

The Italian National program to implement the International FAO Treaty on Plant Genetic Resources for Food and Agriculture



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On the year 2004, the Italian Government ratified the FAO International Treaty on Plant Genetic Resource (PGR) that has the aim of conservation and sustainable use of plant genetic resources for food and agriculture and the fair and equitable sharing of benefits derived from their use, in armony with the Convention on Biological Diversity, for sustainable agriculture and food security. To implement the Treaty, the Ministry of Italian Agriculture and Forestry Policy entrusted the CRA (Agriculture Research Council), to develop the necessary actions, through the coordination of the ISF of Rome and the activity of seventeen research Institute.

Involved Research Institutes: Agronomy of Bari, Citrus of Acireale, Cereals of Rome, Fodder crops of Lodi, Industrial crops of Bologna, Flower of Sanremo, Fruit growing of Rome, Olive growing of Cosenza, Olive-oil tecnology of Pescara, Viticulture of Conegliano Veneto, Vegetables of Pontecagnano, Tobacco of Scafati, Sylviculture of Arezzo, Forest settlement of Trento, Zoology of Florence Plant genetics of Bari belonging to CNR .

The main targets of the project are:
To establish *ex situ* and *in situ* collections
Inventory of the PGR for food uses
Genetic characterization of the PGR accessions
Evaluation of the risk of genetic erosion
To promote actions for the valorization.

The main expected results are:

Conservation of the autochthonous varieties *in situ* and *ex situ* collections for genoma studies and utilization

ISFruitculture, Rome: Germoplasm collection established in the year 2001 in Rome, where are kept 4546 accessions (1883) indigenous



Inventory of the fruit germoplasm conserved in by the ISF

Inventory of the germoplasm conserved by the CRA Institutes



IS for Vegetables, Pontecagnano, Sa.: three *Asparagus* spontaneous species of the Mediterranean area utilized to introgress *Puccinia asparagi*, *Sthemphylium vesicarium*, salt and drought resistance into *A. officinalis* L..



Keep the existing agricultural biodiversity under cultivation

ISFruitculture, Rome
Olea oleaster resistant to drought and *Verticillium*



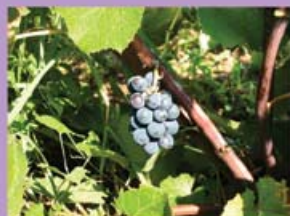
ISFlowerculture Sanremo
Arbutus andrachne
Spontaneous plant of the Mediterranean region, growing from the Atlantic coast up to Ireland.



IS for Fodder crops, Lodi: *Trifolium pratense* L. from Latium (left side) characterized by ealry blooming and abundant flowers, from Sardinia (centre) characterized by prostrate habitus) and a vigorous ecotype from Piedmont (right side).



ISViticulture, Conegliano V.
Vitis vinifera ssp. *sylvestris*



ISFruitculture, Rome
P. terebinthus

Monoecous form for horticulture breeding programme



ISFruitculture, Rome
Poncirus trifoliata
resistant to the virus "Tristeza" and cold tollerant



ISFlowerculture Sanremo
Limonium mazarae
endemic wild species collected in the west coast of Sicily

Producing of basic propagating material



Cloned selections of *P. pyraeaster silvestris* (resistant to soil high calcium content) and *Prunus spinosa* (drought resistant)

