

Malta

Gatt M.

in

D'Onghia A.M. (ed.), Menini U. (ed.), Martelli G.P. (ed.).
Improvement of the citrus sector by the setting up of the common conservation strategies
for the free exchange of healthy citrus genetic resources

Bari : CIHEAM

Options Méditerranéennes : Série B. Etudes et Recherches; n. 33

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Malta

Project team

- Mrs. M. GATT, National Project Representative, Ministry of Agriculture and Fisheries, Valletta

Importance of citriculture

Citrus is present in the island since many years mainly in gardens. Most of the orchards are cultivated with local varieties and sweet orange is the most distributed.

Citrus distribution map



Citrus varieties

Species/Varieties	Cultivated areas	Area (Ha)
Oranges	Siggiewi, Xaghra, Zurrieq, Naxxar, Buskett	140
- Common and Valencia		
- Navel		
- Blood		
- Acidless		
- Perpetual (local)		
Mandarins & Mandarin-like		
Lemons		
Grapefruit		
Others		

Citrus phytosanitary problems

Pathogens		Diseases		References
Virus and virus-like				
CVV	X	Inf. Variegation/Crinkly leaf	X	Unpublished
CiLRV		Leaf rugose	X	Unpublished
CPsV	X	Psorosis	X	Unpublished
SDV		Satsuma dwarf		
CTLV		Tatterleaf/Citrange stunt		
CTV		Tristeza		
CVEV		Vein enation/Woody gall		
		Concave gum	X	Unpublished
		Cristacortis		
		Impietratura		
CEVd		Exocortis		
CCaVd		Cachexia		
CVds		Citrus viroids		
		Chlorotic dwarf disease		
		Gummy bark		
Fungus				
Phytophthora sp		Phytophthora gummosis	X	Unpublished
Fusarium sp, Roselinia sp		Root rot		
Phoma tracheiphila		Mal secco		
Bacteria and Bacteria-like				
Pseudomonas syringae		Blast and Black pit		
X. axonopodis pv citri		Citrus canker		
Candidatus L. asiaticus		Greening		
Candidatus L. africanum				
Nematodes				
Tylenchulus semipenetrans				
Pratylenchus vulnus				
Phytoplasmas				
Spiroplasma citri		Stubborn		
		Witches' broom		

X= present in the country

Citrus programmes

Programmes	Proposed	Running	Legislation
Clonal and sanitary selection	Cooperation project Italy-Malta	1997-2000	
Monitoring, eradication and control of quarantine pests	Cooperation project Italy-Malta	1997-2000	
Certification	Cooperation project Italy-Malta	1997	
Quarantine			National law
Others			

Public and private institutions working in citrus

Institutions or others	Location	Type of activity	Personnel		Facilities
			Number	Qualifications	
Public					
Plant health Division, Ministry of Agriculture and Fisheries	Valletta	Certification and quarantine	3	Officers, researchers and technicians	Diagnosis lab. screenhouse

Financial Table

Project steps	Facility/instruments/activity	Units	Cost (€)
Inventory	GPS	1	5.000
	GIS	1	8.000
Conservation for characterization	Planting and equipments for the conservation field	0.2	5.000
Genetic and agronomic characterization	Laboratory equipments and running materials	1	80.000
Physiological WUE characterization	Laboratory equipments and running materials	1	30.000
Sanitary assessment	Laboratory equipments and running materials	1	85.000
	1 Indexing greenhouse, equipments (benches, shade etc...) and running materials	50 m ²	50.000
	1 Insect-proof greenhouse	50 m ²	20.000
Sanitation	Equipments for <i>in vitro</i> laboratory		0
	1 thermotherapy chamber		0
	1 conditioned greenhouse		0
Conservation <i>in vitro</i>	Equipments for <i>in vitro</i> laboratory	1	20.000
Conservation <i>in vivo</i> and assessment of pomological traits	1 Insect-proof greenhouse	100 m ²	45.000
Training	Short-courses		20.000
	Stages		30.000
	Technical visits		20.000
	Travel expenses		10.000
Missions and part time personnel			30.000
Supply	Transport vehicle		0
	Books, publications, CD		3.000
	Personal computer and printer	1	3.000
General expenses			46.400
TOTAL			510.400

Agreement

Official country agreement to the project on "Improvement of the citrus sector by setting up common conservation strategies for the free exchange of healthy citrus plant genetic resources"

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MALTA

MINISTRY OF
AGRICULTURE AND FISHERIES

Departament tal-Agrikultura

Department of Agriculture

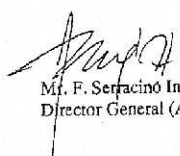
Dr. A.M. D'Oughla
Istituto Agronomico Mediterraneo (Bari)

2nd April 2001

Re: Improvements of the Citrus sector in the Mediterranean by the setting up of common conservation strategies for the free exchange of healthy citrus plant genetic resources.

Reference is being made to your invitation to participate in the above-mentioned project.

The Ministry for Agriculture and Fisheries of Malta is willing to take part in the project and is nominating Ms. Marica Gatt (Scientific Officer) for participation.


Mr. F. Serracino Inglott
Director General (Agriculture)

