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

Genome-enabled metabolic reconstruction of Ca. Liberibacter asiaticus and its use in culturing and controlling the pathogen.

Today's Date	Sponsoring Organization (drop-down)	Category (drop down)
4/2/13	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.)

Additional sequencing is needed to close the current Bt-1 draft genome. Two 454 mate-pair libraries were prepared with 3 and 8kb fragment length. PacBio and IonTorrent shotgun libraries were also sequenced. Using this data the draft genome has been reduced from 109 to 6 contigs as of June 1st. With the aid of the optical map we are able to order these remaining contigs and are attempting to close the remainder of the genome with both targeted Sanger sequencing and bioinformatic methods.

All genomic and physicological data has lead us to believe that the babaco bacterium BT-1 is the closest cultured relative to Liberibacter asiaticus and Liberibacter solanacearum. We plan to propose the name Liberibacter crescens for strain BT-1 and will refer to it as such in all subsequent reports.

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Organization University of Florida, IFAS

Project Number 336

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

Total Funds (current year) $249,000.00

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

CITRUS RESEARCH AND DEVELOPMENT FOUNDATION, INC.