CITRUS ADVANCED TECHNOLOGY PROGRAM

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

SELECT PERIOD September 2015

(●) *Quarterly Report* ( ) *Final*

Proposal Title

Developing a culture medium for Liberibacter asiaticus through comparative multi-omics analysis with its closest cultured relative, L. crescens

Today's Date	Sponsoring Organization (drop-down)	Category (drop down)
10/16/15	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.)

A Ca. L. asiaticus medium, AM, was proposed based on the components of a defined medium for L. crescens plus the addition of some compounds found on the phloem biochemical composition of citrus. So far, we have developed 5 modifications to AM, being AM2 the most promising one. Different inoculations procedures have been done using either a mix of psyllids guts or spin guts supernatant into the different media. Traditional PCR results indicated the presence of L. asiaticus inoculum in the cultures after three weeks; however, not turbidity associated with growth has been seen to date. We are currently exploring different possibilities such as qPCR and sequencing to verify that L. asiaticus is actually growing in the media.

With collaboration of Dr. Killiny's lab, we are currently analyzing other important components within the phloem sap of citrus to be added to AM2. We expect to propose new formulations based on this information.

PI First Name Eric

PI Last Name Triplett

Email ewt@ufl.edu

Phone 352-846-0961

Organization UF-IFAS

Project Number 15-027

Project Duration (years)

Year of Project

Total Funds (current year)

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

CITRUS RESEARCH AND DEVELOPMENT FOUNDATION, INC.