

California Pistachio Research Board

2017 Research Projects

Proposal Title	Principal Investigator	Amount Awarded
Entomology Research		
Understanding Aggregation Behavior of the Leaf-footed bug, <i>Leptoglossus zonatus</i>	Andrea Joyce	\$45,000
Population dynamics and epidemiology of navel orangeworm damage to pistachios	Joel Siegel	\$200,000
Horticulture Research		
Automated solid state canopy delivery (SSCD) system to deliver mist-cooling to increase winter chill for dormancy and bud break	Yiannis Ampatzidis	\$42,954
Effect of Hedging and Topping on Pistachio Alternate Bearing	Robert H. Beede	\$8,500
Evaluation of Mechanical and Chemical Strategies to Enhance Winter Chill Accumulation in Pistachios	Gurreet Brar	\$6,500
Winter applied spray amendment impact on winter chill accumulation, carbohydrate levels, flowering, leaf out and yield	Mae Cumber	\$16,940
Cellular, subcellular and molecular characterization of salinity tolerance in pistachio with novel tools	Georgia Drakakaki	\$76,866
Dust Influences Pollen Density and Pollination Quality in Pistachio	Louise Ferguson	\$19,158
Pistachio Inflorescence Bud Abscission Dynamics and Mitigation with Seaweed Extracts	Louise Ferguson	\$13,543
Understanding Winter Chill Accumulation & Continuing Development of A Temperature Based Phenology Model For Pistachios	Louise Ferguson	\$98,992
Clonal UCB-1 Pistachio Rootstock Micropropagation: Is pistachio Bushy top syndrome a variant that occurred in tissue culture?	Deborah Golino	\$23,729
Development of New, Reliable, Vigorous, Clonal Rootstocks	Deborah Golino	\$59,061
Identification of Superior UCB-1 Rootstocks using DNA Markers: Phase 2	Deborah Golino	\$105,695
Evaluation of U.C. pistachio breeding scion and rootstock selections	Craig Kallsen	\$7,000
Reduced and non-pruning in newly established pistachio orchards	Bruce Lampinen	\$10,000
Determination of soil-plant-water dynamics for mature pistachio orchards grown under saline conditions	Daniele Zaccaria	\$48,500
Development of Physiology Based Methods for Sustainable management of Pistachios--Focus on Physiology of Chilling Requirement	Maciej Zwieniecki	\$81,996
Physiology of Sodium Management in Pistachio	Maciej Zwieniecki	\$27,581
Pathology Research		
Real-time, in-situ detection of volatile profiles for the prevention of fungal contamination in pistachios	Tiziana C. Bond	\$23,000
Soil survival potential of <i>Rhodococcus</i> spp. associated with pistachio bushy top syndrome	Elizabeth Fichtner	\$20,480
(Re)examining the role of <i>Rhodococcus</i> in Pistachio Bushy Top Syndrome	Johan Leveau	\$74,557
Biology, Epidemiology, and Management of Anthracnose Blight of Pistachio in California and Phoma Blight of Pistachio in Arizona	Themis J. Michailides	\$61,834
Factors Affecting the Efficacy of AF36, Improvement of the Biocontrol Agent, and Monitoring Commercial Applications	Themis J. Michailides	\$75,096
Managing resistance to fungicides of <i>Alternaria</i> , genotype dynamics of the pathogen, and control of <i>Alternaria</i> late blight disease in pistachios	Themis J. Michailides	\$55,914
Early Detection of Pistachio <i>Botryosphaeria</i> Panicle Blight Disease Using High-throughput Plant Phenotyping	Alireza Pourreza	\$49,688
Investigating and diagnosing new and emerging diseases of pistachio in California	Florent Trouillas	\$59,253
<i>Rhodococcus</i> genome sequence analyses and symptom development in PG1 and PG2 rootstocks	Florent Trouillas	\$39,395
Characterizing pistachio rootstocks for host status to plant--parasitic nematodes	Andreas Westphal	\$49,442
Education Research		
Improving the Online Pistachio Education Program to Train Pistachio Growers and Handlers	Carlos H. Crisosto	\$19,140
PSA Training Curriculum for Pistachios	Linda Harris	\$57,710