

California Department of Food and Agriculture

Marketing Branch

Approval of Meeting Minutes and Actions

| | |
|-------------------|-------------------------------------|
| Program: | California Pistachio Research Board |
| Meeting Date: | February 12, 2020 |
| Meeting Location: | Fresno, CA |

Notable Actions:

| | | |
|-----------|-----|--|
| 2020 0212 | #02 | Motion to strike out the language “but no such member shall receive a salary or per diem in the performance of such duties” from the “ <i>Section H – Expenses of Members</i> ” – in the CPRB Marketing Order. [Action Approved by Department Order on May 21, 2020] |
| 2020 0212 | #03 | Motion to adopt the contract policy section and add it to the Policy Manual. [Action Not Approved by the Department] |
| 2020 0212 | #04 | Motion to allocate \$1,946,070 to fund the approved research proposals. |
| | | |
| | | |

APPROVED

SECRETARY OF FOOD AND AGRICULTURE

BY: 
 Joe Monson, Branch Chief
 Marketing Branch

DATE: MAY 21, 2020



**MEETING MINUTES
CALIFORNIA PISTACHIO RESEARCH BOARD
Board of Directors Meeting**

**February 12, 2020 – 9:00 a.m.
Western Agricultural Processors Association Conference Room
1785 N. Fine Avenue, Fresno, California 93727**

Roll Call

Chairman Tom Coleman called the meeting to order at 8:30 a.m. A complete board roster is shown below with an * indicating those in attendance. A quorum was established.

| Members | Alternates | Advisory Committee |
|----------------------------------|---------------------------|--------------------|
| * Tom Coleman, Chairman | 1 st Alternate | Robert Beede |
| * Johnny Starling, Vice-Chairman | John E. Konda | Carl Fanucchi |
| ** Jeremy Blackwell | 2 nd Alternate | * Todd Fukuda |
| * Rob Goff | Adam Orandi | Mike Harvey |
| Eric Miller | 3 rd Alternate | ** Brad Higbee |
| * Doug Mueller | Erik Wilkins | * Brian O'Neill |
| Mike Smith | 4 th Alternate | Anthony Rabo |
| * Rod Stiefvater | * Michael Naito | Zack Raven |
| **Todd Tracy | | |
| * Christine Milgrom | | |

*indicates those members, alternates and advisors in attendance;
**indicates attendance via teleconference

Others Present: Craig Kallsen (UCCE-Kern), Giulia Marino (UC Davis), Mikre Wilczek (CDFA), Kacie Fritz** (CDFA), Kirk Squire, Andrew Howe, Brian O'Neill, Dnaiel Palla, Gerrid Climer, Aaron Salsedo, Kable Munger**, Bob Klein, and Juanita Owens.

Approval of the November 5, 2019 Meeting Minutes

Board Motion 2020-02-12 #1

It was moved by Johnny Starling and seconded by Christine Milgrom to approve the November 5, 2019 minutes as written. The motion passed unanimously with no abstentions.

Public Comments on Agenda Items

There were no comments on agenda items from the public.

CDFFA Report

CDFFA had nothing to report.

Manager's Report

Bob Klein included several categories in his report to the Board:

1. Bob Klein handed out copies of the Agricultural Statistics that show the price per pound for pistachios from 2009-2018. The Board agreed with Bob that the 1.68 and 1.69 prices per pound were not accurate.

2. Bob Klein reviewed the proposal for Commodity Board Support for UC Farm Advisors (FAs) sent to the Board for consideration. The Commodity Board is recommending that Staff Research Assistants (SRAs) be hired and funded by commodities to assist the FAs. Current FA responsibilities have been increasing due to staff shrinkage and lack of funds for hiring more staff. An SRA position funded by commodities, will cost \$100,000 a year with a 3-year contract. It was the consensus of the Board to include two SRA positions in the 2020-2021 budget, as recommended by Bob Klein.

Sterile Insect Technology

Bob Klein reported that the SIT project received a six-million-dollar federal appropriation. Technically, this money is for an area wide NOW control program of which SIT is a part. Supplies for the SIT project will continue to be purchased by the CPRB, but the SIT budget will decrease. Future plans include moving the test site to a location that has both almonds and pistachios.

Marketing Order Amendment Consideration

Bob Klein summarized what led up to a minor Marketing Order amendment under consideration today. Last year the Board decided to have a policy that allowed requests for resignation when members and/or alternate members had unexcused absences from meetings. In order to state this policy, the Board needed to have a policy manual. A proposed policy manual was approved by the Board at the November 5, 2019 meeting. The CDFA reviewed the manual which included the Board's policy of a \$100 per diem for each meeting attended by the public member. The CDFA informed us that our MO did not allow any form of compensation for any board member. The intent of the Board has always been to give public members a per diem. A minor amendment to the MO which removes the language about not giving board members compensation was the solution approved by the Board at today's meeting. The Policy Manual will be able to include a policy of no compensation for Board members/alternates, except for the Public Member. The Board was informed that this minor amendment to the MO will cost about \$1000 to cover the cost of mailing the change to inform the industry and CDFA fees. Bob Klein and Kacie Fritz will work on the letter that will be mailed to the industry.

This action requires separate approval by the Department

Board Motion 2020-02-12 #2

It was moved by Rob Goff and seconded by Rod Stiefvater to strike "but no such member shall receive a salary or per diem in the performance of such duties" from 'Section H.- Expenses of Members' in the CPRB Marketing Order. The motion passed unanimously with no abstentions.

