Project No#	Principal Investigator	Project Title	Institution
00	Stansly, Phil	Development and Delivery of Comprehensive Management Plans for Asian	University of
		Citrus Psyllid Control in Florida Citrus	Florida
000	Muraro, Ron	An Economic Model to Evaluate Emerging Solutions to Citrus Greening	University of
			Florida
002	Albrigo, Gene	Characterize the roles of callose and phloem proteins in citrus	University of
		Huanglongbing (HLB) symptom development	Florida
004	Stansly, Phil	Creation and Maintenance of an Online Citrus Greening Database	University of
			Florida
005	Baldwin, Elizabeth	Effects of HLB on quality of orange juice and identification of HLB-induced	USDA-ARS
		chemical signatures in fruit juice and leaves	
007	Bassanezi, Renato	Comparative epidemiology of citrus huanglongbing (greening) caused by	Fundecitrus
		Candidatus Liberibacter asiaticus and Ca. Liberibacter americanus	
008	Bassanezi, Renato	Reduction of bacterial inoculum and vector control as strategies to manage	Fundecitrus
		citrus huanglongbing (greening)	
013	Powell, Chuck	Control of the Asian Citrus Psyllid, Diaphorina citri Kuwayama with protease	University of
		inhibitors and RNAi	Florida
014	Bowman, Kimberly	Development of Promising New Rootstocks and Scions for Florida Citrus	USDA-ARS
016	Brlansky, Ron	Alternative Hosts of HLB to Assist in Disease Management	University of
			Florida
021	Brown, Judy	The citrus psyllid transcriptome and time course differential gene expression	University of
		in Ca. Liberibacter-infected/free whole psyllids and organs	Arizona
025	Burns, Jackie	Combating symptom development in fruit from Huanglongbing-infected	University of
		citrus trees: A transcriptomic, proteomic and metabolomic approach	Florida
034	Brown, Judy	Gross and fine structure localization of Liberibacter in citrus psyllid	University of
000		Diaphorina citri organs: elucidating the transmission pathway	Arizona
038	Brown, Judy	Management of Pyslia in tree fruit crops using RNA interference	University of
045	Devices Dill		Arizona
045	Dawson, Bill	Examine the response of different genotypes of citrus to citrus greening	University of
046	Dawson Bill	(Huangiongbing) under different conditions	FIOTIDA
040	Dawson, bin	Citrus Grooping (Huanglonghing or HLP)	Elorida
048	Dollet Michel	Attempts to in vitro culture Candidatus Liberibacter asiaticus isolates in	Cirad
048	Dollet, Michel	order to fulfil Koch's nostulates	Cirau
057	Ehsani Reza	Detecting Citrus greening (HLR) using multiple sensors and sensor fusion	Liniversity of
037		annroach	Florida
061	Della-Colletta, Helvecio	Diagnosis of Candidatus Liberibacter asiaticus in plant and vector based on	Fundag, Brazil
		molecular and serological approaches.	
063	Futch, Stephen	Grower educational programs to enhance adoption of psyllid and HLB	University of
	,	control	Florida
065	Gabriel, Dean	Genomic sequencing to closure of a curated Florida citrus greening strain of	University of
		Candidatus Liberibacter asiaticus	Florida
066	Gmitter, Fred	Development of transformation techniques for Murraya, to engineer a	University of
		deadly trap plant	Florida
067	Gmitter, Fred	Surviving HLB and canker: genetic strategies for improved scion and	University of
		rootstock varieties	Florida
068	Gmitter, Fred	Identification and Characterization of HLB Survivors	University of
			Florida
071	Gmitter, Fred	International citrus genome consortium (ICGC): Providing tools to address	University of
		HLB and other challenges	Florida
072	Gmitter, Fred	Assessment of HLB Resistance and Tolerance in Citrus and Its Relatives	University of
			Florida
076	Gottwald, Tim	Efficacy of citrus canker control strategies, leafminer interactions, and	USDA-ARS
		bacterial survival.	
077	Gottwald, Tim	Epidemiology and disease control of HLB	USDA-ARS
078	Gottwald, Tim	Efficacy of interplanting citrus with guava as a control strategy for	USDA-ARS
		Huanglongbing	

Project No#	Principal Investigator	Project Title	Institution
079	Gowda, Siddrame	Development of sensitive, non-radioactive and rapid tissue blot diagnostic	University of
		method for large-scale detection of citrus greening pathogen	Florida
081	Graham, Jim	Systemic acquired resistance (SAR) for control of citrus canker on young	University of
		trees	Florida
082	Graham, Jim	Characterization of canker resistance in citrus plants created by 'Somatic	University of
		Cybridization' without citrus transformation.	Florida
083	Graham, Jim	Canker management in Florida citrus groves: chemical control on highly	University of
		susceptible grapefruit and early orange varieties	Florida
084	Graham, Jim	Transmission of HLB by citrus seed	University of
			Florida
085	Graham. Jim	Survival of Xanthomonas citri ssp. citri (Xcc) to estimate risk of citrus canker	University of
	,	transmission by infected fruit	, Florida
086	Graham. Jim	Does systemic acquired resistance (SAR) control HLB disease development?	University of
			Florida
087	Grosser lude	Accelerating the Commercialization of Transformed Juvenile Citrus	University of
007			Elorida
088	Gurley William	Engineering citrus for resistance to Liberibacter and other phloem	Liniversity of
000	Guncy, winnann	nathogens	Elorida
090	Mizoll Russoll	An offective tran for Acian citrus psyllid that can be used to monitor groups	Linivorsity of
050	WIZEII, RUSSEII	and plants for calo	Elorido
001	Hall David	and plants for sale	
091	Hall, David	Efficacy of Seasonal Insecticide Programs for Suppressing HLB in New Citrus	USDA-AKS
000		Plantings	
093	Hall, David	Pathogen-Vector Relations between Asian Citrus Psyllid and Liberibacter	USDA-ARS
		asiaticus	
095	Hartung, John	Preparation of monoclonal antibodies against Candidatus liberibacter	USDA-ARS
		asiaticus	
102	Horvath, Diana	Genetic Resistance to Citrus Canker conferred by the Pepper Bs3 Gene	Two Blades
108	Irey, Mike	Support for the Southern Gardens Diagnostic Laboratory	Southern Gardens
119	Lee, Richard	Recovery of Citrus germplasm in Florida	USDA-ARS
122	Falk, Bryce	Controlling HLB by controlling psyllids with RNA interference	UC Davis
123	Lindeberg, Magdalen	Bioinformatic characterization and development of a central genome	Cornell University
		resources website for Ca. Liberibacter asiaticus	
125	Lin, Hong	Development of SSR markers for detection, genotyping, phenotyping and	USDA-ARS
		genetic diversity assessment of Candidatus Liberibacter strains in Florida	
126	Lopes, Roberto S.	Factors influencing acquisition and inoculation of Candidatus Liberibacter	Fundag, Brazil
		asiaticus by Diaphorina citri	
129	Lu, Hua	Manipulating SA-mediated defense signaling to stimulate broad-spectrum	University of
		resistance to HLB and other diseases in citrus	Baltimore
132	Machado, Marcos	Analysis of transcriptome of citrus infected with Ca. Liberibacter asiaticus	Fundag, Brazil
	Antonio	and Ca. L. americanus.	
144	Moore, Gloria	Agrobacterium-mediated Genetic Transformation of Mature Citrus Tissue	University of
			Florida
145	Moore, Gloria	Evaluate Differences in Response to HLB by Scions on Different Rootstocks	University of
			Florida
149	Mou, Zhonglin	Transferring Disease Resistance Technology from a Model System to Citrus	University of
			Florida
155	Grosser. Jude	Increasing the Capacity of the University of Florida's CREC Core Citrus	University of
	· · · · · · · · · · · · · · · · · · ·	Transformation Facility (CCTF)	Florida
158	Pena. Leandro	Development of transformation systems for mature tissue of Florida	IVIA. Spain
	,	commercial varieties, and strategies to improve tree management	
158 1	Dawson, Bill	Development of transformation systems for mature tissue of Florida	University of
100.1		commercial varieties, and strategies to improve tree management	Florida
161	Powell Chuck	A Ranid Screening Process for Chemical Control of Huanglonghing	Liniversity of
101		A napid screening rivess for chemical control of fluangiongoing	Florida
160	Duan Vongning	Disconting the Discose Complex of Citrus Huanglenghing in Elevide	
102		Dissecting the Disease complex of Citrus nualigiongoing in Fiorida	USDA-AKS

