



NAREEEAC Citrus Disease Subcommittee

Overview of CRDF Portfolio

February 18, 2016

Short-Term Project Topics

Vector Intervention

- Optimization of ACP suppression
 - Spray applications, timing, rotation of actives, alternative materials (e.g., kaolin clay)
- Alternative ACP tools
 - Attractants and repellents
 - Borders, reflective mulches and windbreaks as spatial elements
 - Biological control: Parasitoids, fungi

Short-Term Project Topics

Pathogen Intervention

- Bactericides:
 - Available active ingredients
 - Application strategies
 - Re-purposing available materials
 - Screens and assays for new candidates
 - Field performance trials
- Thermal therapy:
 - Efficacy in stimulating tree response
 - Impact on Clas
 - Impact on ACP acquisition
 - Scale-up for grower use

Short-Term Project Topics

Tree Health and Intervention

- Tolerance/resistance
 - Late stage performance evaluation and release
 - Nursery obstacles to availability
 - Cross-program comparisons
- Nutritional tweaking and intensive management
- Soil/root interactions and remediation
- Plant growth regulator field trials (phloem regeneration, fruit drop)
- Soil microbe product evaluations
- Inoculum reduction in unmanaged groves
- Integrating tools for new plantings

Mid to Long-Term Project Topics

- Resistance to Clas and/or ACP
- RNAi-mediated intervention ACP and/or Clas
- New active ingredients targeting ACP and Clas

Portfolio – HLB Pathogen Intervention

Bactericides		
Delivery	14	\$3,905,364
Research	4	1,028,475
Thermal Therapy		
Delivery	2	188,238
Research	1	385,900
Other Pathogen Intervention		
Research	7	3,070,216

Portfolio – HLB Vector Intervention

ACP Management & CHMAs		
Delivery	3	\$696,111
Research	6	1,823,858
RNAi		
Delivery	2	600,906
Research	2	1,657,266
Other Vector Intervention		
Research	2	342,876

Portfolio – HLB Host Plant Intervention

Naturally Occurring Microbe Products		
Delivery	5	\$479,414
Research	2	898,180
Plant Growth Regulators		
Delivery	1	240,000
Research	2	587,426
Tolerance/Resistance		
Delivery	6	1,682,457
Research	17	7,023,621

Non-HLB Project Topics

- Citrus Canker/Citrus Leafminer Management
- Citrus Black Spot
- Post-bloom fruit drop
- Citrus blight
- Citrus leprosis

16 Projects, \$4,117,007

University of Florida – Institutional Citrus Funding

Donor Endowments to Support Citrus Programs

- Supporting topics already prioritized with other funding
- CTV vector development
- RNAi evaluation (ACP)
- AMP evaluation (Clas)
- Biological Control of Citrus pests
- Citrus processing technology and fruit/juice quality

University of Florida – Institutional Citrus Funding

- Institutional Commitment to Programs and Personnel
- Legislative Appropriation Direct to UF
 - Core support for positions, infrastructure
- Special Initiatives
 - Citrus initiative: In-house allocation to HLB research, other priorities
 - Bacteriology associated with citrus HLB, canker

University of Florida – Institutional Citrus Funding

- Extramural Funding (may not be captured elsewhere)
 - SCRI State Block Grant Program
 - Advanced Citrus Production Systems
 - Citrus Nutrition
 - ACP control and Bee Stewardship
 - Ag-Chem Support
 - ACP, Citrus HLB, Canker, CBS, PFD, Bactericides