

Preliminary results of PHASE 2 works

Partner 6 – DBUC (Catania, Italy)

DIPARTIMENTO DI BOTANICA (DBUC) - UNIVERSITÀ DI CATANIA

Materials and methods

Taxon	Date	Population	Altitude
<i>Pinus halepensis</i>	13/11/2006	R.N.O. Pino d'Aleppo (Vittoria) S Sicily	37 m
<i>Erica arborea</i>	29/07/2005	Colonia Principe di Piemonte (Messina) N Sicily	583 m
<i>Erica arborea</i>	11/05/2007	Calatafimi (Trapani) W Sicily	305 m
<i>Crithmum maritimum</i>	19/11/2006	Tonnara di Paceco (Trapani) W Sicily	2 m
<i>Crithmum maritimum</i>	12/01/2007	Ognina (Catania) E Sicily	2 m
<i>Pancratium maritimum</i>	26/09/2004	Macchitella (Gela) S Sicily	6 m
<i>Pancratium maritimum</i>	02/10/2004	Isola Grande (Trapani) W Sicily	1 m
<i>Sarcopoterium spinosum</i>	22/06/2007	RNI Villasmundo-Alfio (Syracuse) SE Sicily	415 m
<i>Sarcopoterium spinosum</i>	01/10/2004	RNI Villasmundo-Alfio (Syracuse) SE Sicily	400 m

- Random collections from whole populations
- Seeds dried into a thermostatic cabinet at T=15°C and rH=10 %, then stored at 5°C (active collections)
- Tests made into germination cabinets with electronic programme for both thermoperiod and photoperiod
- Seeds randomly sampled from accessions
- Dataloggers monitoring environmental condition during dehydration and germination

Pancratium maritimum

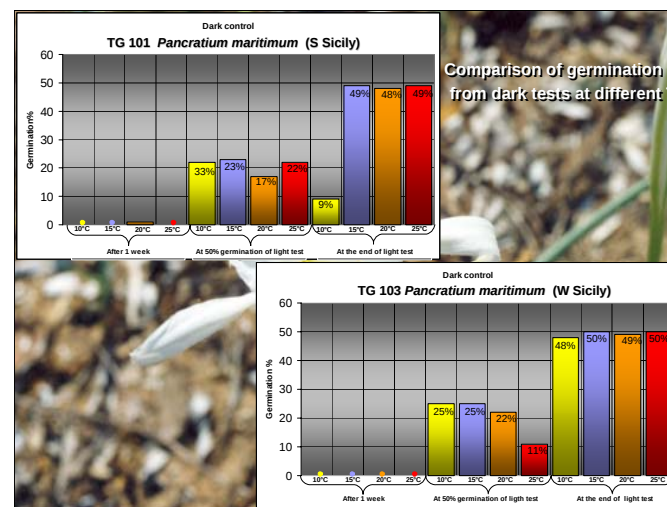
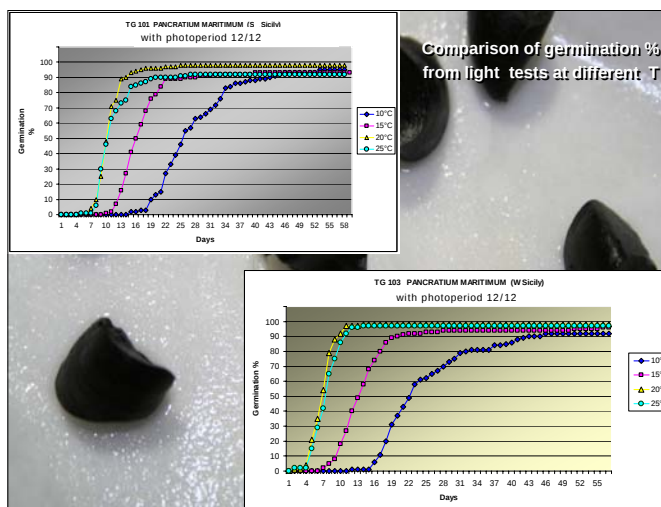
Code	Taxon	Date	Locality	Sicily	Alt.	Soil	Bioclimate
1 052G1/04 PNCMTM	<i>Pancratium maritimum</i>	26/09/2004	Macchitella (Gela)	S Sicily	6 m	sand	Dry Thermomediterranean
2 087G5/04 PNCMTM	<i>Pancratium maritimum</i>	02/10/2004	Isola Grande (Trapani)	W Sicily	1 m	dune rocks	Dry Thermomediterranean