Project No#	Principal Investigator	Project Title	Institution
163	Triplett, Eric	Integrated approaches to discover pathogenesis-associated proteins from	University of
		the causal agent of citrus greening disease and build new diagnostic tools	Florida
164	Qureshi, J.A.	Sampling Plans to Guide Decision Making for Control Asian Citrus Psyllid	University of Florida
168	Ritenour, Mark	Pre-Grading Fresh Citrus for Canker Prior to Dumping on the Main Packingline	University of Florida
170	Roberts Pam	Diagnostic Services for growers for detection of HIB to aid in management	Liniversity of
170		decisions	Florida
172	Roberts, Pam	Spatial and Temporal Incidence of Ca. Liberibacter in Citrus and Psyllids detected Using Real-time PCR	University of Florida
174	Rogers, Michael	Huanglongbing: Understanding the vector-pathogen interaction for disease management	University of Florida
175	Rogers, Michael	Resistance and cross-resistance development potential in Asian citrus psyllid to insecticides and its impact on psyllid management	University of Florida
176	Rogers, Michael	Effects of nutrition and host plant on biology and behavior of the Asian	University of
170	Pouco Rob	Cultural Practices to Prolong Productive Life of HLP Infected Trees and	Linivorsity of
175	Rouse, Bob	Evaluation of Systemic Acquired Resistance inducers combined with Psyllid	Florida
170_1	Rouse Bob	Supplement to Project 170 with objectives below:	Liniversity of
1/5 1		Exp 1-Optimizing ground & foliar putrients:	Elorida
		Exp 2-Benefit of vector control and foliar nutrition	FIUITUA
184	Salyani, Masoud	Evaluation and development of effective ultra low volume spray technologies for management of the Asian citrus psyllid	University of Florida
191	Schumann, Arnold	Intensively managed citrus production systems for early high yields and vegetative flush control in the presence of greening disease	University of Florida
196	Setamou, Mamoudou	Coupling citrus flush management and dormant chemical spray as a strategy to control populations of Asian citrus psyllid	Texas A&M
200	Singh, Megh	Elimination of HLB infected trees without physical removal through application of herbicides	University of Florida
202	Song, Wen-Yuan	Engineering Resistance Against Citrus Canker and Greening Using Candidate Genes	University of Florida
203	Schumann, Arnold	Using physical and chemical property changes of citrus leaves as early indicators of HLB infection and effects of added plant nutrients	University of Florida
204	Burns, Jackie	Strategies to minimize growth flushes of mature citrus trees with pruning practices and plant growth regulators to reduce psyllid feeding	University of Florida
210	Stansly, Phil	Ultralow Volume and Aerial Application of Insecticides and Horticultural Mineral Oil to Control Asian Citrus Psyllid in Commercial Orchards	University of
212	Stansly, Phil	Enhanced Biological Control of Asian Citrus Psyllid in Florida through Introduction and Mass Rearing of Natural Enemies	University of
213	Stelinski, Lukasz	Development and optimization of biorational tactics for Asian citrus psyllid control and decreasing huanglonghing incidence	University of
214	Stelinski, Lukasz	Quantitative measurement of the movement patterns and dispersal	University of
215	Stelinski, Lukasz	Identification of psyllid attractants and development of highly effective	University of
217	Stelinski, Lukasz	Development of Effective Guava-based Repellent to Control Asian Citrus	University of
220	Stover, Ed	A secure site for testing transgenic and conventional citrus for HLB and	USDA-ARS
221	Stover, Ed	Production of Transgenic Commercial Cultivars Resistant to HLB and Canker	USDA-ARS
232	Wang, Nian	Characterization the virulence mechanism of the citrus Huanglongbing	University of
		pathogen Candidatus Liberibacter asiaticus	Florida
233	Wang, Nian	Identification and characterization of critical virulence and copper resistance genes of Xanthomonas axonopodis pv. citri & related species	University of Florida

Project No#	Principal Investigator	Project Title	Institution
236	Yamamoto, Pedro Takao	Can insecticides and mineral oil avoid transmission of Candidatus	Fundecitrus
		Liberibacter asiaticus by Diaphorina citri?	
238	Atwood, Ryan	Expand Research Plots and Maintain Existing Areas at Mid Florida Citrus	Mid Florida Citrus
		Foundation	Foundation
305	Dandekar, Abhaya	Improving innate immune response of Citrus to HLB	UC Davis
306	Davis, Michael J	Culturing Liberibacter asiaticus	University of
			Florida
307	De La Fluente, Leonardo	Infection traits and growth of Candidatus Liberibacter asiaticus inside	Auburn University
		microfluidic chambers	
308	Dewdney, Megan	Does huanglongbing (HLB) or associated nutrient deficiencies change asian	University of
		citrus psyllid (ACP) feeding patterns?	Florida
309	Dewdney, Megan	How the Ca. Liberibacter asiaticus prevalence in groves can affect the	University of
		acquisition and transmission by the Asian citrus psyllid	Florida
310	Duan, Yongping	Characterization of a putative insect-transmission determinant/virulence	USDA-ARS
		gene (Hyp1) of 'Candidatus Liberibacter asiaticus'	
312	Gowda. Siddrame	Functional study of the putative effectors of 'Candidatus Liberibacter	University of
	,	asiaticus' using Citrus tristeza virus vector	, Florida
313	Graham. Jim	Evaluation of foliar Zinc and Manganese application for control of	University of
	,-	Huanglongbing or associated symptom development	Florida
314	Grishin. Nick	Insight into the causative agent of citrus greening disease (HLB) using	UT Southwestern
		computational structure/function analysis of genome encoded proteins	Medical
315	Hall David	Speedy evaluation of citrus germplasm for psyllid resistance	USDA-ARS
319	Keyhani Nemat O	Application of Asian citrus nsvilid. Dianhorina citri tissue culture cell lines	University of
515	Keynani, Nemat O.		Florida
324	Oureshi I A	Impact of insecticidal control of Asian citrus psyllid (ACP) on leafminers	Liniversity of
524	Quicsiii, J.A.	mites scales thrins and their natural enemies in Florida	Florida
225	Rogers Michael	Development and evaluation of psyllid management programs for	Liniversity of
525	Nogers, Michael	protection of resets and young tree plantings from HIB	Elorida
326	Roose Mikeal	A Chemical Genomics Approach to Identify Targets for Control of Asian	
520	NOOSE, MIREA	Citrus Devilid and HLR	OC INVEISIGE
278	Santra Swadeshmukul	Copper loaded silica papagel technology for long term prevention of citrus	LICE
520	Santia, Swadesinnakai	canker disease	
329	Schumann Arnold	Evaluation of the mechanism and long-term management potential of boron	Liniversity of
525	Schullann, Amolu	based suppression of HI B symptoms	Florida
330	Shatters Boh	Targeting the Asian Citrus Psyllid Feeding Mechanism as a Means of Blocking	
550	51101115, 200	Psyllid Feeding on Citrus	050/(////5
330-1	Shatters Boh	Enhancement - Targeting the Asian Citrus Psyllid Feeding Mechanism as a	
550 1	51101115, 200	Means of Blocking Psyllid Feeding on Citrus	050/(////5
331	Stansly Phil	Thresholds for vector control in young citrus treated for symptoms of HIB	Liniversity of
551	Stansiy, i m	with a nutrient/SAR nackage	Florida
332	Stelinski Lukasz	Is Candidatus Liberibacter asiaticus, the nathogen responsible for	Liniversity of
552	Stellinski, Edkusz	Huanglonghing in Florida, sexually transmitted between adult nsyllids?	Florida
333	Stelinski Lukasz	Maintaining the effectiveness of our current and most important psyllid	Liniversity of
555	Stellinski, Eukasz	management tools (insecticides) by preventing insecticide resistance	Elorida
33/	Stelinski Lukasz	How does Liberibacter infection of psyllids affect the behavioral response of	Liniversity of
554	Stellinski, Eukasz	this vector to healthy versus HI B-infected citrus trees?	Florida
225	Stolinski Lukasz	Evaluation of Mothyl Salicylate as a simultaneous repellent of Asian citrus	Linivorsity of
555	Steiniski, Lukasz	evaluation of Methyl Sancylate as a simultaneous repenent of Asian citrus	Elorida
336	Triplett Fric	Genome-enabled metabolic reconstruction of Ca. Liberibactor asiaticus and	I Iniversity of
550	Thplett, Life	its use in culturing and controlling the nathogon	Elorida
227	Wang Nian	Control of Citrus Huanglonghing by disruption of the transmission of citrus	Hoivorsity of
357	wally, wall	areening nathogen by neyllide	Florida
220	Vamamoto Dodro Takao	Breening hamogen by hypings	Fundecitrus
556	ramamoto, reuro 14Kao	Poulla Diaphorina citri	i unueciti us
400	Rowall Chuck	r sylla, Diaphorida Citil	Linivorsity of
400		H P Pactorium Candidatus Liberibactor aciaticus	Elorido
1		The bacterium, Canuluatus Elberibacter asiaticus	i iuliua

Project No#	Principal Investigator	Project Title	Institution
401	Powell, Chuck	Top 100 RNAi: Cloning, Expressing and Testing Key RNAi Molecules Against Asian Citrus Psyllid, Diaphorinia citri	University of Florida
402	Belknap, William	Acquisition and Assembly of the Genomic Sequence of the Citrus Rootstock Variety Carrizo	USDA-ARS
405	Brlansky, Ron	Transmission of the Emerging Citrus Pathogen Cytoplasmic Citrus Leprosis Virus by Endemic Brevipalpus mites	University of Florida
407	Davis, Michael J	Culturing Liberibacter asiaticus	University of
411	Dewdney, Megan	Understanding potential inoculum sources of Guignardia citricarpa, the causal agent of citrus black spot	University of Florida
413	Foliomonova, Svetlana	How the efficiency of HLB transmission by psyllids varies depending on the stage of infection and plant development	University of Florida
414	Gonzalez, Claudio	Identification of small molecules that disrupt pathogenicity determinants of Liberibacter asiaticus	University of Florida
416	Graham, Jim	Evaluation of foliar Zinc and Manganese application for control of Huanglongbing or associated symptom development	University of Florida
417	Graham, Jim	Novel formulations and application methods for bactericides to control systemic HLB infection	University of Florida
417-1	Graham, Jim	Enhancement - Novel formulations and application methods for bactericides to control systemic HLB infection	University of Florida
418	Hilf, Mark	Analysis of the colonization of citrus seed coats by 'Candidatus Liberibacter asiaticus' the causal agent of citrus huanglongbing and their use as a concentrated, pure source of bacteria for research.	USDA-ARS
422	LaPointe, Stephen	Automated application of semiochemicals for control of citrus leafminer and citrus canker disease with application for control of Asian citrus psyllid and HLB.	USDA-ARS
423	Lee, Won Suk	Sensing system for symptomatic citrus greening infected leaves using polarized light	University of Florida
424	McNellis, Timothy	Functional disruption of the NodT outer membrane protein of Candidatus Liberibacter asiaticus for rootstock-mediated resistance to citrus greening using a phloem-directed, single-chain antibody	Penn State University
425	Morgan, Kelly	Effect of application rate, tree size and irrigation scheduling on leaf Imidacloprid concentration, psyllid populations and soil leaching.	University of Florida
427	Pelz-Stelinski, Kirsten	Insecticidal and antimicrobial peptides for management of Asian citrus psyllid	University of Florida
434	Stansly, Phil	Mass rearing and release of parasitic wasps to augment biological control of the Asian citrus psyllid (ACP)	University of Florida
439	Stelinski, Lukasz	How does infection of Asian citrus psylid (ACP) with Candidatus Liberibacter asiaticus (Ca Las) affect the behavioral response of the vector to healthy versus diseased citrus trees?	University of Florida
440	Stelinski, Lukasz	Testing of existing botanical insecticides for activity against Asian citrus psyllid to identify potential new tools for psyllid management.	University of Florida
440-1	Stelinski, Lukasz	Enhancement - Testing of existing botanical insecticides for activity against Asian citrus psyllid to identify potential new tools for psyllid management	University of Florida
441	Stelinski, Lukasz	Improving psyllid management by optimizing 1) adjuvants for low volume sprays, 2) targeted border-row treatments, and 3) location of spray applications	University of Florida
445	Wang, Nian	Characterization of critical genes involved in spread of citrus canker pathogen Xanthomonas axonopodis pv. citri	University of Florida
446	Rogers, Michael	Establishment of Citrus Health Management Areas (CHMAs)	University of Florida
447	Stansly, Phil	Role of Nutritional and Insecticidal Treatments in Mitigation of HLB in New Citrus Plantings	University of Florida
447-1	Stansly, Phil	Enhancement - Role of Nutritional and Insecticidal Treatments in Mitigation of HLB in New Citrus Plantings	University of Florida
502	Hall, David	High-Throughput Screening of Transgenic Citrus for HLB Resistance.	USDA-ARS

