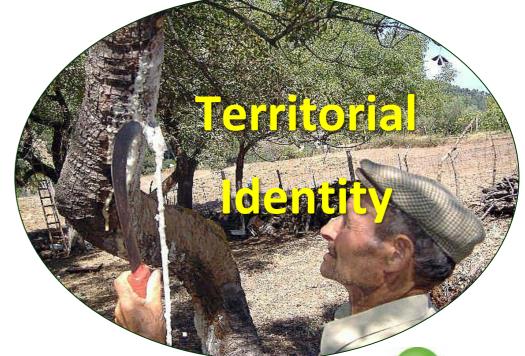
Local crop varieties:

integral part of plant genetic diversity

economic benefits

biological value

historical knowledge







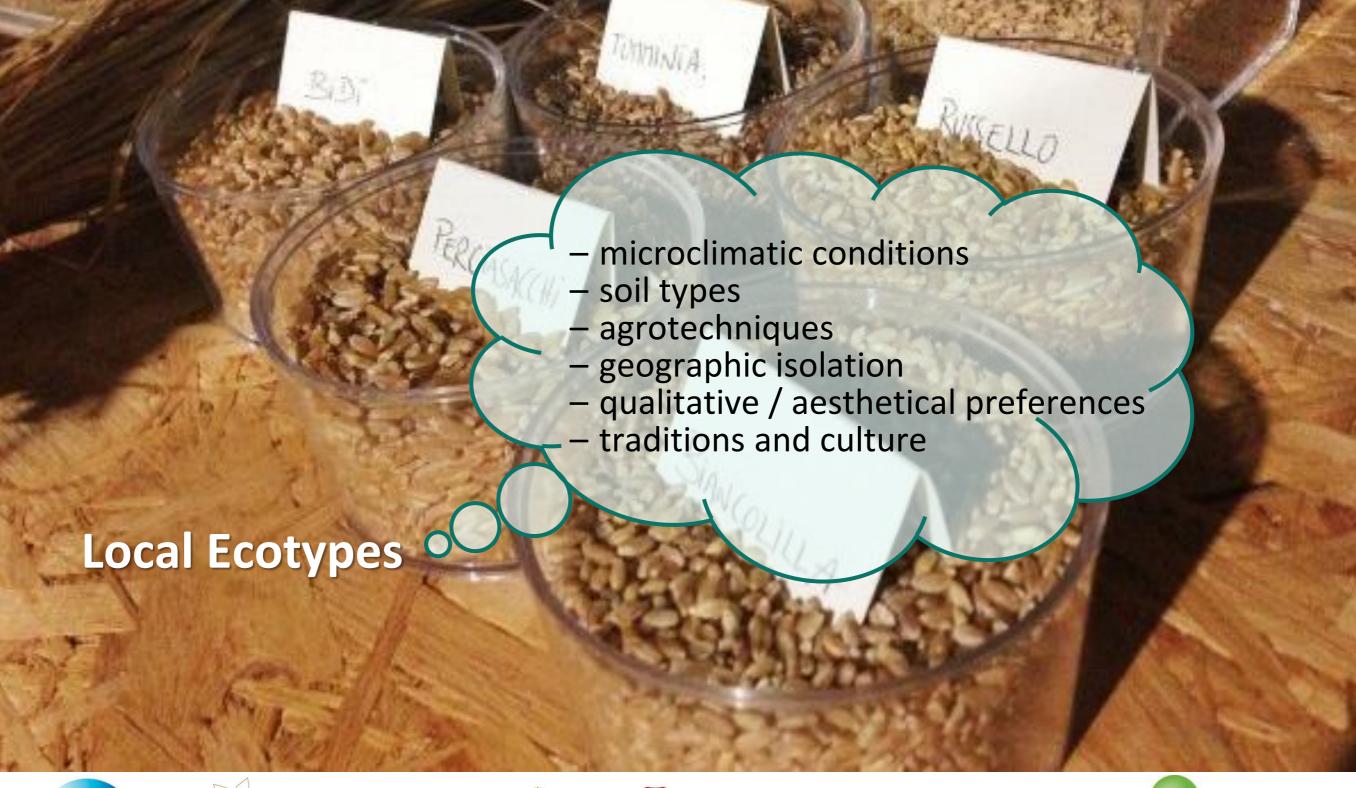








2nd Mediterranean Plant Conservation Week "Conservation of Mediterranean Plant Diversity: Complementary Approaches and New Perspectives"







