



**EU FRAMEWORK PROGRAMME 7  
PEOPLE SPECIFIC PROGRAMME**

**PARTNER SEARCH FORM**

Date:	
Area:	
Call:	
Deadline:	

INFORMATION OF ORGANIZATION	
Name of organization	Central Laboratory for Agricultural Climate
Project Team	
Organization type	<input checked="" type="checkbox"/> Research <input type="checkbox"/> Education <input type="checkbox"/> Industry <input type="checkbox"/> Technology Transfer <input type="checkbox"/> SME <input type="checkbox"/> Other (please provide details)
Organization Size (employees)	<input type="checkbox"/> < 10 <input type="checkbox"/> 10-49 <input checked="" type="checkbox"/> 50-99 <input type="checkbox"/> 100-199 <input type="checkbox"/> 200-249 <input type="checkbox"/> >250
Short description of organization (main research activities)	1- climate modification and greenhouse management 2- Agro climate 3- Greenhouse climate
Project Proposal Scope and Objectives	<p>Effect of climate modification under greenhouse on irrigation requirement, nutrition uptake and disease control.</p> <p>Proper greenhouse management nowadays depends on accurate irrigation, nutrition and disease control that reduces the cost of production material and minimizes problems related to water, fertilizer and disease. The term "greenhouse climate", has been used to indicate the set of environmental quantities, i.e. radiation, temperature, humidity, and CO<sub>2</sub> concentration, in a greenhouse as they affect plant growth and development. The plastic houses cover 200 microns low density polyethylene sheets are still competitive mainly due to height cost and alternative cove not available and not study until now. Most vegetable producers face a problem of pest and diseases under this type of greenhouses, resulting from high relative humidity. The reduced transpiration rate under high humidity reduces the translocation of some ions (N, P, K, Ca and Mg) and hormones from the roots to the shoots and finally reduce yield. Screening nets for the exclusion of insect pests is an integrated pest management technique that does not depend upon pesticide application. Advantages to screening include reduced introduction of insects and pests, reduced need to spray and reduced exposure to pesticides.</p> <p>This project aims at investigating the effect of color insect-proof nets (black, white, red, blue and yellow) as a alternative greenhouse cover, replacing the polyethylene sheets in order to reduce the cost of covering material and to allow study the water requirements and nutrition uptake (N, P, K, Ca and Mg). The relationship between disease and temperature, humidity</p>

	with study and analyzes under different nets color compare with plastic greenhouse. Under nets greenhouse can allow start growing pepper and cucumber earlier under in autumn season and expand spring season for cucumber plant. Economical analysis of this nets color will calculate compare with plastic greenhouse.
Expertise offered	
Target partners' organisation type	<input checked="" type="checkbox"/> Research <input type="checkbox"/> Education <input type="checkbox"/> Industry <input type="checkbox"/> Technology Transfer <input type="checkbox"/> SME <input type="checkbox"/> Other (please provide details)
Target partners' expertise sought	
Target countries	Mediterranean countries
Other partners in the consortium already identified (with their countries)	
International projects already undertaken	

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