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)

Progress is being made on clean-up and transformation of mat

Proposal Title

Agrobacterium-mediated Genetic Transformation of Mature Citrus Tissue

Today's Date	Sponsoring Organization (drop-down)	Category (drop down)
1/26/12	Citrus Research and Development Foundation	Transgenic/Metagenomic Mediation of Resistance

REPORT UPDATE (500 words; summarize your accomplishments)

This is the end of the second year plus a 6 month NCE for a currently funded multi-investigator, multi-institution project. Although many parts of this research were successful, it cannot be continued in its present form. The USDA group, who was receiving almost 50% of the funding, does not want to continue for a third year. The post-doc who was working on the project has left and it is difficult to get a new post-doc, particularly in Ft. Pierce, when only a year is left on the project. The group has published a paper on their successful efforts (Marutani-Hert, Mizuri, Evens, Terence,McCollum, Gregory, and Niedz, Randall. 2011. Bud emergence and shoot growth from mature citrus nodal stem segments. Plant Cell, Tissue and Organ Culture 106:81-91). The Moore laboratory is also making good progress on the use of cell penetrating peptides to get molecules into citrus without having to use Agrobacterium. In the past 6 months, we have been doing successful experiments with DNA as well as proteins. This is far from a mature technology but shows. promise.

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Organization University of Florida

Contract Number NAS144

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

Total Funds (current year) $224,000.00

SUBMIT REPORT

CITRUS RESEARCH AND DEVELOPMENT FOUNDATION, INC.