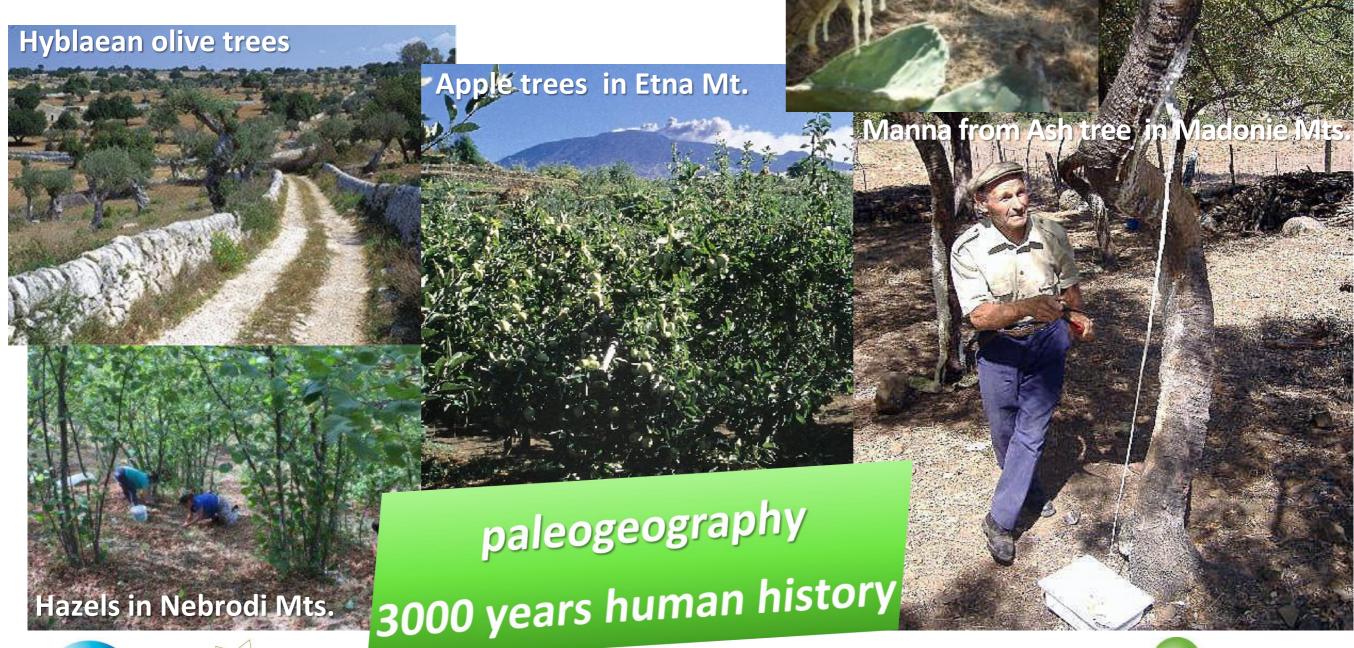






"Conservation of Mediterranean Plant Diversity: Complementary Approaches and New Perspectives"







