CITRUS ADVANCED TECHNOLOGY PROGRAM

QUARTERLY & FINAL REPORTS: Control of Citrus Greening, Canker & Emerging Diseases of Citrus

▶ INSTRUCTIONS

(●) *Quarterly Report* ( ) *Annual Report* ( ) *Final*

Required: What is the "headline" for this report (e.g. a one-sentence "newspaper headline" describing what you accomplished)

Growth room updated and releasing of in vitro clean scions

Proposal Title

Development of transformation systems for mature tissue of Florida commercial varieties and strategies to improve tree management

Today's Date	Sponsoring Organization (drop-down)	Category (drop down)
9/30/10	Citrus Research and Development Foundation	Transgenic/Metagenomic Mediation of Resistance

REPORT UPDATE (500 words; summarize your accomplishments)

1- The physical construction/renovation of the growth room did not start yet. A draft of the final layout of the lamps and benches was presented. Several scenarios about air filtration and distribution were discussed as well as safety, security and the irrigation system. Regarding irrigation, it seems like there are concerns about the amount of run-off water leaving the growth room. A holding tank was proposed as a way to contain the water that is coming out of the facility, however the existence of a retention pond south of the building might be the best solution. No decision has been reached at this point regarding the disposal of the water.
We make clear to everyone that we need hose bibs in the growth room and there will approximately 2000 gallons/week of run off water coming from the growth room, this is inclusive of watering the plants and maintaining cleanliness.

2 - The first material to establish mother plants from Hamlin 1-4-1 was released from Dr. Peggy Sieburth lab. The clean shoot tips are approximately 4 weeks old and they will need to be grafted in approximately 4 more weeks on rootstocks that are currently growing inside the lab. These rootstocks are being maintained inside the lab for 6 months under laboratory conditions and they needed to be transferred to bigger pots 2 months ago. Under these conditions the grafting will be delay until the growth room is available. Since these rootstocks are already suffering, a new batch was started as a backup. We hope that the shoot tips can hold a few months more until the grafting can be performed. We will need to transfer them several times which in normal conditions is not required. Maintaining shoot tips for a long time on in vitro conditions might also induce juvenility, which we will want to avoid.

3 - Construction of the growth room will start on October 25th according to information provided by the CREC maintenance supervisor.

4 - A grower was selected and he will be at CREC in a few weeks.

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Organization UFL-CREC

Contract Number 158.1

Project Duration (years) 3 *Year of Project* 2

Total Funds (current year) $639,529.00

SUBMIT REPORT

CITRUS RESEARCH AND DEVELOPMENT FOUNDATION, INC.