Project No#	Principal Investigator	Project Title	Institution
503	England, Gary	The support of Citrus Research and Extension efforts by maintaining and	Mid-Florida Citrus
		improving the Mid Florida Citrus Foundation grove	FOUndation
508	Bowman, Kimberly	Development of Promising Supersour and Other Rootstocks Resistant to HLB	USDA-ARS
510	Brown, Judy	Molecular and cellular mechanisms that drive psyllid vector-Liberibacter	University of
		interactions in the transmission pathway	Arizona
516	Dawson, Bill	Develop citrus resistant or tolerant to HLB using the CTV vector and transgenic approaches	University of Florida
517	Dawson, Bill	Determine the time and location of sources of HLB inoculum of trees after visit of infected psyllids	University of Florida
518	Dawson, Bill	Examination of poncirus genes fo4r tolerancec of sweet orange to HLB	University of Florida
519	Dewdney, Megan	Strobilurin (QoI) resistance and the potential for resistance development to the newly introduced SDHI and DMI fungicides in tangerine-infecting Alternaria alternata populations of Florida	University of Florida
523	Duan, Yongping	Screening and Cloning of Resistance Related Genes by RNA-Seq in Huanglongbing (HLB) Resistant and Susceptible Citrus Breeding Lines	USDA-ARS
525	Duncan, Larry	Managing root health by exploiting the benefits and mitigating the	University of
		challenges afforded by nematodes	Florida
526	Ehsani, Reza	Precision foliar nutrient management using real time leaf analysis and a variable rate application technique	University of Florida
530	Falk, Bryce	Targetting Diaphorina citri using insect virus-induced systemic RNA interference	UC Davis
531	Falk, Bryce	Transgenic RNAi-based psyllid control	UC Davis
532	Foliomonova, Svetlana	A novel method for efficient inoculation of trees with the HLB bacterium	University of Florida
532-1	Foliomonova, Svetlana	Enhancement - A novel method for efficient inoculation of trees with the HLB bacterium	University of Florida
533	Foliomonova, Svetlana	Deployment of a superinfecting Citrus tristeza virus-based vector in the field: a measure to effectively protect field citrus trees against HIB	University of Florida
535	Gabriel, Dean	Exploiting the Las and Lam phage for potential control of HLB	University of
536	Gmitter, Fred	Identification and mapping of the genes controlling resistance to	University of
537	Gmitter, Fred	Characterization of Huanglongbing (HLB) survivors in the severely infected	University of
537-1	Gmitter Fred	Enhancement - Characterization of Huanglonghing (HLB) survivors in the	University of
007 1		severely infected and/or abandoned groves	Florida
538	Gmitter, Fred	Host genetic control of interference in Asian citrus psyllid life cycles	University of Florida
539	Gmitter, Fred	Creation, Development, and Screening of Citrus Germplasm for Resistance to HLB and Citrus Canker (Core Breeding)	University of Florida
544	Graham, Jim	Improved management of citrus canker through use of systemic acquired resistance and more bioavailable copper bactericides	University of Florida
545	Graham, Jim	Phytophthora damage to roots: a potential contributor to reduced nutrient uptake and decline of HI B-affected citrus trees	University of Florida
546	Graham, Jim	Mechanisms involved in biofilm formation and infection by Xanthomonas	University of
547	Grosser, Jude	Applying Advances of Juvenile Citrus Transformation Technology	University of
548	Grosser, Jude	Understanding and Manipulating the Interaction of Complex Rootstock Genetics and Constant Nutrition to Enhance the Establishment, Longevity and Profitability of New Citrus Plantings in HLB-Endemic Areas.	University of Florida
548-1	Grosser, Jude	Enhancement - Understanding and Manipulating the Interaction of Complex Rootstock Genetics and Constant Nutrition to Enhance the Establishment, Longevity and Profitability of New Citrus Plantings in HLB-Endemic Areas	University of Florida

Project No#	Principal Investigator	Project Title	Institution
551	Hartung, John	Visualization and detection of proteins produced by 'Ca. Liberibacter	USDA-ARS
		asiaticus' in infected sweet orange plants and vector psyllids	
552	Hartung, John	HLB resistance through transgenic expression of short chain fragment	USDA-ARS
		variable antibodies against key Liberibacter epitopes	
555	Horvath, Diana	TAL Effector Induced Resistance to Xanthomonas	Two Blades
556	Horvath. Diana	Engineering PAMP-receptor mediated broad spectrum resistance to HLB and	Two Blades
		canker	
558	Killiny, Nabil	Disrupt the bacterial growth in the insect vector to block the transmission of	University of
		Candidatus Liberibacter Asiaticus to citrus the causal agent of citrus	Florida
		greening disease	
558-1	Killiny Nahil	Enhancement - Disrupt the bacterial growth in the insect vector to block the	University of
550 1		transmission of Candidatus Liberibacter Asiaticus to citrus the causal agent	Florida
		of citrus grooping discoso	Tionda
EEO	Killiny Nabil	Blocking the Vector Transmission of Candidatus Liberibactor asiaticus to	Linivorsity of
559	Killiny, Nabil	Stop the Spread of Huanglanghing in Citrue	Clarida
500	LaDainta Ctanhan	Stop the spread of Huangiongbing in Citrus.	
560	LaPointe, Stephen	Application of an aggregation pheromone for management of the Diaprepes	USDA-AKS
504		root weevil.	
561	LaPointe, Stephen	Determination of attractive nost plant volatiles and sex pheromones of the	USDA-ARS
		Asian citrus psyllid using electroantennograms and coupled gas	
		chromatograph-electroantennographic detection	
562	Lee, Richard	Development of new technologies to eliminate huanglongbing from	USDA-ARS
		budwood source trees	
563	Lee, Richard	Analyzing Liberibacter isolates undetectable by standard diagnostic methods	USDA-ARS
564	Lindeberg, Magdalen	Expansion of online genome resources for bacterial pathogens of citrus and	University of
		development of a diagnostic sequence database for Liberibacter species.	Florida
566	Lu Hua	Manipulating defense signaling networks to stimulate broad-spectrum	Liniveristy of
500	Lu, Hua	registance to HLP and other discasses in citrus	Baltimoro
567	Mankin Pichard	Acoustic trap for Acian citrus poullide	
E67 1	Mankin, Richard	Enhancement Acoustic tran for Asian citrus psyllids	
507-1		Linnancement - Acoustic trap for Asian citrus psynius	USDA-ARS
570	iviizeii, kusseii	Candidatus hastoria for DNA analyses: understand vestor grooping	Elorido
		candidatus bacteria for DNA analyses, understand vector-greening	FIULIUA
F 70 1	Minell Dussell		l lucius acita e of
570-1	Mizell, Russell	Ennancement - Using a novel psyllid trap that captures and preserves	University of
		psyllids and Candidatus bacteria for DNA analyses: understand vector-	Florida
		greening population dynamics and entomopathogens	
572	Moore, Gloria	Study the role of Basal Defense and Chemical Treatments in the Response of	University of
		Citrus to HLB	Florida
573	Moore, Gloria	Use of an early early flowering gene in citrus to rapidly transfer disease	University of
		resistance from citrus relatives into cultivated types	Florida
579	Orbovic, Vladimir	Citrus Core Transformation Facility as a platform for testing of different	University of
		genes and/or sequences that have potential to render Citrus plants tolerant	Florida
		or resistant to diseases.	
581	Pelz-Stelinski, Kirsten	Key unknowns about Asian citrus psyllid biology in Florida: Overwintering	University of
		sites and alternative hosts	Florida
581-1	Pelz-Stelinski, Kirsten	Enhancement - Key unknowns about Asian citrus psyllid biology in Florida:	University of
		Overwintering sites and alternative hosts	Florida
582	Pelz-Stelinski, Kirsten	Factors influencing transmission of the huanglongbing (greening) pathogen	University of
		by the Asian citrus psyllid and methods for interrupting the transmission	Florida
		process	
582-1	Pelz-Stelinski. Kirsten	Enhancement - Factors influencing transmission of the huanglonghing	University of
		(greening) pathogen by the Asian citrus nsyllid and methods for interrunting	Florida
		the transmission process	
5830	Zale, Janice	Mature citrus transformation for surviving with citrus greening	University of
			Florida

