# Florida Citrus Advanced Technology Program

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

**Instructions** Complete the fields based on your project specs. When finished, save the form to your local disk using a unique name. Then, go to **http://research.fcprac.com**, and log in with your user name and password using Researcher Login in the lower left. Find this project title and click on **Submit a Report**. Update your profile information if needed, then upload this report as directed.

| 2009-2010 REPORT | CATEGORY (drop-down) | TODAY'S DATE (m/d/yr) |
|---|---|---|
| ◉ *Quarterly Report* ○ *Annual Report* ○ *Final* | Genetics | 1/18/10 |

**WHAT IS THE "HEADLINE" FOR THIS REPORT (e.g. a one-sentence "newspaper headline" describing what you accomplished)**

Growing Genetic Materials to Search for Natural HLB Resistance or Tolerance

**TITLE and CONTACT INFORMATION**

*Proposal Title* Assessment of HLB Resistance and Tolerance in Citrus and Its Relatives

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|---|---|
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| *Phone* 8639561151 | *Project Duration (years)* 3 *Year of Project* 1 |
| *Organization* UF-CREC | *Total Direct Funds (current year)* 50,000 |

**REPORT UPDATE (650 words; provide details about your headline)**

We have collected and germinated seeds from several accessions from within the candidate categories listed in the proposal, including pummelos, intergeneric hybrids with Poncirus, wild citrus species, and various sweet orange lines for which there is emerging anecdotal evidence of differential sensitivity to HLB. Seedlings are being grown in DPI-certified greenhouses at the CREC to provide budwood for topworking and young trees to plant directly in the field; currently we have sufficient budwood to begin propagations for replicated field trials. In the 2009-10 fruiting season we collected seeds to increase the number and diversity of accessions that can be tested; these have been planted already, and are growing in our certified greenhouses to provide additional materials for tesing. We have a tentative agreement with one grower on the east coast of Florida to plant out the range of genetic diversity we hoped to test, both as seedlings and as top-worked trees, including some apparently tolerant types we have identified in an HLB-devastated grove in Florida. We are currently exploring other options within Florida, to be followed up with agreements to move ahead; these represent locations where growers have decided not to remove HLB-infected trees, so we expect there to be opportunities to challenge our replicated materials. We are in communications with our collaborators in China, to develop plans for importation of our plant materials there for testing in secure locations in Guangdong province.