<i>Pancratium maritimum</i> 052G1/04 (S Sicily) TG 101 21/06/07				
GERMINATION CONDITIONS				
N. SEEDS	4 X 25	4 X 25	4 X 25	4 X 25
TEMPERATURE (°C)	10	15	20	25
PHOTOPERIOD (H)	12/12	12/12	12/12	12/12
SUBSTRATE	3 filter papers	3 filter papers	3 filter papers	3 filter papers
% FINAL GERMINATION	95	93	98	92
DEAD	3	5	1	4
OTHERS CATEGORIES	2	2	1	4
T50 (D)	25,33	17,41	11,04	10,96
TOTAL TIME (D)	70	70	70	70

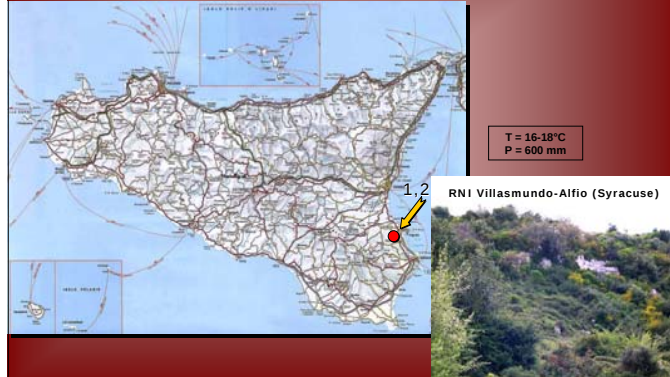
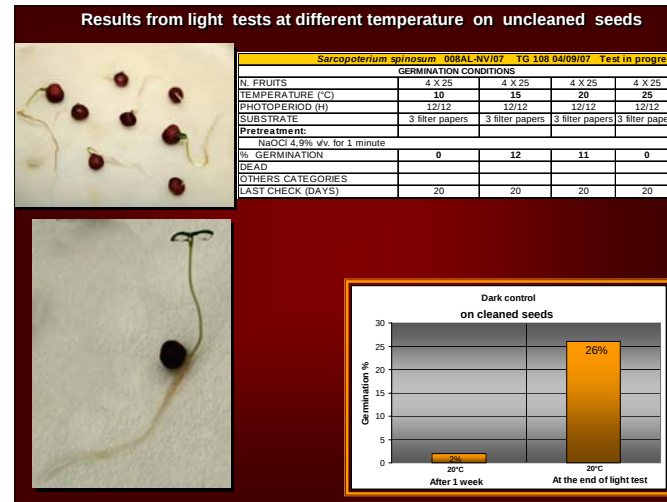
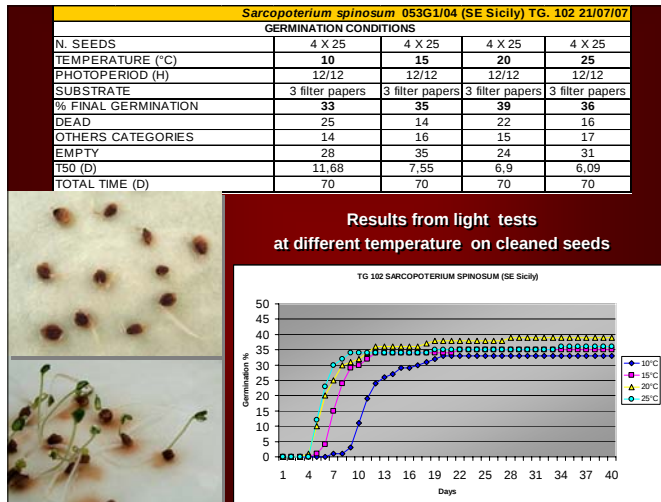
<i>Pancratium maritimum</i> 087G5/04 (W Sicily) TG 103 21/06/07				
GERMINATION CONDITIONS				
N. SEEDS	4 X 25	4 X 25	4 X 25	4 X 25
TEMPERATURE (°C)	10	15	20	25
PHOTOPERIOD (H)	12/12	12/12	12/12	12/12
SUBSTRATE	3 filter papers	3 filter papers	3 filter papers	3 filter papers
% FINAL GERMINATION	92	96	98	97
DEAD	1	0	0	1
OTHERS CATEGORIES	7	4	2	2
T50 (D)	25,66	17,57	10,63	10,08
TOTAL TIME (D)	70	70	70	70