Project No#	Principal Investigator	Project Title	Institution
584	Powell, Chuck	Rapid and Efficient Delivery of Effective Compounds into Citrus Phloem for	University of
		Treatment of HLB Bacteria	Florida
584-1	Powell, Chuck	Enhancement - Rapid and Efficient Delivery of Effective Compounds into	University of
		Citrus Phloem for Treatment of HLB Bacteria	Florida
586C	Ehsani, Reza	Low-cost solar thermal treatment for in-grove reduction of Clas/ In-field	University of
		solar heat treatment of HLB-infected orange trees for inoculum reduction	Florida
		inoculum	
586-1	Ehsani, Reza	Low-cost solar thermal treatment for in-grove reduction of CLas inoculum -	University of
		Enhancement	Florida
589	Roberts, Pam	Continuation of diagnostic service for growers for detection of	University of
		Huanglongbing in citrus and psyllids to aid in management decisions	Florida
590	Rogers, Michael	Enhancing psyllid control through a better understanding of the effects of	University of
		pesticide applications on psyllid feeding and mortality	Florida
590-1	Rogers, Michael	Enhancement - Enhancing psyllid control through a better understanding of	University of
		the effects of pesticide applications on psyllid feeding and mortality	Florida
592	Rucks, Phil	Protective Structure for Citrus Research Foundation Farm to Enhance USDA	Rucks Nursery
		Citrus Breeding	
593	Schumann, Arnold	Advanced Production Systems (ACPS) for efficient, sustainable citrus groves	University of
			Florida
594	Schumann, Arnold	Improving the uptake efficiency of nutrients applied to citrus foliage	University of
			Florida
596	Song, Wen-Yuan	Engineering Resistance Against Citrus Canker and Greening	University of
			Florida
598	Schumann, Arnold	Bringing young citrus trees infected with Candidatus Liberibacter asiaticus	University of
		into production using intensive horticultural management strategies.	Florida
600	Stansly, Phil	Management Tactics Based on Psyllid Movement and Distribution in Florida	University of
		Citrus	Florida
601	Stansly, Phil	Effective and Sustainable Insecticidal Control of Citrus Leafminer,	University of
		Phyllocnistis citrella (Stainton) Lepidoptera: Gracillariidae) to Slow Spread of	Florida
		Citrus Canker Disease.	
603	Stelinski, Lukasz	Non-neurotoxic chemicals as alternatives to conventional insecticides for	University of
		Asian citrus psyllid management and prevention of insecticide resistance	Florida
603-1	Stelinski, Lukasz	Enhancement - Non-neurotoxic chemicals as alternatives to conventional	University of
		insecticides for Asian citrus psyllid management and prevention of	Florida
		insecticide resistance	
604	Stelinski, Lukasz	Influence of plant nutrient regimes for extending the life of HLB-infected	University of
		trees on Asian citrus psyllid biology and management	Florida
604-1	Stelinski, Lukasz	Enhancement - Influence of plant nutrient regimes for extending the life of	University of
		HLB-infected trees on Asian citrus psyllid biology and management	Florida
605	Stover, Ed	Development of Promising New Scions for Florida Citrus: Exploiting HLB	USDA-ARS
		Resistance and Tolerance	
606	Stover, Ed	Production of Transgenic Commercial Scion Cultivars Resistant to HLB and	USDA-ARS
		Canker: Continued AMP Approaches and Novel Transgenic Strategies	
607	Stover, Ed	A secure site for testing transgenic and conventional citrus for HLB and	USDA-ARS
		psyllid resistance	
608	Wang, Nian	Characterize the effect of application of beneficial bacteria (Microbe	University of
		Program) on management of Huanglongbing	Florida
608-1	Wang, Nian	Enhancement - Characterize the effect of application of beneficial bacteria	University of
		(Microbe Program) on management of Huanglongbing	Florida
609	Wang, Nian	Control of citrus Huanglongbing by exploiting the virulence mechanisms of	University of
		Candidatus Liberibacter asiaticus and inducing plant defense	Florida
610	Wang, Nian	Improve the management of citrus canker by protecting citrus fruits through	University of
		interfering with biofilm formation and quorum sensing of Xanthomonas citri	Florida
		ssp. citri	
611	Wang, Nian	Characterize the causal agent of citrus blight through metagenomic	University of
		approaches and the effect of HLB on citrus blight diseased trees	Florida

Project No#	Principal Investigator	Project Title	Institution
614	Young, Linda	Enhanced nutritional application and productivity in endemic HLB grove	University of
		situations in Florida - a statistical approach to determine efficacy	, Florida
614-1	Young, Linda	Enhancement - Enhanced nutritional application and productivity in endemic	University of
_		HLB grove situations in Florida - a statistical approach to determine efficacy	Florida
		······································	
615	Gmitter, Fred	Evaluation of Rootstocks Appropriate for Higher Density Groves and	University of
	,	Advanced Citrus Production Systems Leading to a Sustainable, Profitable	, Florida
		Florida Citrus Industry	
616	Rogers, Michael	Ultra High Performance Liquid Chromatography – Pesticide Residue Analysis	University of
			Florida
617C	Powell, Chuck	Screening effective chemical compounds against citrus HLB bacterium	University of
	,	Candidatus LiberibacterFurther evaluation of selected compounds in	, Florida
		greenhouse and field	
617-1	Powell. Chuck	Screening effective chemical compunds against citrus HLB bacterium	University of
	,	Candidatus Liberibacter-Further evaluation of selected compounds in	Florida
		greenhouse and field. Enhancement	
6180	Dawson, Bill	RNAi InnoCentive Project Extension (Phase II): In planta Characterization of	University of
0100		dsRNA Effect on all Psyllid Life Stages and Selection of Target(s) to Advance	Florida
		to Commercialization	
701	Allan Sandra	Exploitation of Visual Stimuli for Better Monitoring and Management of ACP	
701		in Young Citrus Plantings	050777005
701-1	Allan Sandra	Enhancement - Exploitation of Visual Stimuli for Better Monitoring and	
701-1	Allan, Sanura	Management of ACP in Young Citrus Plantings	USDA-ANS
702	Baldwin Elizabeth	Investigate effect of putritional sprays on healthy and HI B-diseased orange	
702	Daluwin, Liizabeth	fruit and resulting juice quality	USDA-ANS
707	Schumann Arnold	Are there declines in hydraulic conductivity and drought tolerance	Linivorsity of
707	Schumann, Arnolu	accoriated with HLP2	Elorida
710	Etxoborria Ed	Identification of potential nathways for the spread of HLP through sitrus	Lipiyorsity of
/10	Elxeberria, Eu	vascular systems	Elorida
711	Ponning Pryony	Vasculai systems	
/11	Borning, Bryony	Citrue Devilid	University
710	Dandakar Abbaya	Panid testing of next generation chimoric antimicrobial protein components	
/12	Dalluekal, Ablidya	for broad coastrum sitrus disease control	OC Davis
715	Dowdnov Magan	The leaf littler cycle of citrus black and improvements to surrent	Linivarsity of
/15	Dewulley, Megali	management practices	Elorida
716	Dowdnov Magan	Improved fungicide control measures for pro- and past baryost	Lipiyorsity of
/10	Dewulley, Wegali	management of citrus black spot	Elorida
717	Duan Vangning	Control Citrus HI B by Placking the Eulertian of two Critical Effectors Encoded	
/1/	Duari, rongping	by Candidatus Liberibactor aciaticus	USDA-ARS
720	Duncan Larny	Beyond Biol/octor: Can cold tolorant nomatodos offectively manage	Linivarsity of
720	Duncan, Larry	Diagrames root weavil in advanced sitrus production systems?	Elorida
772	Cabriel Dean	Exploiting the Las phage for notential control of HLP: year 2	Lipiyorsity of
725	Gabriel, Deall	Exploiting the Las phage for potential control of HLB. year 2.	Elorida
724	Cmittar Frad	Accelerating Citrus Cone Discovery for LUP Telerance (Pesistence	FIULIUd
724	Gmitter, Fred	Accelerating citrus Gene Discovery for HLB Tolerance/Resistance	University Of
720	Concolor, Corles	A Destavial Minus Deced Mathed for Discontrol of Citrus Confus	
/20	Gonzalez, Carlos	A Bacterial virus based Method for Biocontrol of Citrus Canker	Texas AgriLite
72.01	Concellar, Contes	A Deste de l'Africa Dess d'Afrika d'Esca Disse actuel à Étite dite atour	
726L	Gonzalez, Carlos	A Bacterial Virus Based Method for Biocontrol of Liberibacter	Texas AgriLite
700	Counder Citations	DNA: modiated and local device of estadow the file of the	Kesearch
/28	Gowda, Siddrame	KINAI-mediated gene knock-down of selected members of 'Candidatus	University of
		Liberibacter asiaticus' induced citrus transcriptome with CTV based silencing	FIORIDA
		vector to prevent HLB infection of young citrus	
730	Graham, Jim	Monitoring streptomycin resistance in Xanthomonas citri in support of	University of
		FireWall registration for canker	Florida
731	Graham, Jim	Calcium carbonate may reduce root health and exacerbate HLB expression	University of
			Florida

