

**2017-18 CRDF Funded Research and Delivery Projects**

<b>Project No.</b>	<b>Principal Investigator</b>	<b>Affiliation</b>	<b>Project Title</b>
424	McNellis, Timothy	Pennsylvania State University	Functional disruption of the NodT outer membrane protein of <i>Candidatus Liberibacter asiaticus</i> for rootstock-mediated resistance to citrus greening using a phloem-directed, single-chain antibody.
754	Mou, Zhonglin	University of Florida	Application of a natural inducer of systemic acquired resistance and engineering non-host resistance in citrus for controlling citrus canker.
899	Etxeberria, Ed	University of Florida	Strigolactones type growth regulators to combat HLB in Florida.
940C	Beeson, Richard C.	University of Florida	Propagation of Rootstock Tree Production in Greenhouses by Seed, Stem Cuttings and Tissue Culture to Accelerate Budded Tree Production for Outplanting.
943C	Rogers, Michael	University of Florida	Support for scale-up of Thermal Therapy Treatment: Evaluation before and after thermotherapy heat treatments to combat HLB.
15-002	Bowman, Kimberly	USDA	Development of Supersour and Other Promising Rootstocks for Florida.
15-003	Bowman, Kimberly	USDA	Metabolomic profiling to accelerate development of HLB tolerant rootstocks.
15-005	Dewdney, Megan	University of Florida	Asexual inoculum production of <i>Guignardia citricarpa</i> , the causal agent of citrus black spot.
15-009	Gabriel, Dean	University of Florida	Exploiting the Las phage for potential control of HLB.
15-010	Gmitter, Fred	University of Florida	Development and Commercialization of Improved New Disease Resistant Scions and Rootstocks - the Key For a Sustainable and Profitable Florida Citrus Industry.
15-013	Grosser, Jude	University of Florida	Understanding and Manipulating the Interaction of Rootstocks and Constant Nutrition to Enhance the Establishment, Longevity and Profitability of Citrus Plantings in HLB-Endemic Areas.
15-016C	Hall, David	USDA	High-Throughput Inoculation of Transgenic Citrus for HLB Resistance.
15-017	Killiny, Nabil	University of Florida	Disrupt LuxR solo quorum sensing that mediates plant virulence and insect transmission of <i>Candidatus Liberibacter asiaticus</i> to control the disease.
15-020	Mou, Zhonglin	University of Florida	Create citrus varieties resistant to Huanglongbing (HLB) through transgenic and nontransgenic approaches.
15-021	Pelz-Stelinski, Kirsten	University of Florida	Regulation of Las transmission and microbial colonization by the Asian citrus psyllid immune system.
15-022	Reuber, T. Lynne	Two Blades Foundation	Engineering citrus for canker resistance.
15-023	Schumann, Arnold	University of Florida	Citrus nutrition studies for improved survival of HLB-affected trees.
15-024	Stelinski, Lukasz	University of Florida	Predicting When, Why, and Where Asian citrus psyllids move to increase effectiveness of insecticide sprays.
15-025	Stover, Ed	USDA	HLB Resistance and Tolerance in Citrus Scion Breeding.
15-026	Stover, Ed	USDA	Implementing Transgenic Tools to Produce Commercial Scion Cultivars Resistant to HLB and Canker.
15-028	Wang, Nian	University of Florida	Control citrus Huanglongbing (HLB) by counteracting the SA hydroxylase of <i>Candidatus Liberibacter asiaticus</i> .
15-030C	Rogers, Michael	University of Florida	Continuing Field Trial Support for CRDF CPDC.
15-032C	Irey, Mike	US Sugar Corp/Southern Gardens	Continued Support for the Southern Gardens Diagnostic Laboratory.
15-033C	Orbovic, Vladimir	University of Florida	Support role of the Citrus Core Transformation Facility remains crucial for research leading to production of Citrus plants that may be tolerant or resistant to diseases.
15-034C	Batuman, Ozgur	University of Florida	Continuation of diagnostic service for growers for detection of Huanglongbing in citrus and psyllids to aid in management decisions.
15-035C	Rogers, Michael	University of Florida	Continuing support of Citrus Health Management Areas (CHMA's).