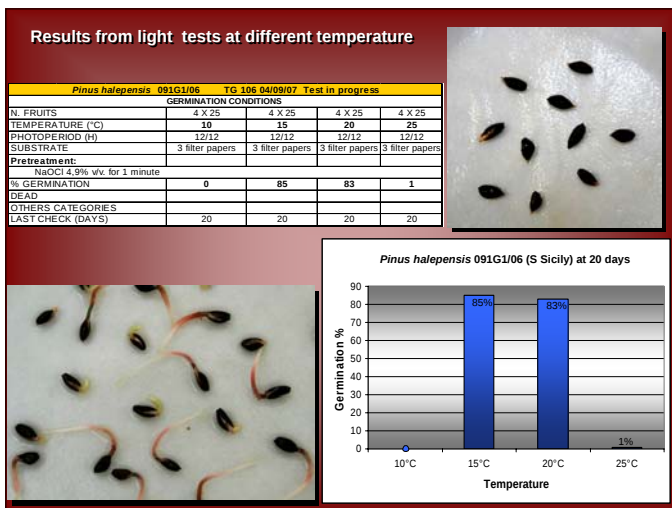
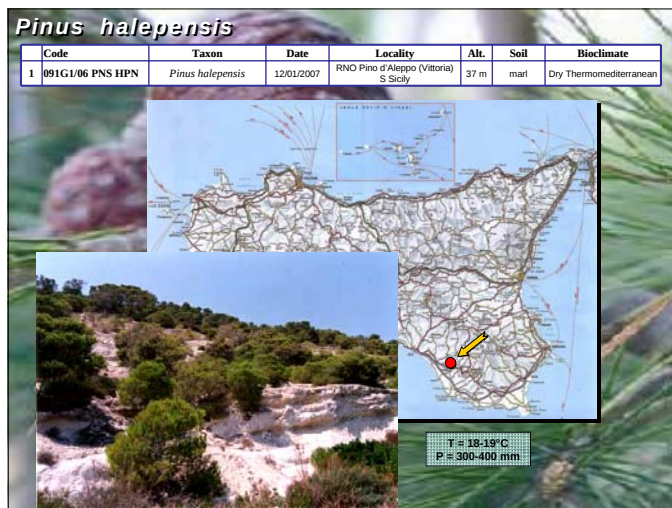
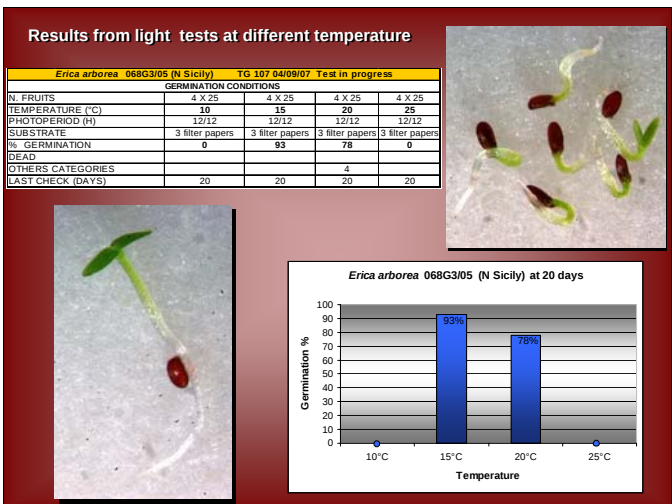
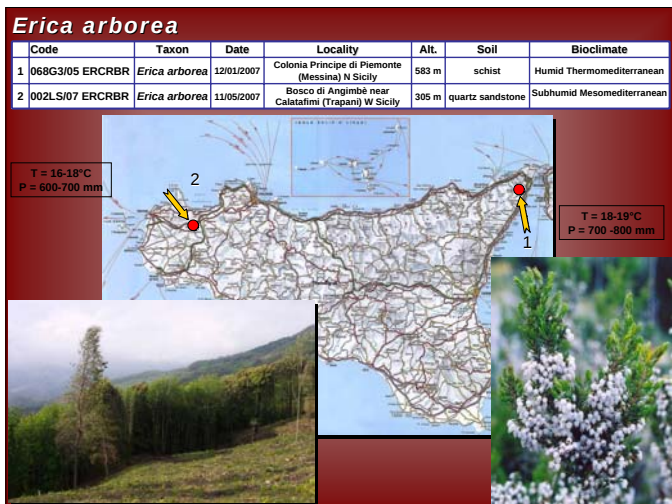
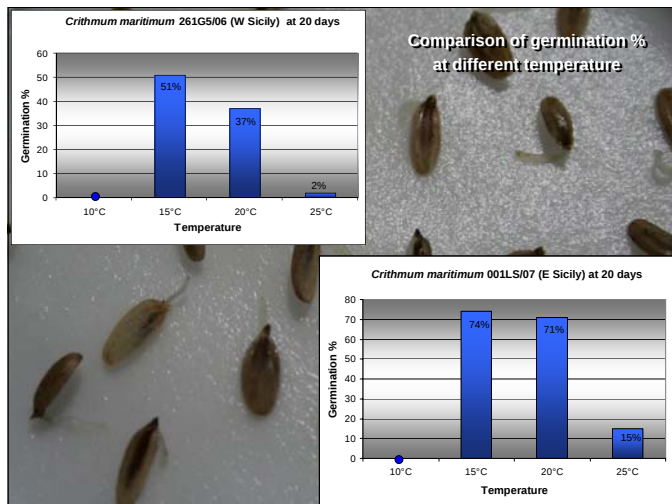
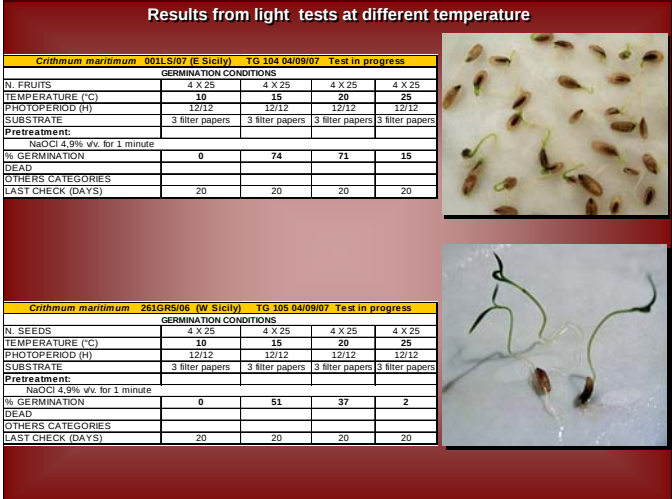
Results from light tests at different temperature



Sarcopoterium spinosum

Code	Taxon	Date	Locality	Alt.	Soil	Bioclimate
1 053G1/04 SRCNS	<i>Sarcopoterium spinosum</i>	03/10/2004	RNI Villasmundo-Alfio (Syracuse) SE Sicily	400 m	limestone	Dry Thermomediterranean
2 008G1/07 SRCNS	<i>Sarcopoterium spinosum</i>	22/06/2007	RNI Villasmundo-Alfio (Syracuse) SE Sicily	415 m	limestone	Dry Thermomediterranean



WORKS IN PROGRESS

- *Erica arborea*: starting for a new test (W Sicily populations)
- *Sarcopoterium spinosum*: new collections from W Sicily are planned in autumn
- *Pinus halepensis*: waiting for new collections from Marettimo island (W Sicily)

Cristina Salmeri, Angela Lantieri, Nelly Visalli, Leonardo Scuderi