CITRUS ADVANCED TECHNOLOGY PROGRAM

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

▶ SELECT PERIOD June 2012

(●) *Quarterly Report* ( ) *Final*

Proposal Title

Transmission of the emerging citrus pathogen cytoplasmic citrus leprosis virus by endemic mites

Today's Date

Sponsoring Organization (drop-down)

Citrus Research and Development Foundation

Category (drop down)

Infection Consequences

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

Cytoplasmic citrus leprosis infected samples were sent from Colombia to quarantine facilities at the USDA, APHIS, PPQ, CPHST, Beltsville, MD. Again they were negative in PCR and antibody tests for cytoplasmic citrus leprosis virus (CiLV-C). Samples were from different cultivars of citrus in order to see if the samples differed in the virus contained. Samples again were prepared for electron microscopy to verify the type of viral particle and particles similar to those previously published for cytoplasmic citrus leprosis were seen. Sequencing (funded on another project) was completed and the bioinformatics confirmed a new cytoplasmic citrus leprosis virus. New primers were produced for detection and samples were sent from Colombia for detection of both types of cytoplasmic citrus leprosis virus. Mr.Leon in Colombia as earlier reported continues to do successful mite transmission experiments with PCR negative isolates from Colombia. Samples were sent under permit to the USDA and using primers to the the new cytoplasmic citrus leprosis virus (CilV-C2) we have found that he has transmitted this new virus with Brevipalpus mites from Colombia. A manuscript is in preparation.

PI First Name

PI Last Name

Email

Phone

Organization

Project Number

Project Duration (years)

Year of Project

Total Funds (current year)

Form PR-12 Quarterly Reports

SUBMIT REPORT

CITRUS RESEARCH AND DEVELOPMENT FOUNDATION, INC.