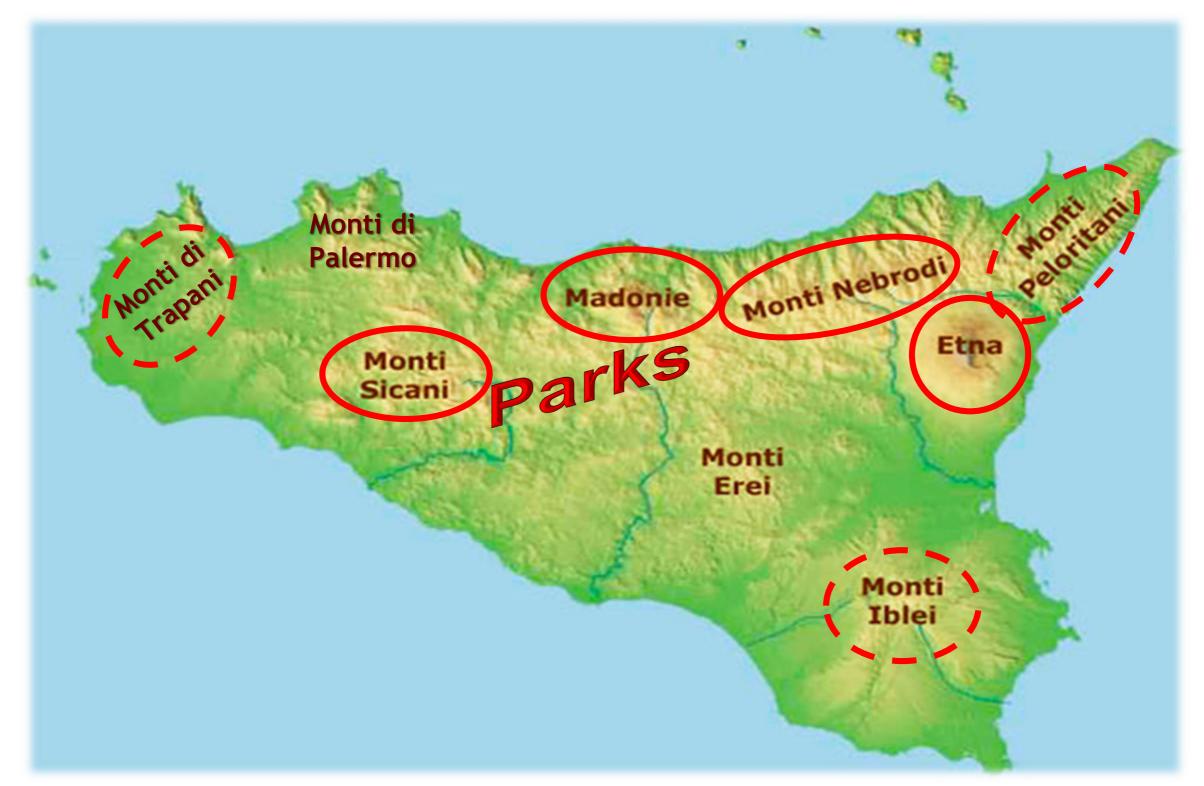








2nd Mediterranean Plant Conservation Week "Conservation of Mediterranean Plant Diversity: Complementary Approaches and New Perspectives"



























Relationships with territorial Administrations

**Agreements with Regional Parks' Authorities** 

**Research projects** 

**Conservation and valorization** 











"Conservation of Mediterranean Plant Diversity: Complementary Approaches and New Perspectives"