Project No#	Principal Investigator	Project Title	Institution
731-1	Graham, Jim	Enhancement - Calcium carbonate may reduce root health and exacerbate	University of
		HLB expression	Florida
732	Graham, Jim	Understanding and reducing early root loss in HLB affected trees	University of
			Florida
733	Grishin, Nick	Molecular basis of Cirtus Greening and related diseases gleaned from	UT Southwestern
		genome analyses of hosts and pathogens	Medical
736	Gruber, Barrett	Expedited Indian River Evaluation of Tetrazyg Rootstocks Surviving the HLB-	University of
		Gauntlet	Florida
/49	LI, YI	Development of Technologies Important for Creation and	UConn
750		Commercialization of Transgenic HLB Resistant Citrus	
750	Maara Claria	Identification of key components in HLB using effectors as probes	UC Riverside
/52	Moore, Gioria	Cell Penetrating Peptides for Citrus Genetic Improvement and Disease	University of
754		Resistance	Florida
754	Niou, Zhongiin	Application of a natural inducer of systemic acquired resistance and	University of
750	Demandurau. Chandrilia	engineering non-nost resistance in citrus for controlling citrus canker	Florida
/58	Kamadugu, Chandrika	Further characterization of HLB resistant clones of selected citrus varieties	UC Riverside
759	Santra, Swadeshmukul	Fixed-Quat: A novel alternative to Cu fungicide/bactericide for preventing	UCF
		citrus canker.	
760	Setamou, Mamoudou	Development of a novel system for dissemination of a pathogenic fungus to	Texas A&M
		manage Asian citrus psyllid in abandoned citrus groves	
760-1	Setamou, Mamoudou	Enhancement - Development of a novel system for dissemination of a	Texas A&M
		pathogenic fungus to manage Asian citrus psyllid in abandoned citrus groves	
763	Stansly, Phil	Optimizing Spatial Distribution of Pheromone Traps for Monitoring Citrus	University of
		Leafminer and Related Species	Florida
765	Stelinski, Lukasz	Continuation of insecticide resistance monitoring and management for	University of
		sustainable control of Asian citrus psyllid.	Florida
765-1	Stelinski, Lukasz	Enhancement - Continuation of insecticide resistance monitoring and	University of
		management for sustainable control of Asian citrus psyllid	Florida
766	Stelinski, Lukasz	Biotic and abiotic factors that cause Asian citrus psyllids to accept hosts:	University of
		potential implications for young plantings and pathogen transmission.	Florida
767	Triplett, Eric	Rapid identification of antibiotics useful in the control of citrus greening	University of
		disease	Florida
769	Triplett, Eric	A team approach to culturing Ca. Liberibacter asiaticus.	University of
			Florida
771	Moudgil, Brij	Soft nanoparticle development and tree uptake to deliver potential HLB	University of
		bactericides	Florida
773	Wang, Nian	Control HLB by developing antimicrobial compounds against Candidatus	University of
770 4		Liberibacter asiaticus	Florida
//3-1	Wang, Nian	Enhancement - Control HLB by developing antimicrobial compounds against	University of
775.0	Nalasa NAsuli	Candidatus Liberibacter asiaticus	Florida
775C	iveison, iviark	Investigation of Non-Antibiotic Tetracycline Analogs and Formulations	Echelon Biossioness las
7700	Albring Cone	Against HLB	Biosciences inc.
776C	Albrigo, Gene	requent Low Rate Application of 2-4,D and Cytokinin to study plant	University of
סדדד	Albrigo, Cono	Symptom reduction in FLB directed trees	
///	Albrigo, Gene	Plant Growth Regulator late winter application for pre-narvest drop control	University of
7700	Albriga Conc	III valencia oralize-Grower (fials	
//ðL	Aibrigo, Gene	in Valencia aronge comprehensive BCB trials	Elorida
7700	Albrigo, Cono	Diant growth regulator fall applications for prohomicat dram control	
1190	Aibrigo, Gene	Valancia growth regulator fail applications for prenarvest drop control -	Elorida
7000	Wang Nian	valencia orange-single application of OWEL (Talls	Linivorsity of
1000	wally, Mall	L valuation of son-based Antimiciobials as control Agents against HLB.	Elorida
78000	Shatters Poh	Rear and Release Devilids as Piological Control Agents An Economical and	
700110		Feasible Mid-Term Solution for Huanglonghing (HLR) disease	
	1	i casisie minu i criti solution for muunglonguing (HED) uiscase.	1

Project No#	Principal Investigator	Project Title	Institution
781nu	Falk, Bryce	Rear and Release Psyllids as Biological Control Agents - An Economical and Feasible Mid-Term Solution for Huanglongbing (HLB) disease.	UC Davis
782nu	Hartung, John	Rear and Release Psyllids as Biological Control Agents - An Economical and Feasible Mid-Term Solution for Huanglongbing (HLB) disease.	USDA-ARS
783nu	Bartels, David	Rear and Release Psyllids as Biological Control Agents - An Economical and Feasible Mid-Term Solution for Huanglongbing (HLB) disease.	USDA-ARS
784nu	Brown, Judy	Rear and Release Psyllids as Biological Control Agents - An Economical and Feasible Mid-Term Solution for Huanglongbing (HLB) disease.	University of Arizona
785nu	Grafton-Cardwell, Elizabeth	Rear and Release Psyllids as Biological Control Agents - An Economical and Feasible Mid-Term Solution for Huanglongbing (HLB) disease.	UC Riverside
786nu	Polek, MaryLou	Rear and Release Psyllids as Biological Control Agents - An Economical and Feasible Mid-Term Solution for Huanglongbing (HLB) disease.	CRB
787nu	Galindo, Celestina	Rear and Release Psyllids as Biological Control Agents - An Economical and Feasible Mid-Term Solution for Huanglongbing (HLB) disease.	CA Dept Food & Agriculture
788nu	Hay, Bruce	Rear and Release Psyllids as Biological Control Agents - An Economical and Feasible Mid-Term Solution for Huanglongbing (HLB) disease.	CIT
789nu	Rohrig, Eric	Rear and Release Psyllids as Biological Control Agents - An Economical and Feasible Mid-Term Solution for Huanglongbing (HLB) disease.	FL Dept Consumer Services
790nu	Coop, Leonard	Rear and Release Psyllids as Biological Control Agents - An Economical and Feasible Mid-Term Solution for Huanglongbing (HLB) disease.	Oregon State University
791nu	Setamou, Mamoudou	Rear and Release Psyllids as Biological Control Agents - An Economical and Feasible Mid-Term Solution for Huanglongbing (HLB) disease.	Texas A&M
792nu	Giulianotti, Marcelo	Rear and Release Psyllids as Biological Control Agents - An Economical and Feasible Mid-Term Solution for Huanglongbing (HLB) disease.	Torrey Pines Institute
793nu	Gang, David	Rear and Release Psyllids as Biological Control Agents - An Economical and Feasible Mid-Term Solution for Huanglongbing (HLB) disease.	Washington State University
794nu	Pelz-Stelinski, Kirsten	Rear and Release Psyllids as Biological Control Agents - An Economical and Feasible Mid-Term Solution for Huanglongbing (HLB) disease.	University of Florida
795nu	Turpen, Tom	Rear and Release Psyllids as Biological Control Agents - An Economical and Feasible Mid-Term Solution for Huanglongbing (HLB) disease.	TIG
796nu	White, James	Rear and Release Psyllids as Biological Control Agents - An Economical and Feasible Mid-Term Solution for Huanglongbing (HLB) disease.	J White
782	Triplett, Eric	Evaluation of Candidate Antimicrobial Compounds or Combination of Compounds using Liberibacter crescens adday, for Efficacy in Reducing Titer in Bacterium Candidatus Liberibacter asiaticus as Control Agents Against HLB Individually and in Combination	University of Florida
803	Duan, Yongping	Characterization and manipulation of the prophages/phages of 'Candidatus Liberibacter asiaticus' for the control of citrus huanglongbing	USDA-ARS
805	Long, Sharon	Functional genomics of Liberibacter in a model system	Stanford Universit
809	Albrigo, Gene	Citrus preharvest drop related to HLB disease-Nature and control	University of Florida
816	Etxeberria, Ed	Identification of potential pathways for the spread of HLB through citrus vascular systems: Supplement	University of Florida
818	Etxeberria, Ed	Determining the contents of citrus phloem sap and its directional movement throughout the year	University of Florida
827	Irey, Mike	Continued funding of the Southern Gardens Diagnostic Laboratory	Southern Gardens
834	Duan, Yongping	Optimizing Heat Treatment in the Fields and Understanding the Molecular Mechanism Behind the Success of Thermotherapy for the Control of Citrus HLB	USDA-ARS
838	Morgan, Kelly	Effect of selected concentrations of calcium bicarbonate on expression of HLB in the greenhouse and grove	University of Florida
850	Albrigo, Gene	Scheduling ACP spring spray selection based on the Citrus Flowering Model	University of Florida
853	LaPointe, Stephen	Why is Poncirus trifoliata resistant to colonization by Asian citrus psyllid?	USDA-ARS
858	Santra, Swadeshmukul	New non-phytotoxic composite polymer film barrier as ACP repellent for controlling HLB infection	UCF

