

Listing of all CRB-funded research projects for 2016-17 fiscal year.

NUMBER	TITLE	PRINCIPAL INVESTIGATOR	AFFILIATION	BOARD APPROVED BUDGET
5100 - Production Efficiency				
Continuing Projects				
5100-153	Real time-PCR Co-detection of ' <i>Candidatus Liberibacter</i> ' species and <i>Spiroplasma citri</i>	Vidalakis & Osman	UC Riverside, UC Davis	\$ 6,000.00
5100-155	Citrus rhizobiomes and tree productivity in response to soil manipulations	Leveau	UC Davis	\$ 85,050.00
5200 - New Varieties Development				
Continuing Projects				
5200-141	The development of novel Blood and Cara cara like citrus varieites	Thomson	USDA-ARS	\$ 3,555.00
5200-142	Utilization of founder lines for improved citrus biotechnology via RMCE	Thomson	USDA-ARS	\$ 109,775.40
5200-146	Rapid cycling plant breeding in citrus	Moore	University of Florida	\$ 164,604.00
5200-147	Evaluation of hybrids of citrus and citrus relatives for huanglongbing (HLB) tolerance or resistance	Ramadugu	UC Riverside	\$ 80,000.00
5200-149	Streamlining the introduction of license citrus varieties into California: A case study-Florida	Vidalakis	UC Riverside	\$ 30,000.00
5200-150	Optimizing sensory quality and consumer acceptance of citrus fruit through horticultural practices	Guinard	UC Davis	\$ 61,393.00
5200-201	CORE: Integrated citrus breeding and evaluation for California	Roose & Kahn	UC Davis	\$ 757,670.00
New Projects				
5200-151	Developing improved gene-editing technologies for citrus	Irish	Yale University	\$ 129,387.00
5200-153	Development of "all Plant" transgenic citrus with potential broad spectrum disease resistance using gene gun	Louzada	TAMU-Kingsville Citrus Center	\$ 145,294.00
5300 - Vectored Diseases				
Continuing Projects				
5300-150	Biomarkers for detection of Liberibacter infection in citrus trees through ¹ H-NMR-based metabolomics	Slupsky	UC Davis	\$ 212,699.00
5300-155	Using mass spectrometry technologies to develop novel citrus insect vector management tools	Cilia	USDA-ARS, Univ. Washington	\$ 193,165.00
5300-158	Construction of the cloned infectious cDNA of Citrus tristeza virus (California isolate): a critical step in developing the tool for RNA interference-mediated inhibition of insect pests and pathogens of citrus in California	Ng	UC Riverside	\$ 32,498.00
5300-161	Infrastructure support for research on detection and management of huanglongbing and Asian citrus psyllid	Godfrey	UC Davis	\$ 108,514.00
5300-163	Not all psyllids are created equal: Why do some transmit Liberibacter and others do not?	Cilia	USDA	\$ 227,924.00
5300-164	A microbiota-based approach to citrus tree health	Leveau & Rolshausen	UC Davis, UC Riverside	\$ 205,008.00
5300-165	Development of mature budwood formation technology	Thomson	USDA-ARS	\$ 132,714.00
5300-169	Artificial microRNA-based targeting of the Asian citrus psyllid for HLB management	Falk	UC Davis	\$ 88,937.00
5300-170	Develop a novel target-basis of anti-virulence strategy for controlling HLB	Lin	USDA-ARS	\$ 93,404.00
5300-171	Photosynthate-responsive polymeric nano-carriers for phloem-specific delivery in the treatment of HLB	Sumerlin	University of Florida	\$ 126,561.00
5300-172	Development of PCR-based diagnostic tools for detection and differentiation of Citrus leprosis associated viruses	Schneider	USDA-ARS	\$ 108,813.00
New Projects				
5300-173	Effect of mixed infections of plant pathogens on detection of HLB using two early detection methods	Godfrey	UC Davis	\$ 182,064.00
5300-176	Improving early detection of HLB via ACP nymph/citrus flush sampling	McCullum	USDA-ARS	\$ 149,737.00