## Old fruit trees heritage: Madonie Mts.

- Inventory
- Assessment



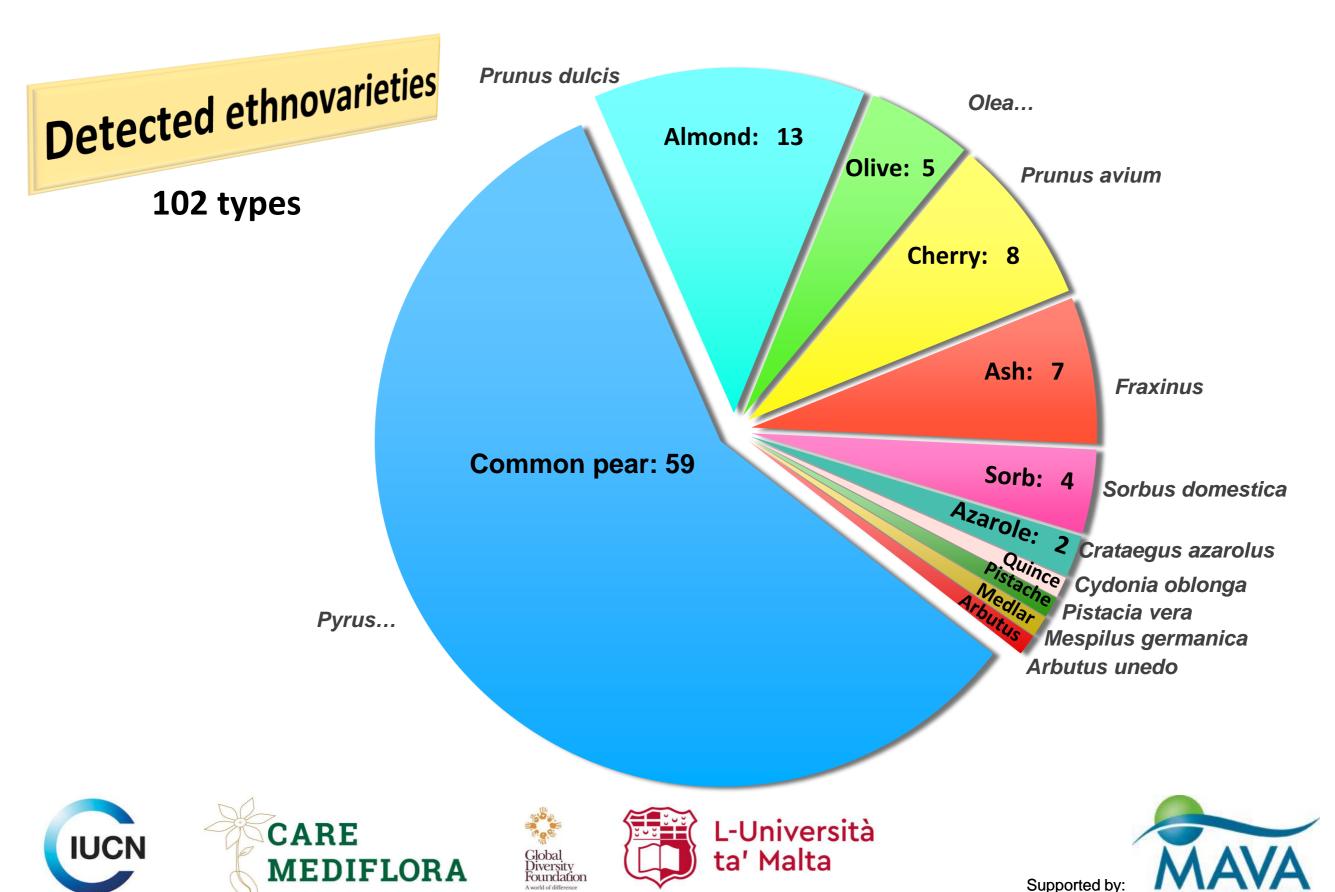




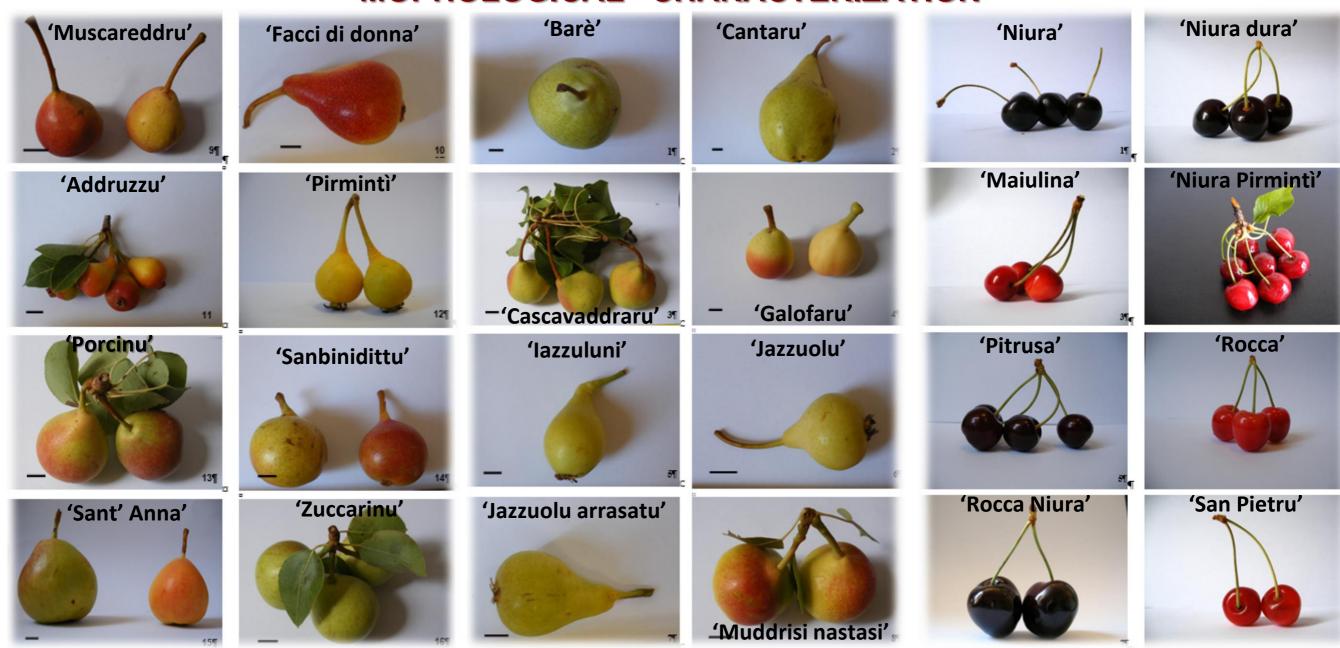








#### MOPHOLOGICAL CHARACTERIZATION



Fruits of Pyrus communis cvs. Bar 1 cm

Fruits of Prunus avium cvs.



Schicchi R., Marino P., Saporito L., Di Noto G. & Raimondo F.M. 2008. Catalogo pomologico degli Antichi fruttiferi di Sicilia. Università di Palermo









