Florida Citrus Advanced Technology Program

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

Instructions Complete the fields based on your project specs. When finished, save the form to your local disk using a unique name. Then, go to **http://research.fcprac.com**, and log in with your user name and password using Researcher Login in the lower left. Find this project title and click on **Submit a Report**. Update your profile information if needed, then upload this report as directed.

2009-2010 REPORT	CATEGORY (drop-down)	TODAY'S DATE (m/d/yr)
◉ *Quarterly Report* ○ *Annual Report* ○ *Final*	Genetics	10/15/09

WHAT IS THE "HEADLINE" FOR THIS REPORT (e.g. a one-sentence "newspaper headline" describing what you accomplished)

Expanded Production of Transgenic Citrus Plants for FCPRAC funded researchers

TITLE and CONTACT INFORMATION

Proposal Title Increasing the Capacity of the University of Florida's CREC Core Citrus Transformation Facility (CCTF)

Principal Investigator Jude W. Grosser	*PI Last Name* Grosser
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Phone 863-956-1151	*Project Duration (years)* 3 *Year of Project* 1
Organization CREC-University of Florida/IFAS	*Total Direct Funds (current year)* $85,000.00

REPORT UPDATE (650 words; provide details about your headline)

CCTF continued its expanded operation with the new organization of the work reported in the previous quarterly report. The facility continued to service orders mostly for FCPRAC funded researchers wanting transgenic plants with various disease resistance constructs.

The list of transgenic plants that were produced during the quarter and confirmed by the presence of the reporter gene and appropriate validating PCR reaction:
LIMA gene: 1 Flame grapefruit; LIMA gene: 9 Mexican lime; CIT108 gene: 1 Valencia sweet orange;
CIT108p gene: 3 Flame; CIT108p3 gene: 5 Flame; CIT108p17 gene: 16 Flame; PITA gene: 3 Duncan grapefruit; F3* gene: 2 Duncan; AF1 gene: 1 Hamlin sweet orange, 1 Duncan; NPR1 gene: 1 Duncan; p6 gene; 3 Sour orange; pTLAB21 vector: 3 Duncan; pTLAB32 vector: 3 Duncan.

CCTF also produced approximately 30 soil-adapted plants that were not tested by PCR for the presence of the transgene of interest. These fall into two groups: 1) plants that were selected on the basis of the presence of reporter gene, 2) plants obtained after co-incubation of explants with the Agrobacterium strain that carried binary vector with the reporter gene.