

# California Pistachio Research Board

## 2015 Research Projects

Proposal Title	Principal Investigator	Amount Awarded
<b>Entomology Research</b>		
Finding the needle in a haystack: tracking down the elusive attractant of navel orangeworm in pistachio orchards	John Beck	\$15,000
Detoxification of insecticides individually and in combinations in navel orangeworm populations resistant to pyrethroid insecticides	May Berenbaum	\$45,000
Standardized Assays for Comparing PPO and other Semiochemicals for NOW	Charles S. Burks	\$33,000
Monitoring the Adult Navel Orangeworm Moths with Pheromone and Host-Plant Volatiles	Ring Cardé	\$39,525
Classical Biological Control of the Brown Marmorated Stink Bug and Surveillance for this Pest in the Central Valley	Mark S. Hoddle	\$30,322
Large Bug Management on Pistachio and their Dispersion in Neighboring Plantings of Pistachio and Almond	Kris Tollerup	\$34,740
The effect of adjuvant choice on in season control of navel orangeworm in pistachios	Joel Siegel	\$97,000
Population dynamics and epidemiology of navel orangeworm damage to pistachios	Joel Siegel	\$102,000
Molecular identification of Leaf-footed Plant Bug and Stinkbug species and strains in Pistachio Orchards	Andrea Joyce	\$15,000
<b>Horticulture Research</b>		
Effect of Hedging and Topping on Pistachio Alternate Bearing	Robert H. Beede	\$8,000
Understanding Winter Chill Accumulation & Continuing Development of A Temperature Based Phenology Model For Pistachios	Gurreet Brar	\$65,382
Routine Pistachio Variety Identification using DNA Markers	Gerald S. Dangi	\$44,687
Cellular, subcellular and molecular characterization of salinity tolerance in pistachio with novel tools	Georgia Drakakaki	\$58,837
Physiology of Sodium Management in Pistachio	Maciej Zwieniecki	\$57,415
Evaluation of pistachio breeding selections	Craig Kallsen	\$12,500
Reducing Winter Juvenile Pistachio Freeze Damage	Craig Kallsen	\$2,850
Identification of Superior UCB-1 Rootstocks using DNA Markers	Deborah Golino	\$105,916
Development of Physiology Based Methods for Sustainable management of Pistachios under Changing Central Valley Climatic Conditions	Maciej Zwieniecki	\$64,771
Effect of Pre-plant Tillage on Pistachio Development Under Drip Irrigation	Blake Sanden	\$2,940
Preliminary study on water use (ETc) and crop coefficients (Kc) of mature pistachio orchards grown in the San Joaquin Valley	Daniele Zaccaria	\$144,262
<b>Pathology Research</b>		
Performance of 'UCB-1' pistachio rootstock selections and pre-plant soil fumigation in a sandy location with high counts of plant parasitic nematodes	David Doll	\$8,600
New Oomycete pathogens in California pistachio: predisposition in saline soils and disease management	Elizabeth Fichtner	\$37,000
Deep sequencing-based discovery of viral and viral-like pathogens in Pistachio	Deborah Golino	\$60,411
Monitoring Commercial Applications and Improving the Efficacy of AF36	Themis J. Michailides	\$82,209
Dynamics of Alternaria species resistant to Succinate Dehydrogenase Inhibitor (SDHI) fungicides, boscalid, fluopyram, fluxapyroxad, and penthiopyrad, and resistance management programs in pistachio orchards of California	Themis J. Michailides	\$55,462
Biology of Botryosphaeria Panicle and Shoot Blight and Management of Bot and Botrytis blights	Themis J. Michailides	\$58,291
Rhodococcus fascians and the Pistachio Industry	Jennifer Randall	\$99,997
Investigating and diagnosing new and emerging diseases of pistachio in California	Florent Trouillas	\$38,000
Mycoviruses infecting Botryosphaeriaceae fungi associated with Pistachio in California: potential use as biological control agents	Themis J. Michailides	\$24,941
Management of Alternaria Late Blight of Pistachio by Using the Disease Severity Model and the Botryosphaeria Leaf Wetness Model	Themis J. Michailides	\$55,419