15-036C	Rogers, Michael	University of Florida	Correlating pesticide residue analysis with psyllid feeding to improve protection of young trees.
15-037C	Santra, Swadeshmukul	University of Central Florida	T-SOL™ antimicrobial for the management of citrus canker and HLB.
15-039C	Stover, Ed	USDA	Secure site for testing transgenic and conventional citrus for HLB and psyllid resistance.
15-042	Wang, Nian	University of Florida	Control citrus Huanglongbing using endophytic microbes from survivor trees.
15-045C	Zale, Janice	University of Florida	Continued Funding for the Mature Citrus Facility to Produce Disease Tolerant, Transgenic Citrus.
15-049C	Booker, Brad	Florida Ag Research	Evaluation of minimal-risk and biopesticide products as a protectant and therapy for HLB.
16-001	Li, Yi	University of Connecticut	Enhancing Genetic Transformation Efficiency of Mature Citrus.
16-005	Wang, Nian	University of Florida	GFP labeling of Candidatus Liberibacter asiaticus in vivo and its applications.
16-007	Duan, Yongping	USDA	Field evaluation of the selected variants of Ruby Red grapefruit volunteer seedlings for greater HLB resistance/tolerance.
16-009C	Triplett, Eric	University of Florida	Developing second generation antimicrobial treatments for citrus greening disease.
16-010C	Dewdney, Megan	University of Florida	Enhancement of Postbloom fruit drop control measures.
16-011C	Adair, Robert C.	Florida Research Center for Agricultural Sustainability	Increasing the yield and decreasing the bearing age of citrus trees in new plantings by using metalized reflective mulch while determining ACP populations.
16-015C	Irey, Mike	US Sugar Corp/Southern Gardens	Enhanced Fruit Quality Assessment from Field Trials. RSA
16-016C	Eyrich, Tim	US Sugar Corp/Southern Gardens	Use of RNAi delivered by the Citrus Tristeza Virus Viral Vector to control the Asian Citrus Psyllid.
16-017C	Tetard, Laurene	University of Central Florida	Quantitative Detection and Mapping of Bactericides in Citrus.
16-019C	Pelz-Stelinski, Kirsten	University of Florida	RSA - Small plant assay for testing the efficacy of antimicrobial materials against HLB.
16-020C	Vincent, Christopher	University of Florida	Dyed kaolin to repel Asian citrus psyllid in field conditions.
16-022C	Richardson, Taw	AgroSource, Inc.	Large Scale Lab/Greenhouse/Field Trial Evaluation - HLB.
16-024C	Ables, Camilla	National Academies of Sciences	A Review of the Citrus Greening Research and Development Efforts Supported by the Citrus Research and Development Foundation.
16-025.1C	Drouillard, Greg	Ablate BioTech LLC	Comparison of chemical uptake with laser ablation and conventional foliar application – Phase One.
16-025.2C	Booker, Brad	Florida Ag Research	Comparison of chemical uptake with laser ablation and conventional foliar application - Phase 1 Crop Consultant.
16-025.3C	Wang, Nian	University of Florida	Quantification of oxytetracycline in plant samples.
16-026C	Meissner	Bayer Crop Science	Establishment and application of tools to allow a systematic approach to identify and characterize hits with confirmed in planta HLB activity.
17-001C	Stelinski, Lukasz	University of Florida	Insecticide resistance management in Florida citrus production.
17-002C	Irey, Mike	US Sugar Corp/Southern Gardens	Continued Support for the Southern Gardens Diagnostic Laboratory.
17-005C	Vincent, Christopher	University of Florida	Effects of heat treatments on antimicrobial uptake and translocation in citrus trees.
17-006C	Triplett, Eric	University of Florida	Monitoring of citrus groves for non-target antibiotic resistance prior to and after application of streptomycin and oxytetracycline.