# IN VITRO MICROPROPAGATION



Explants of *Pyrus communis* cvs. 30 days and 60 days (circle)

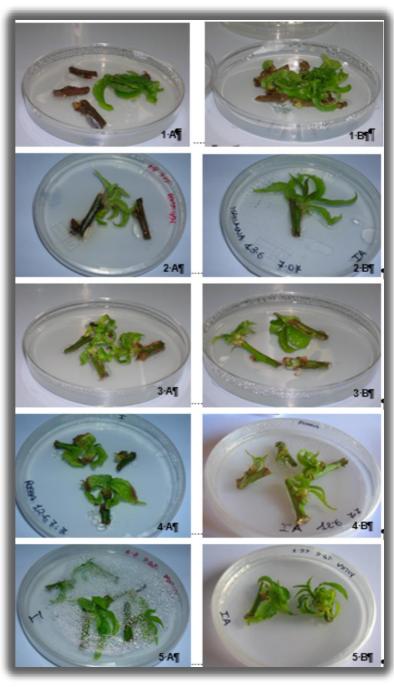








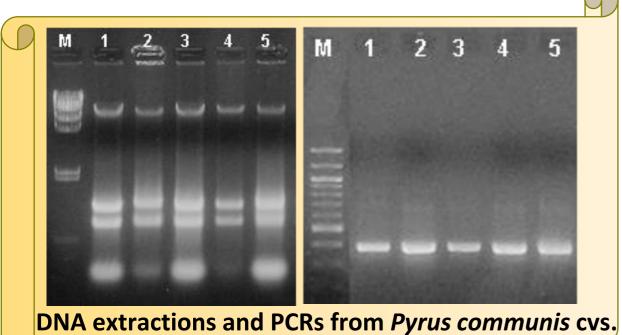


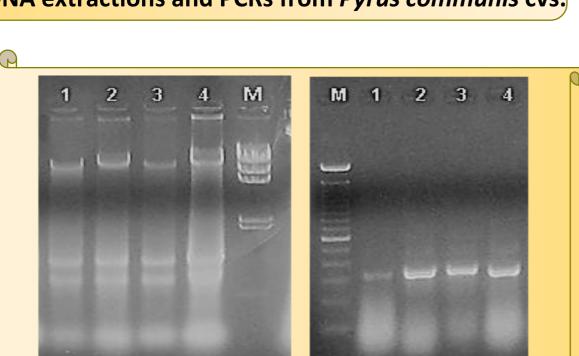


explants of *Prunus avium* cvs. on MP (sx) and WBM (dx)

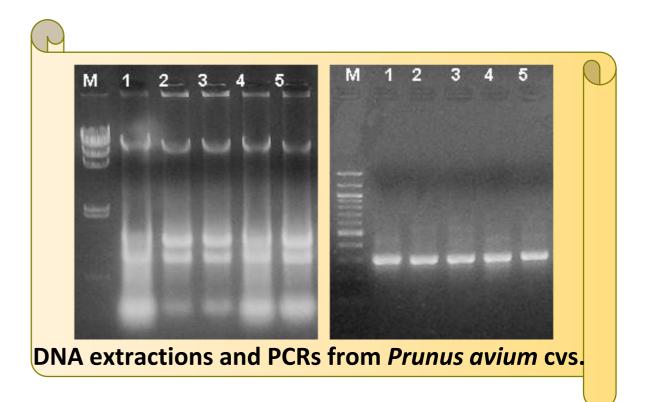


"Conservation of Mediterranean Plant Diversity: Complementary Approaches and New Perspectives"





DNA extractions and PCRs from Fraxinus ornus cvs.