Project No#	Principal Investigator	Project Title	Institution
860	Sharma, Parvesh	Optical and physical deterrent for preventing ACP vector attack on citrus.	University of
			Florida
873	Lee, Richard	Application of new technologies to expedite cleaning of new accessions for use in Florida	USDA-ARS
880	Gurley, William	High-throughput screen of seedlings for resistance to citrus greening based	University of
		on optical sensing.	Florida
894	Gruber, Barrett	Are there declines in hydraulic conductivity and drought tolerance	University of
		associated with HLB? Supplemental support to expand plant growth regulator trials.	Florida
898	Dandekar, Abhaya	Rapid testing of next generation chimeric antimicrobial protein components	UC Davis
		for broad spectrum citrus	
		disease control	
899	Etxeberria, Ed	Strigolactones type growth regulators to combat HLB in Florida	University of
			Florida
903	Gruber, Barrett now	Establishing citrus nutrition trials for young & mature trees in the Indian	University of
	Brian Boman	River Region to promote plant growth, mitigate HLB, decrease fruit drop,	Florida
		and improve postharvest fruit storage properties	
907	Johnson, Evan	Zinkicide: A novel therapeutic zinc particulate based formulation for	University of
		preventing citrus canker and HLB.	Florida
909	Moudgil, Brij	Soft nanoparticle development and delivery of potential HLB bactericides	University of Florida
910	Powell, Chuck	An integrated approach for establishment of new citrus plantings faced with	University of
		the HLB threat	Florida
916	Wang, Nian	Screening and application of antibacterial producing microbes to control	University of
		citrus Huanglongbing	Florida
919	Dewdney, Megan	A method to monitor for Guignardia citricarpa (Gc) ascospores in Florida	University of
		groves.	Florida
921	Schneider, William L.	Determining the role of a novel virus in Citrus blight.	USDA-ARS
922	Wang, Nian	Control citrus canker by manipulating the EBE (effector binding element) of	University of
		CsLOB1 which is the citrus susceptibility gene for citrus canker disease	Florida
925	Dutt, Manjul	Diaprepes control using a plant based insecticidal transgene approach	University of
			Florida
926.1C	LaPointe, Stephen	Sub on Large-scale mating disruption of citrus leafminer validation and	USDA-ARS
		product launch	
926.2C	Stelinski, Lukasz	Sub on Large-scale mating disruption of citrus leatminer validation and	University of
026.26	Linutia M/IIIana	product launch	Florida
926.3C	Orrutia, William	Large-scale mating disruption of citrus learminer validation and product	
0270	Pogors Michael	Field Trial Support for CPDE CPDC	Linivorsity of
9270	Rogers, Michael		Florida
928.1C	Sutherland, Dudley	Field Trial of Naturally Occuring Microbes	
928.2C	Booker, Brad	Field Trials of Soil Microbials to combat HLB - Ridge Site crop Consultant	
928.3C	Yonce, Henry	Field Trials of Soil Microbials to combat HLB - Southwest FL Site crop Consultant	
928.4C	Wang, Nian	Field Trials of Naturally occuring microbes to combat HLB	University of Florida
929.2C	Rucks. Phil	Field Trial of HLB Tolerant Rootstocks	Rucks Nurserv
9310	Gonzalez Claudio	In Vitro testing of chemicals on tree leaves collected from HI B-infected trees	University of
0010		to determine their efficacy against HLB	Florida
932.1C	Keesling, James	Mathematical Modeling to evaluate Psyllid Shield Concept	University of
			Florida
933C	Minter, Tom	Oversee Field Trials of Plant Growth Regulators	
934.1C	, Wang, Nian	Soil Drenches of products to combat initial HLB infection in young citrus	University of
		trees	Florida
934C	Curtis, John	Soil Drenches of products to combat initial HLB infection in young citrus	
		trees	

Project No#	Principal Investigator	Project Title	Institution
9350	Wang, Nian	Assays - continuation testing of Powell RSA 1 - antimicrobials	University of
3330	Wang, Man		Florida
9360	Richardson Taw	Firewall Section 18 Granefruit Canker (and HLB) Field use Evaluation	
9370	Richardson, Taw	Firewall Canker Efficiency on Bound Oranges	AgroSource, Inc.
9370	Richardson, Taw	Large Scale Lab/Creenbourge/Field Trial Evaluation HLP	AgroSource, Inc.
9380	Richardson, Taw	Large Scale Lab/Greenhouse/Field Trial Evaluation - FLB	Agrosource, Inc.
9390	Richardson, Taw	Bactericidal Studies Section 18 Exemption/Section 3 Registration	Agrosource, Inc.
940C	Beeson, Richard C.	Propagation of Rootstock Tree Production in Greenhouses by Seed, Stem	University of
		Outplanting	Florida
941C	Pelz-Stelinski, Kirsten	Influence of Thermal Therapy on Transmission of Candidatus Liberibacter	University of
		asiaticus	Florida
942.1C	Minter, Tom	Field Trials of Plant Growth Regulators	
942.2C	Yonce. Henry	Field Trials of Plant Growth Regulators	
9430	Rogers Michael	Support for scale-up of Thermal Therapy Treatment: Evaluation before and	University of
5150	hogers, mender	after thermotherapy heat treatments to combat HIB	Florida
9440	Polz-Stolinski Kirston	RSA - Small plant assay for testing the efficacy of antimicrohial materials	Liniversity of
5440	r ciz stemiski, kristen	against HI R	Elorida
0450	Conzoloz Claudio	against field	Hoivorsity of
9450	Golizalez, Claudio	KSA - Kapid Evaluation method to evaluate drug's effectiveness directly nom	
0466	N	tree samples	Florida
9460	Nufarm	Mycoshield Magnitude of Residue Study for Citrus Crop Group.	NuFarm
15-002	Bowman, Kimberly	Development of Supersour and Other Promising Rootstocks for Florida.	USDA-ARS
15-003	Bowman, Kimberly	Metabolomic profiling to accelerate development of HLB tolerant rootstocks	USDA-ARS
15-005	Dewdney, Megan	Asexual inoculum production of Guignardia citricarpa, the causal agent of	University of
		citrus black spot	Florida
15-008	Etxeberria. Ed	Determination of CLas signal in HLB-affected citrus trees	University of
	,		, Florida
15-009	Gabriel. Dean	Exploiting the Las phage for potential control of HLB	University of
			Florida
15-010	Gmitter Fred	Development and Commercialization of Improved New Disease Resistant	University of
15 010		Scions and Rootstocks - the Key For a Sustainable and Profitable Florida	Florida
		Citrus Industry	
15-013	Grosser Jude	Understanding and Manipulating the Interaction of Rootstocks and Constant	Liniversity of
13-013	Glossel, Jude	Nutrition to Enhance the Establishment Longovity and Drofitability of Citrus	Elorida
		Nutrition to Enhance the Establishment, Longevity and Prontability of Citrus	FIORIDA
45.0466		Plantings in HLB-Endemic Areas.	
15-016C	Hall, David	High-Inroughput inoculation of Transgenic Citrus for HLB Resistance	USDA-ARS
15-017	Killiny, Nabil	Disrupt LuxR solo quorum sensing that mediates plant virulence and insect	University of
		transmission of Candidatus Liberibacter asiaticus to control the disease	Florida
15-020	Mou, Zhonglin	Create citrus varieties resistant to Huanglongbing (HLB) through transgenic	University of
		and nontransgenic approaches	Florida
15-021	Pelz-Stelinski, Kirsten	Regulation of Las transmission and microbial colonization by the Asian citrus	University of
		psyllid immune system	Florida
15-022	Reuber, T. Lynne	Engineering citrus for canker resistance	Two Blades
15-023	Schumann, Arnold	Citrus nutrition studies for improved survival of HLB-affected trees	University of
			Florida
15-024	Stelinski, Lukasz	Predicting When, Why, and Where Asian citrus psyllids move to increase	University of
	,	effectiveness of insecticide sprays.	Florida
15-025	Stover, Ed	HIB Resistance and Tolerance in Citrus Scion Breeding	USDA-ARS
15-025	Stover Ed	Implementing Transgenic Tools to Produce Commercial Scion Cultivare	
13-020		Resistant to HIR and Canker	0504-4115
15.007	Triplatt Fric	Developing a sulture modium for Liberite star existing through a surtice	Linivorsity of
15-027	i lipiett, Eric	Developing a culture medium for Liberibacter asiaticus through comparative	University of
		multi fomics analysis with its closest cultured relative, L. crescens	Fiorida
15-028	Wang, Nian	Control citrus Huanglongbing (HLB) by counteracting the SA hydroxylase of	University of
		Candidatus Liberibacter asiaticus	Florida

Project No#	Principal Investigator	Project Title	Institution
15-030C	Rogers, Michael	Continuing Field Trial Support for CRDF CPDC	University of
			Florida
15-031C	Etxeberria, Ed	Development of a laser-based system to deliver antimicrobials to citrus	University of
		trees: Greenhouse testing.	Florida
15-032C	Irey, Mike	Continued Support for the Southern Gardens Diagnostic Laboratory	Southern Gardens
15-033C	Orbovic, Vladimir	Support role of the Citrus Core Transformation Facility remains crucial for	University of
		research leading to production of Citrus plants that may be tolerant or	Florida
		resistant to diseases.	
15-034C	Roberts, Pam	Continuation of diagnostic service for growers for detection of	University of
		Huanglongbing in citrus and psyllids to aid in management decisions	Florida
15-035C	Rogers, Michael	Continuing support of Citrus Health Management Areas (CHMA's)	University of
			Florida
15-036C	Rogers, Michael	Correlating pesticide residue analysis with psyllid feeding to improve	University of
		protection of young trees	Florida
15-037C	Santra, Swadeshmukul	T-SOL [™] antimicrobial for the management of citrus canker and HLB	UCF
15-038C	Stelinski, Lukasz	Insecticide resistance monitoring and management in Florida citrus to	University of
		maintain sustainable control of Asian citrus psyllid within Citrus Health	Florida
		Management Areas	
15-039C	Stover, Ed	Secure site for testing transgenic and conventional citrus for HLB and psyllid	USDA-ARS
		resistance	
15-040C	Triplett, Eric	Rapid turn-around evaluation of up to 1200 promising antimicrobial	University of
		compounds (or combinations), using the L.crescens assay	Florida
15-042	Wang, Nian	Control citrus Huanglongbing using endophytic microbes from survivor trees	University of
			Florida
15-043C	Wang, Nian	Rapid turn-around evaluation of up to 25 antimicrobial compounds for	University of
		efficacy in reducing titers of the bacterium Candidatus Liberibacter on	Florida
		diseased 6-year old trees Hamlin on Swingle.	
15-045C	Zale, Janice	Continued Funding for the Mature Citrus Facility to Produce Disease	University of
		Tolerant, Transgenic Citrus	Florida
15-046C	Curtis, John	Evaluation of GRAS/biopesticide products as a protectant and therapy for	
		HLB on Valencia oranges.	
15-048C	Minter, Iom	Field Trials of Bactericide Application Methods.	
15-049C	Booker, Brad	Evaluation of GRAS/biopesticide products as a protectant and therapy for	
15.0500	Debley, Freedulin	HLB on valencia oranges.	Funda aiturua
15-050C	Beniau, Franklin	Effect of windbreaks, copper bactericides and citrus lear miner control on	Fundecitrus
10.001	1:	Temporal and spatial progress of citrus canker	
16-001	LI	Enhancing Genetic Transformation Efficiency of Mature Citrus	Uconn
16-005	wang	GFP labeling of Candidatus Liberibacter asiaticus in vivo and its applications.	University of
16.007	Duan	Field avaluation of the calacted variants of Pubu Dad granefruit valuateer	
10-007	Duan	Field evaluation of the selected variants of Ruby Red graperfult volunteer	USDA-ARS
16,0000	Triplatt	Seedings for greater HLB resistance/tolerance.	Linivarsity of
10-0090	Thpiett	disease	Elorida
16.0100	Dowdpov	Enhancement of nesthloom fruit drop control measures	Hoivorsity of
10-0100	Dewuney	Liniarcement of postbloom in all drop control measures.	Elorida
16-0110	Adair	Increasing the yield and decreasing the hearing age of citrus trees in new	Florida Research
10 0110		nlantings by using metalized reflective mulch while determining ACP	Center
		nonulations	Center
16-0120	Trinlett	Antimicrohial assay for inhibition of Liberihacter crescens, the closest	Liniversity of
10 0120		cultured relative of the citrus greening nathogen Call asiaticus PCA	Florida
16-0150	Irev RSA	Enhanced Fruit Quality Assessment from Field Trials PSA	Southern Gardens
16-0160	Irey RNΔi	Use of RNAi delivered by the Citrus Tristaza Virus Cital Vector to control the	Southern Gardens
10 0100		Asian Citrus Psyllid	
16-0170	Tetard	Quantitative Detection and Manning of Bactericides in Citrus	LICE
16-0190	Pelz-Stelinski	RSA - Small plant assay for testing the efficacy of antimicrohial materials	University of
		against HLB.	Florida

