

Project Num.	Amount Requested	Amount Awarded	Principal Investigator	Proposal Title	Project Year	Comments
Education						
ED-2023-1	\$20,000.00	\$20,000.00	Julia Stover-Blackburn	California Pistachio Nitrogen and Potassium Prediction Model	1 of 1	
ED-2023-2	\$30,000.00	\$30,000.00	Julia Stover-Blackburn	California Pistachio Research Board Event Facilitation	4 of 10	
Entomology						
ENT-2023-4	\$46,017.00	\$46,017.00	Kent Daane	Seasonal biology and controls of the Gill's mealybug in pistachio	3 of 3	(March 2023-February 2024)
ENT-2023-5	\$29,544.00	\$29,544.00	David Haviland	Optimizing chemical control programs for Gill's mealybug in pistachios	1 of 1	
ENT-2023-7	\$80,000.00	\$80,000.00	Joel Siegel	Improved control of navel orangeworm: focus on increasing insecticide efficacy using adjuvants and improved timing	5 of 5	
ENT-2023-8	\$164,417.00	\$164,417.00	Houston Wilson, Chuck Burks	Producing sterile navel orangeworm on demand for improvement of pest management.	3 of 3	Wilson \$101,249; Burks \$50,087; Bansal \$13,081
ENT-2023-9	\$56,561.00	\$56,561.00	Houston Wilson	Spatiotemporal Models to Evaluate the Potential Value of Sterile Insect Technique for Control of Navel Orangeworm	2 of 2	Wei \$50,439; Goodrich \$6,122
ENT-2023-10	\$32,787.00	\$32,787.00	Houston Wilson	Optimizing pheromone-based monitoring of leaffooted bugs (Leptoglossus spp.) infesting California nut crops	1 of 1	Millar \$6,765; Wilson \$26,022
ENT-2023-11	\$69,929.00	\$69,929.00	Houston Wilson	Evaluating the Relationship Between Pistachio Hull Degradation and NOW Egg Deposition	1 of 2	Wilson \$42,859; Burks \$13,565; Wang \$13,505
ENT-2023-12	\$20,804.00	\$20,804.00	Houston Wilson	Impacts of Sheep Grazing on Pistachio Orchard Sanitation	1 of 1	
Food Safety						
FS-2023-13	\$72,806.00	\$72,806.00	Themis J. Michailides	A survey of fungi producing Ochratoxin A in California pistachios and management of contamination in the field	4 of 4	
FS-2023-42	\$78,720.00	\$78,720.00	Themis J. Michailides	Comparing efficacy of two registered atoxigenic strains biocontrol products to reduce aflatoxin contamination and expanding Area-wide Long-term Mycotoxin Management Programs	2 of 3	
Horticulture: Agronomics						
HA-2023-14	\$91,352.00	\$91,352.00	Douglas Amaral	Assessing Nitrogen Uptake to Develop Best Management Practices and Early Leaf Sampling Protocols for Pistachio Cultivars 'Lost Hills' and 'Golden Hills'	3 of 3	
HA-2023-15	\$115,047.00	\$115,047.00	Louise Ferguson	Saline Irrigation Strategies for Pistachios	2 of 3	
HA-2023-16	\$26,547.33	\$26,547.33	Phoebe Gordon	Determining non-bearing pistachio nitrogen and phosphorus needs	2 of 4	
HA-2023-19	\$100,148.00	\$100,148.00	Bruce Lampinen and Mae Culumber	Evaluating new training systems for pistachio	5 of 7	Lampinen \$65,652.00, Culumber \$34,496.00
HA-2023-20	\$114,800.00	\$114,800.00	Daniele Zaccaria	Investigating the effects of winter cover cropping on the radiation balance, soil-water dynamics, and water productivity of mature, micro-irrigated pistachio orchards over the crop season 2023	2 of 3	

HA-2023-21	\$155,500.00	\$155,500.00	Daniele Zaccaria	measuring the evapotranspiration (ET) and crop coefficients (Kc) of well-watered, young pistachio orchards grown with winter cover cropping and clean-cultivated ground for use in water resource planning and irrigation scheduling	1 of 5	
Horticulture: Genetics						
HG-2023-22	\$225,509.00	\$225,509.00	Pat J. Brown	Pistachio Improvement Program	1 of 1	
HG-2023-23	\$150,970.00	\$150,970.00	Pat J. Brown	Collaborative Pistachio Rootstock Breeding	1 of 1	Brown - \$56,788.00 / Trouillas 52,119.00 / Michailides \$42,063.00 = \$150,970.00
HG-2023-24	\$34,781.00	\$0.00	Georgia Drakakaki	Characterization of localized hull breakdown events for vulnerability to pest and pathogens	3 of 3	
HG-2023-25	\$14,534.00	\$14,534.00	Giulia Marino	Clonal propagation of U.C. Experimental Rootstock Selections to develop field evaluation trials with Existing Commercial Rootstocks	1 of 8	
HG-2023-28	\$138,769.00	\$138,769.00	J. Grey Monroe	Pistachio Pan-genome for Accelerated Breeding	3 of 3	
HG-2023-40	\$53,447.00	\$53,447.00	Christine Diepenbrock	Dissecting the genotypic and environmental basis of kernel compositional traits in pistachio	2 of 2	
Horticulture: Physiology						
HP-2023-31	\$95,489.00	\$95,489.00	Barbara Blanco-Ulate	Effect of bloom time and spring temperatures on pistachio hull integrity and nut quality	2 of 2	
HP-2023-32	\$41,819.00	\$41,819.00	Gurreet Brar	Do cover crops help lower canopy temperatures and enhance chill accumulation in Pistachios?	2 of 2	
HP-2023-33	\$95,277.00	\$95,277.00	Georgia Drakakaki	Investigating Chemical Composition and Morphogenesis of Pistachio Internal Kernel Discoloration	1 of 3	
HP-2023-34	\$61,822.10	\$61,822.10	Phoebe Gordon	Determining severity of Internal Kernel Discoloration Incidence in Pistachio Cultivars, year 2	2 of 3	
HP-2023-41	\$64,597.00	\$64,597.00	Li Tian	Gene expression marker-enabled precise and reliable application of rest-breaking enhancing chemicals	1 of 2	
Pathology						
PA-2023-37	\$68,601.00	\$68,601.00	Themis J. Michailides	Quantification and management of fungicide resistance in Alternaria populations causing Alternaria la	3 of 3	
PA-2023-38	\$78,101.00	\$78,101.00	Florent Trouillas	Evaluating the Efficacy of Phosphites, Mefenoxam and New Oomycota Fungicides for Managing Phytophthora Crown and Root Rot of Pistachio	2 of 3	
PA-2023-39	\$66,070.00	\$66,070.00	Andreas Westphal	Is there a risk of plant-parasitic nematodes in pistachio on current and future rootstocks?	3 of 3	
TOTAL	\$2,494,765.43	\$2,459,984.43				

Education & Outreach	\$50,000.00
Food Safety	\$151,526.00
Standard Research	\$2,258,458.43
Total funded	\$2,459,984.43