## CITRUS ADVANCED TECHNOLOGY PROGRAM

QUARTERLY \& FINAL REPORTS: Control of Citrus Greening, Canker \& Emerging Diseases of Citrus
INSTRUCTIONS
$\square$ Annual Report $\square$ Final

Required: What is the "headline" for this report (e.g. a one-sentence "newspaper headline" describing what you accomplished)

## First quarterly report: Second year

## Proposal Title

Genetic Resistance to Citrus Canker conferred by the Pepper Bs3 Gene

| Today's Date | Sponsoring Organization (drop-down) | Category (drop down) |
| :---: | :---: | :---: |
| 8/3/10 | Citrus Research and Development Foundation | Transgenic/Metagenomic Mediation of Resistance |

## REPORT UPDATE ( 500 words; summarize your accomplishments)

Since the end of April and the completion of the first year of our grant, we have pursued the following:

- We have continued with population and grapefruit leaf disease/resistance studies to examine the effect of transiently expressed Bs3 promoter constructs on the growth of an expanded range of $X$. citri strains. These studies concur with the preliminary results showing that the constructs limit X . citri growth and produce HR against a number of strains.
- We have continued to grow out stably transformed Duncan grapefruit lines and identified positive transgenics by PCR.
- We have had some discussions with parties in Argentina about their interest in this genetic approach to controlling citrus canker.
- We are selecting tobacco plants with the Bs3 promoter constructs driving reporter genes to aid in our investigation of the interaction of various $X$. citri TAL effectors with the promoter elements.

PI First Name Diana
Pl Last Name Horvath
Email dmh@2blades.org
Phone 8474251277

Organization Two Blades Foundation
Contract Number 102
Project Duration (years) $3 \quad$ Year of Project 2
Total Funds (current year) \$187,008.00