16-020CVincentDyed kaolin to repel Asian citrus psyllid in field conditions.University of Florida16-022CRichardsonLarge Scale Lab/Greenhouse/Field Trial Evaluation - HLBAgroSource, Inc.16-023CEtxeberriaDetermining the Efficacy of a New Class of Adjuvants in Increasing Penetration of Antimicrobials into Citrus Leaves.University of Florida16-024CAblesA Review of the Citrus Greening Research and Development Efforts Supported by the Citrus Greening Research and Development Efforts Supported by the Citrus Greening Research and Development Foundation.Ablate BioTech LLC16-025.1CDrouillardComparison of chemical uptake with laser ablation and conventional follar application - Phase One.Ablate BioTech LLC16-025.2CBookerComparison of chemical uptake with laser ablation and conventional follar application - Phase One.University of Florida16-025.3CWangQuantification of oxytetracycline in plant samples.University of Florida16-026CBayer Crop ScienceEstablishment and application of tools to allow a systematic approach to identify and characterize hits with confirmed in planta HLB activity.BCS16-027CFuthDetermine impact of Regione application on killing abandoned citrus trees in mature groves - A demonstration.University of Florida17-001CStelinskiInsecticide resistance management in Florida citrus production.University of Florida17-005CVincentEffects of heat treatments on antimicrobial uptake and translocation in after application of streptomycin and oxytetracycline.Horida <td< th=""></td<>
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18-016 McNellis Tim Testing granefruit trees expressing an anti-NodT antibody for resistance to Penn State
H B
18-017 Mou Zhonglin Establish early-stage field trials for new HI B-tolerant canker-resistant Liniversity of
transgenic scions
18-018 Pelz-Stelinski Kirsten Disrupting transmission of Candidatus Liberbacter asiaticus with Liniversity of
antimicrobial therapy
18-019 Rogers, Elizabeth F. Phloem specific responses to CLas for the identification of novel HLB LISDA-ARS
Resistance Genes
18-020 Santra Swadeshmakul Novel multi-metal systemic bactericide for HLB control Liniversity of
Control Florida
18-022 Stover, Ed Delivery of Verified HI B-Resistant Transgenic Citrus Cultivars LISDA-ARS
18-024 Triplett, Fric W. Foliar phosphate fertilization: a simple inexpensive and unregulated University of
approach to control HLB
18-025 Wang, Nian Optimization of the CRISPR technology for citrus genome editing University of
Florida

Project No#	Principal Investigator	Project Title	Institution
18-026	Wang, Nian	Control citrus Huanglongbing by exploiting the interactions	University of
		between Candidatus Liberibacter asiaticus and citrus	Florida
18-028C	Albrecht, Ute	Comparison of field performance of citrus trees on rootstocks propagated	University of
		by seedlings, cuttings, and tissue culture	Florida
18-029C	Albrecht, Ute	Evaluation of citrus rootstock response to HLB in large-scale existing field	University of
		trials using conventional and automated procedures	Florida
18-032C	Alferez, Fernando	Preventing young trees from psyllids and infection with CLas through use of	University of
		protective netting	Florida
18-033C	Ampatzidis, Yiannis	Automated root mapping to enhance field trial evaluation of citrus	University of
10.0240	Davida an Marana	rootstocks in the HLB era	Florida
18-034C	Dewdney, Megan	Improved postbloom truit drop management and exploring PFD spread in	University of
18.0200	Dunana Lanni	FIORIDA	FIORIDa
18-036C	Duncan, Larry	cover crops and nematicides: comprehensive nematode iPivi across the	University of
19 0270	Forrarazi	Berformance of neurly released grapofruit cultivers and reatstacks in the	FIOTUd
18-037C	rendrezi	Indian Bivor Citrus District	Elorido
19 0200	Grossor Judo W	Part P. The LIE/CREC Citrus Improvement Program's Field Trial Evaluations	FIDFIDA
18-0390	Glossel, Jude W.	(Complementary to Part A - The UE/CREC Core Citrus Improvement	Florida
		Program being submitted as an BMC proposal)	lionua
18-0400	He 7henli	Evaluation of the spatiotemporal dynamics of hactericides within the citrus	University of
10 0400		tree via different annlication methods	Florida
18-0410	Johnson Evan	Characterizing HLB-pH interaction to improve management of root function	University of
10 0410		and tree health	Florida
18-0420	Kadvampakeni, Davie	Development of Root Nutrient and Fertilization Guidelines for	University of
10 0 120		Huanglongbing (HLB)-Affected Orange and Grapefruit	Florida
18-050C	Niedz. Randall P.	The effect of the ionization state of iron and citric acid on the health of HLB-	USDA-ARS
		infected trees.	
18-051C	Pelz-Stelinski, Kirsten	Improving bactericide therapy for young tree protection and inoculum	University of
		reduction	Florida
18-052C	Qureshi, Jawwad	Sustainable Management of Asian citrus psyllid (ACP) and Citrus Production	University of
			Florida
18-055C	Qureshi, Jawwad	Optimizing Benefits of UV Reflective Mulch in Solid Block Citrus Plantings	University of
			Florida
18-056C	Stelinski, Lukasz	Functional IPM for Asian citrus psyllid under circumstances of chronic HLB	University of
			Florida
18-058C	Stover, Ed	Fort Pierce Field Test Site for Validating HLB and/or ACP Resistance	USDA-ARS
18-059C	Strauss, Sarah	Citrus row middle management to improve soil and root health	University of
			Florida
18-061C	Vashisth, Tripti	Evaluating sustainability of yield and fruit quality of sweet oranges with use	University of
		of controlled release fertilizer and micronutrients	Florida
18-064C	Wang, Nian	Evaluation of the control effect of bactericides against citrus Huanglongbing	University of
		via trunk injection	Florida
18-065C	Stover	High-Throughput Inoculation of Transgenic Citrus for HLB Resistance	USDA-ARS
18-066C	Orbovic, Vladimir	Support role of the Citrus Core Transformation Facility remains crucial for	University of
		research leading to production of Citrus plants that may be tolerant or	Florida
10.0070		resistant to diseases.	
18-067C	Zale, Janice	Continued Funding for the Mature Citrus Facility to Produce Disease	University of
10.0010		Tolerant, Transgenic Citrus.	Florida
19-0010	Irey, IVIKe	Continued Support for the Southern Gardens Diagnostic Laboratory	Southern Gardens
19-002	Stellnski, Lukasz	why spray if you don't need to? Putting the IPM back into citrus IPM by	UF-UKEU
10.000	lohnson Even	ground truthing spray thresholds	Linivorsity of
13-003	Johnson, Evan	whole tree vs. rootstock or scion tolerance to HLB	Elorido
10.010	Johnson Evan	Determining new cost honofit guided Phytophthere propagule treatment	
19-010	Dewdpey Magan	thresholds for HLB-affected citrus	Elorida
10_015	Killiny Nahil	Evaluation of the tolerance of newly developed citrus cultivare, on different	Liniversity of
19-013		rootstocks to Huanglongbing	Florida
			1.0100