## GENETIC CHARACTERIZATION

ITS - ISSR













Sorbus madoniensis Raimondo et. al.



Sorbus busambarensis Castellano et al.







Pyrus ciancioi P. Marino et al. rootstock for Pyrus communis cvs.



Pyrus vallis-demonis Raimondo & Schicchi







Malus crescimannoi Raimondo probable CWR of Malus domestica



Pyrus castribonenis Raimondo, Schicchi & Mazzola

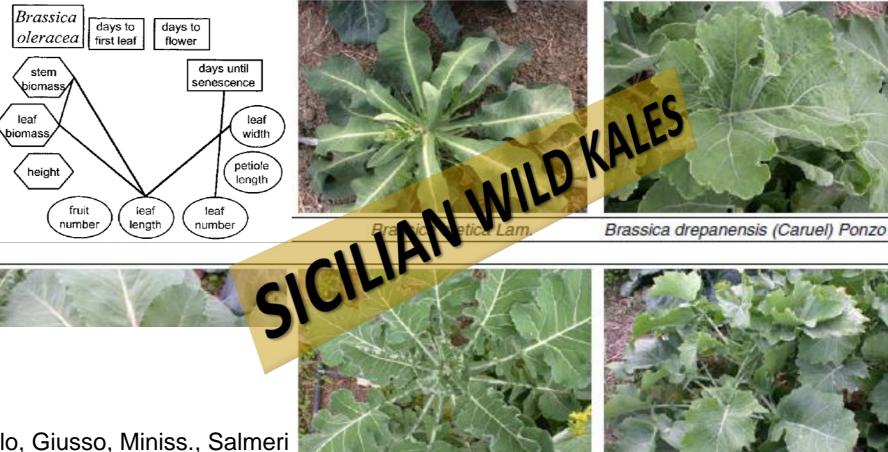


"Conservation of Mediterranean Plant Diversity: Complementary Approaches and New Perspectives"

### Brassica oleracea group

### 12 endemic taxa

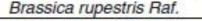
- B. incana Ten.
- **B.** insularis Moris
- B. macrocarpa Guss.
- B. raimondoi Sciandr., C. Brullo, Brullo, Giusso, Miniss., Salmeri
- **B.** rupestris Raf.
  - ssp. rupestris
  - ssp. hispida Raimondo & Mazzola
- B. trichocarpa C. Brullo, Brullo, Giusso & Ilardi
- B. villosa Biv.
  - ssp. villosa
  - ssp. bivoniana Raimondo & Mazzola
  - ssp. brevisiliqua Raimondo & Mazzola
  - ssp. drepanensis Raimondo & Mazzola
  - ssp. tinei (Lojac.) Raimondo & Mazzola



Brassica incana Ten.

Brassica macrocarpa Guss.







Brassica villosa Biv.











## CONSERVATION AND VALORIZATION OF NEBRODI MTS. BIODIVERSITY















### Germplasm collection fields



















### **Local Beans' Collection** 65 varieties:

58 climbing – 7 dwarf



**FASOLA DEL PRETE** PRIEST'S BEAN



CARRAZZU CRIOTO **BEANPOLE OF UCRIA** 



OCCHIO DI PERNICE **EYE OF PARTRIDGE** 



VASOLU NIVURU NANU **DWARF BLACK BEAN** 



VASOLU NANU DELL'OCCHIO **DWARF BEAN WITH EYE** 



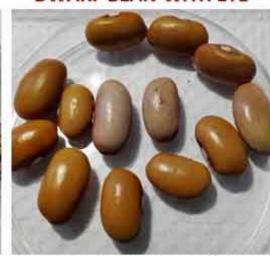


CRUCCHITTU SETTEMBRINU FASOLU BAVALUCI DI TRIVOTI VASOLU DI PASTA BIANCU









VASOLU NANU DI CASTANIA























