CITRUS ADVANCED TECHNOLOGY PROGRAM

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

SELECT PERIOD March 2013

(●) *Quarterly Report* ( ) *Final*

Proposal Title

HLB resistance through transgenic expression of short chain fragment variable antibodies against key Liberibacter epitopes

Today's Date	Sponsoring Organization (drop-down)	Category (drop down)
3/28/13	Citrus Research and Development Foundation	Culture, Molecular Biology, Koch's Postulates

REPORT UPDATE (500 words-It is not necessary in this public report to disclose your institution's proprietary information or intellectual property.)

This project is a continuation of a previous project #95 "PREPARATION OF ANTIBODIES AGAINST CANDIDATUS LIBERIBACTER ASIATICUS". Progress reports for the previous project are on file. The reimbursable agreement with CRDF was established on September 5, 2012. Efforts have been underway during this quarter to recruit a visiting scientist to work on this project. We continue to study the literature to identify vectors to use for a future scFv library made as part of this project. The goal is to find a suitable vector that is not encumbered by intellectual property and patent issues. We are also optimizing the cloning strategies that will be used to move already selected scFv into transgenic plants.

We have identified a suitable candidate for the visiting scientist position and the visa process is moving along.

Related research with the existing scFv is underway on project 551.

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Organization USDA ARS

Project Number 552

Project Duration (years) 3 *Year of Project* 1

Total Funds (current year) $155,680.00

Form PR-12 Quarterly Reports **SUBMIT REPORT**

CITRUS RESEARCH AND DEVELOPMENT FOUNDATION, INC.