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)

Service Lab facilitates transgenic solutions to HLB

Proposal Title

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

Today's Date	Sponsoring Organization (drop-down)	Category (drop down)
5/8/13	Citrus Research and Development Foundation	Transgenic/Metagenomic Mediation of Resistance

REPORT UPDATE (500 words; summarize your accomplishments)

During the final quarter of the year, the Core Citrus Transformation Facility (CCTF) maintained its level of performance and produced transgenic citrus plants for many satisfied customers.

During the 4th quarter, the CCTF continued to utilize the provided funding to process the orders for transgenic plants, mostly servicing CRDF funded researchers studying transgenes with potential to generate resistance to HLB. Orders processed during this quarter include: pY46-Carrizo; pY102-Carrizo; pY141-Carrizo; pY150-Carrizo; pCitIntra-Duncan; pAZI-Duncan; pAtBI-Duncan; pBCR2-Duncan; pDPR1-Duncan; pLP1-Hamlin; pLP1-C-mac; pLP2-Hamlin; pLP2-C-mac.

During the last quarter of this funding year, work was mostly concentrated on recent orders. Fourteen Duncan plants were produced carrying a gene of interest from the p35S-TRX vector and 23 more Duncan plants were produced carrying a gene from the pSucTRX vector. Multiple Duncan plants were produced toward satisfaction of "WG" group of orders: eight-pWG22-1 plants, three-pWG21-1, and four pWG25-13 plant. Also, following Carrizo plants were produced for the "Yale" order: nine plants with the gene from the pY46 vector and 11 plants with the gene from the pY102 vector. Eighteen Duncan plants were produced after treatment with bacteria harboring pBCR2 vector. Three more Duncan plants were produced with the EDS5 gene and six Mexican limes with the P35 gene. Four additional Duncan plants carrying a gene from pSUC-CitNPR1 were produced.

The impact of citrus diseases on Florida citriculture is rapidly growing, and our participation in this battle is growing with some positive results already being published. Continued funding for CCTF which is an integral part of this community and contributes greatly towards common goal will allow for the progress to go on by keeping production of transgenic material un-interrupted and at high levels.

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Organization Citrus REC

Contract Number 00077978

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

Total Funds (current year) $85,000.00

SUBMIT REPORT

CITRUS RESEARCH AND DEVELOPMENT FOUNDATION, INC.