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19-016	Duncan, Larry	How do subterranean pests and diseases affect root health of trees with and without HLP2	University of
10.020	Ditonour Mark A	Willioul FLD:	
19-020	Ritenour, Mark A.	Improved Data Collection for Citrus Field Thais	Florida - IRREC
19-023	Vincent, Christopher	Which commercial adjuvants achieve systemic delivery of antimicrobials?	University of Florida
19-024	Wang, Yu	Near-term approaches of using alternative HLB-tolerant cultivars for increased production and improved juice guality	University of Florida
19-027	Zchori-Fein, Einat	Large-scale testing of the endophytic bacterium Frateuria defendens, a potential biocontrol agent of HLB	Agricultural Research Organization
19-029C	Carlson, Kristen	Citrus Research and Field Trials (CRAFT) Program Year One	CRAFT, Inc.
19-030C	Albrecht, Ute	Use of compost and interaction with low- and high-vigor rootstocks to accelerate young sweet orange tree establishment and enhance productivity.	University of Florida
20-002C	Diepenbrock, Lauren	Developing near and long-term management strategies for Lebbeck mealybug (Nipaecoccus viridis) in Florida citrus	University of Florida
20-003	Ferrarezi, Rhuanito	Fertilization of high-density plantings	University of Florida
20-004	Kadyampakeni, Davie (Johnson, Evan)	Organic acids compared to conventional acidification for improved nutrient uptake and root physiology	University of Florida
20-011	Vashisth, Tripti	Right Leaf Sampling-The first and most critical step to good nutrition program	University of Florida
20-014	Dutt, Manjul	Understanding the role of systemic acquired resistance (SAR) in enhancing tolerance to HLB in the Parson Brown sweet orange	University of Florida
20-015C	Leslie, Michele Elemental Enzymes	Vismax™: A novel peptide-based therapeutic for mitigation of citrus diseases, including HLB	Elemental Enzymes
20-018C	Davis, Christine (UCD) NIFA Subaward	Collaborative approach between academics, growers and agrochemical industry to discover, develop and commercialize therapies for citrus huanglongbing (HLB)	UC Davis
20-019C	Mandadi, Kranthi (TAMU) NIFA Subaward	Collaborative approach between academics, growers and agrochemical industry to discover, develop and commercialize therapies for citrus huanglongbing (HLB)	TAMU AgriLife
20-020C	Batuman, Ozgur (UF) NIFA Subaward	Collaborative approach between academics, growers and agrochemical industry to discover, develop and commercialize therapies for citrus huanglongbing (HLB)	University of Florida
20-021C	Carlson, Kristen (CRAFT)	Citrus Research and Field Trials (CRAFT) Program Year Two	CRAFT, Inc.
21-001	Pederson, Clay	Trees for Rootstocks Grower Cooperator Phase 3 Trials	Agromillora
21-002C 21-003	Irey, Mike Jin, Hailing	Continuing Support for the Southern Gardens Diagnostic Laboratory Using a stable antimicrobial peptide with dual functions of treating and preventing citrus Huanglongbing	Southern Garden UC Riverside
21-004C	CRAFT, Inc.	Large Scale Field Trials	CRAFT, Inc.
21-005	Albrecht, Ute	Comparison of field performance of citrus trees on rootstocks propagated by seed, cuttings, and tissue culture	University of Florida
21-007	Alferez, Fernando	Reducing fruit drop by altering hormonal responses within the tree through nutritional and hormonal therapies: a mechanistic affordable approach	University of Florida
21-008	Bowman, Kim D.	Development of Next-Generation SuperSour rootstocks with tolerance to HLB	USDA-ARS
21-012	Dewdney, Megan	Evaluating the role of greasy spot and peel disorders in the greasy green defect on citrus fruit	University of Florida
21-013	Duncan, Larry	Integrated management of sting nematode in newly planted citrus trees.	University of Florida
21-014	El Mohtar, Choaa	CTV-T36 vectors as a tool to induce efficient flowering in citrus seedlings	University of Florida
21-021	Pelz-Stelinski, Kirsten	CLas Inhibition with Antisense Oligonucleotides for Management of Citrus Greening Disease	University of Florida

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21-024	Schumann, Arnold	Determine optimal timing for application of fertilizer to improve fruit quality	University of
		and reduce preharvest drop	Florida
21-025	Shatters, Robert (E. Stover proposal, retired)	Transgenic capable field site to assess HLB-resistant and other improved citrus	USDA-ARS
21-028	Wang, Nian	Generation of non-transgenic HLB-resistant sweet orange varieties using	University of
		CRISPR-Cas technology	Florida
21-032	Albrecht, Ute	Assist with CRDF Phase 3 Rootstock Field Trials	University of Florida
21-033	Albrecht, Ute	Subcontract to 18-004 K.Bowman bridge funding extension, Development of SuperSour and other outstanding rootstocks with tolerance to HLB	University of Florida
21-035	Albrecht, Ute	Subcontract to 21-008 K. Bowman: Development of Next-Generation	University of Elorida
22-001	Albrecht Lite	Directed research – Evaluation of different trunk injection devices and	University of
22 001		oxytetracycline formulations for efficacy against HLB, phytotoxicity, and feasibility	Florida
22-002	Santra, Swadeshmakul	Management of tree health and huanglongbing disease pressure using advanced Zn formulations	University of Central Florida
22-003	Alferez, Fernando	Determining best timing for Brassinosteroid (Brs) application to achieve maximum beneficial effects on citrus tree health and fruit yield and quality	University of Florida
22-006	Curtis, John	CRDF Study on Preharvest Fruit Drop Prevention Using Plant Growth Regulators (PGRs)	Better Crops LLC
22-007	Alico, Inc.	Grower Cooperator - CRDF Rootstock Trials	Alico
22-008	Laurent, George	Grower Cooperator - CRDF Rootstock Trials	Center Ridge Caretaking
22-009	Thayer, Thomas A. Jr.	Trees for Scion Trials	Southern Citrus
22-010	Wood, Tamara	Large Scale Field Trials Cycle IV	CRAFT, Inc.
22-011	Chater, John	Using high-throughput phenotyping to screen germplasm and ongoing field trials for promising citrus accessions in HI B-endemic Florida	University of Florida
22-012	Niedz, Randall	Identifying Healthy Individuals in the USDA -ARS Citrus Breeding Program and Replicated Second Stage Trials Using Drone Technology and Subsequent Image Analysis	USDA-ARS
22-013	Diepenbrock, Lauren	Getting to the root of the problem: Managing Diaprepes root weevil on trees with HLB	University of Florida
22-014	Diepenbrock, Lauren	Developing management for Bulimulus bonariensis snails in Florida citrus	University of Florida
22-016	Dutt, Manjul	Preliminary field trial to evaluate the ability of HLB tolerant rootstocks to protect commercial scions against HLB.	University of Florida
22-017	Levy, Amit	Improving the Systemic Uptake of Therapeutic Compounds by Trunk	University of
22-019	Dutt, Manjul	Understanding the HLB tolerance and reduced fruit drop in Parson Brown	University of
22-020	Turgeon, Robert	Protecting citrus trees from citrus greening with anchored, single-chain	Cornell University
23-001	Stelinski, Kirsten	Effects of trunk-injected oxytetracycline on tree infection and health, psyllid	University of
23-002	Albrecht, Ute	OTC Directed Research Solicitation: Use of CRDF Rootstock Trial Locations for Testing Bactericides Inserted into Trees Through Systemic Delivery Devices	University of Florida
23-003	Ritenour, Mark	Evaluation of Potential HLB Tolerant Grapefruit Rootstock/Scion Combinations in Florida	University of Florida
23-004	Wood, Tamara	CRAFT Existing Trees Therapies Program: Phase Targeting CRDF and Their Priorities	CRAFT, Inc.
23-005	Albrecht, Ute	Bac. Trial 1: Use of CRDF Rootstock Trial Locations for Testing Bactericides Inserted into Trees Through Systemic Delivery Devices	University of Florida

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23-006	Deng, Zhanao	Evaluating Novel Gene-edited Duncan Grapefruit Mutants for Resistance to	University of
		Huanglongbing (HLB)	Florida
23-009	Curtis, John	Bac. Trial 2: Use of Bactericide in Combination with GA and 2,4-D (Plant	Better Crops, LLC
		Growth Regulator) (Separate from ongoing CRDF PGR Trials)	
23-010	Curtis, John	Bac. Trial 3: Impact of Bactericides inserted through systemic delivery on	Better Crops, LLC
		improving tree health and root density over time	
23-011	Curtis, John	Bac. Trial 5: Alternative Insertion Sites for Bactericides	Better Crops, LLC
23-012	Yonce, Henry	Bac. Trial 6: Bactericide Combined with Vismax TM	BioTek Agriculture
			USA
23-013	Yonce, Henry	Bac. Trial 8: Yield Comparison Bewteen Bactericide and Non-treated Control	BioTek Agriculture
		Blocks on Yield and Tree Health	USA
23-014	Batuman, Ozgur	Determining the effect of oxytetracycline when rotated with additional crop	University of
		antimicrobials on citrus phytotoxicity and CLas reduction	Florida
23-018	Mandadi, Kranthi	Truck injection-based evaluation of novel anti-CLas chemistries and OTC	TAMU AgriLife
		combinations for Florida citrus and HLB disease management	
23-019	Yonce, Henry	Tank mix 3-day test of 2 products	BioTek Agriculture
			USA
23-020	Black, Larry	Participation in CRDF Rootstock Trials	Peace River
			Packing Company
23-021	Brlansky, Ron	Improved Diagnostics and Determination of Triggers for Citrus Blight	University of
			Florida
23-025	Minter-Yonce	Evaluation of PT 150, PT 159, and TPR 1 for ACP and HLB control in Florida	Minter Family
		Citrus.	Farms
23-026	Wood, Tamara	Large Scale Field Trials and Existing Tree Therapies Cycle V	CRAFT 5.0
23-027	Wang, Yu	Exploring the efficacy of natural antibacterial agents for CLas control via	University of
		trunk injection	Florida
23-029	Chater, John	Consolidation of citrus breeding plant material to vacate space for Stage I	University of
		and Stage II field trials and to exploit tolerant germplasm for gene editing	Florida
		strategies.	
23-030	Mou, Zhonglin	Evaluate new transgenic rootstocks for HLB tolerance	University of
			Florida
23-031	Johnson, Weston TCCC	Accelerate Establishment of Stage 2 Citrus Trials to Combat Citrus Greening	The Coca Cola
		Disease	Company
23-032	Triplett, Eric	Proof of concept for phage therapy in the reduction CLas titer and HLB	University of
		symptoms in citrus	Florida
23-034	Messina, Charles	Taking aim at Citrus Greening: Activating the IFAS Crop Transformation	University of
		Center (ICTC) to implement an idea to product framework	Florida
23-035	Yonce, Henry	RFP 1: Phos acid & Copper	BioTek Agriculture
			USA
23-036	Albrecht, Ute	RFP 2: OTC in a pH neutral solution	University of
			Florida
23-037	Chaires, Peter	M. Mattia, USDA-ARS, re-fly and data collection	FL Citrus Research
			Fdn.
23-038	Schirard, Pat	Grower Cooperator - field trials of molecules for their ability to mitigate the	Patrick Fruit
1		effects of HLB on citrus trees	Company