5300-177	Interaction of endemic plant pathogens with ' <i>Candidatus Liberibacter asiaticus</i> ' in citrus	Godfrey	UC Davis	\$ 53,994.00
5300-178	FL-1 Longitudinal (time course) study of HLB EDT suspect trees in Florida and California	McRoberts	UC Davis	\$ 228,568.00
5300-179	Next generation sequencing as a CCPP routine diagnostic tool for citrus variety introduction	Vidalakis	UC Riverside	\$ 76,200.00
5300-181	California-1B	McRoberts	UC Davis	\$ 132,423.00
Sub-awards				
5300-154	Risk-based decision making in the management of huanglongbing (CPDPP) ^a	Gottwald	USDA-ARS	\$ 231,072.00
5300-182	HLB DATOC: Data Analysis and Tactical Operations Cell (CPDPP)	McRoberts	UC Davis	\$ 170,000.00
5300-183	Engaging non-English speaking citrus hobbyists to reduce spread of ACP and HLB (CPDPP)	Willey	fruitmentor	\$ 85,300.00
5400 - Non-Vectored and Post-harvest Diseases				
Continuing Projects				
5400-103	Evaluation of new post-harvest treatments to reduce post-harvest decays in packinghouse operations	Adaskaveg	UC Riverside	\$ 57,000.00
5400-119	Disease forecasting and management of Septoria spot of citrus	Adaskaveg	UC Riverside	\$ 50,000.00
5400-148	Epidemiology and management of Phytophthora diseases of citrus in California	Adaskaveg	UC Riverside	\$ 134,000.00
New Projects				
5400-151	Control of Mucor rot and gray mold on citrus fruit	Xiao	USDA-ARS	\$ 66,000.00
5400-152	Investigating the role of <i>Colletotrichum karstii</i> in twig and branch dieback of citrus in California	Eskalen	UC Riverside	\$ 51,400.00
Sub-awards				
5050-010	Breaking critical pest-related trade barriers for California citrus exports (TASC) ^b	Walse	USDA-ARS	\$ 495,964.00
5500 - Pest Management				
Continuing Projects				
5500-189	Optimizing chemical control of Asian citrus psyllid in California	Grafton-Cardwell	UC Riverside	\$ 115,087.00
5500-191	Host specificity testing of <i>Diaphorocyrtus aligarhensis</i>	Hodde	UC Riverside	\$ 145,574.00
5500-194	Release and monitoring of <i>Tamarixia radiata</i> and phenology of Asian citrus psyllid in Southern California	Hodde	UC Riverside	\$ 169,397.00
5500-208	Effects of ACP cover sprays against fruit flies (<i>Tephritidae</i>) and their natural enemies	Vargas	USDA-ARS	\$ 30,000.00
5500-501	CORE: IPM Program	Grafton-Cardwell	UC Riverside	\$ 418,642.00
New Projects				
5500-209	Breaking critical pest-related trade barriers for California citrus exports	Walse	USDA-ARS	\$ 77,397.00
5500-211	Citrus undercover production system (CUPS) for California	Rolshausen	UC Riverside	\$ 20,000.00
5500-212	Laboratory equipment at LREC	Douhan	UCCE-Tulare	\$ 39,000.00
Sub-awards				
5500-196	Biological control of Asian citrus psyllid in California (CPDPP)	Stouthamer	UC Riverside	\$ 171,807.00
6302	CalPoly field plots (APHIS) ^c	N/A	Cal Poly Univ., Pomona	\$ 11,000.00
6310	Contract production of <i>Tamarixia radiata</i> (APHIS)	Barcinas	Foothill Ag Research	\$ 235,045.00
6320	Development of mass-rearing methods for parasitoid, <i>Tamarixia radiata</i> (APHIS)	Stouthamer	UC Riverside	\$ 119,944.00
6321	Development of mass-rearing methods for parasitoid, <i>Tamarixia radiata</i> (APHIS)	Hodde	UC Riverside	\$ 106,346.00
6100	CORE: Citrus Clonal Protection Program	Vidalakis	UC Riverside	\$ 437,786.00

a Funding was provided by the CDFA California Pest & Disease Protection Program (CPDPP)

b Funding was provided by the USDA Technical Assistance for Specialty Crops (TASC)

c Funding was provided by the USDA Animal and Plant Health Inspection Service (APHIS)

TOTAL \$ 7,363,712.40