CPRB Policy Manual Review and Approval

Bob Klein informed the Board that as a result of the recent auditor's report, the CDFA found that there was no written policy or procedures in place for contracts. A draft of the Policy Manual with a contract policy was presented to the Board for review and approval. The Board accepted the draft as presented.

This action requires separate approval by the Department

Board Motion 2020-02-12 #3

It was moved by Rod Stiefvater and seconded by Johnny Starling to approve the contract policy section added to the Policy Manual. The motion passed unanimously with no abstentions.

Review and Funding Decisions on Proposals Presented January 28-29

It was noted that the 2019-2020 approved budget (not including Sterile Insect Technology) allocates \$2,350,000 for research (\$1,600,000 -- standard research, \$350,000 -- research contingency, \$150,000 -- Education and Outreach, \$250,000 -- Food Safety). The Board received forty-four proposals requesting funds totaling more than \$2.6 million. Researchers presented their proposals to the Board on January 28th and 29th. Today the Board reviewed these proposals deciding which projects to fund. The Board granted funding for 30 of the proposals. A total of \$1,946,070 was allocated to fund research (\$50,000 – Education and Outreach; \$128,831 – Food Safety; \$1,767,239 – Standard Research). For detailed funding see Exhibit A – 2020 Proposal Chart.

Board Motion 2020-02-12 #4

It was moved by Rob Goff and seconded by Christine Milgrom that the board allocate \$1,946,070 to fund the approved research proposals (Exhibit A). The motion passed unanimously with no abstentions.

Other Business

There was no other business.

Public Comment

There were no public comments.

Topics for Future Consideration

No additional topics were mentioned.

Scheduling of Future Meetings

A meeting will be needed in early June to set the 2020-2021 budget.

There being no other business, the meeting was adjourned at 11:40 a.m.

Certification

I, Bob Klein, Manager of the California Pistachio Research Board, do hereby certify that, to the best of my knowledge, the foregoing is a true and correct account of the meeting of the California Pistachio Research Board conducted on February 12, 2020.

Date: _____

Bob Klein, Manager - California Pistachio Research Board

Exhibit A - 2020 Research Proposal Chart - Award Amounts

| Project Num. | Amount Requested | Amount Awarded | Principal Investigator | Proposal Title | Project Year | Comments |
|---------------------------------|------------------|----------------|------------------------------------|---|--------------|--|
| Education | | | | | | |
| ED-2020-1 | \$15,000 | \$15,000 | Julia Stover | California Pistachio Research Board Event Facilitation | ongoing | |
| ED-2020-2 | \$35,000 | \$35,000 | Julia Stover | California Pistachio Workgroup Website Development | 1 of 1 | |
| ED-2020-3 | \$30,000 | | Daniel Y. Poon Syverson | Translating the Chinese academic pistachio research literature | | Total Amount Requested: Variable (\$100 -> \$30,000); see proposal |
| Entomology | | | | | | |
| ENT-2020-4 | \$29,783 | | Raman Bansal/ Walse | Optimizing Phosphine for the Future | 1 of 1 | recommend to Administrative Committee for Pistachois |
| ENT-2020-5 | \$43,562 | \$43,562 | Raman Bansal | Improving Effectiveness and Sustainability of Gill's Mealybug Management in Pistachio | 1 of 1 | |
| ENT-2020-6 | \$38,372 | \$38,372 | Tiziana Bond | Orchard in a box. Raman Spectroscopy to Detect and Measure NOW Pheromones | 1 of 1 | |
| ENT-2020-7 | \$40,000 | \$40,000 | Luisa W. Cheng | Use of Pistachio Mummy Volatiles as Lures for Navel Orangeworm | 1 of 1 | |
| ENT-2020-8 | \$51,092 | \$51,092 | Kent Daane | Attraction and suitability of trap crops for large bug pests in pistachio | 3 of 4 | |
| ENT-2020-9 | \$41,771 | \$41,771 | Jocelyn G. Millar/Wilson/ Daane | Pheromonal or related attractants for leaf-footed bugs (<i>Leptoglossus</i> spp.) infesting California nut crops | 5 of 5 | Asking Almond Board for \$41,771 |
| ENT-2020-10 | \$48,114 | \$48,114 | Jocelyn G. Millar | Identification, synthesis, and development of the sex pheromone of the mealybug <i>Ferrisia gilli</i> | 1 of 2 | |
| ENT-2020-11 | \$70,254 | | Christian Nansen | Comprehensive ecological modeling of pesticide spray applications in pistachio orchards | 3 of 3 | |
| ENT-2020-12 | \$80,000 | \$80,000 | Joel P. Siegel | Improve insecticide application, efficacy and timing for control of navel orangeworm in pistachio | 2 of 3 | |
| ENT-2020-13 | \$35,115 | | Houston Wilson/ Wenger | Gut-content Analysis to Determine Alternate Host Plants of Leaf-footed Bug | 1 of 2 | Asking Almond Board for \$35,115 |
| ENT-2020-14 | \$54,341 | | Houston Wilson/ Bansal | Determining the Origin and Movement of Navel Orangeworm in Orchards | 1 of 3 | Asking Walnut and Almond boards for \$108,682 |
| ENT-2020-15 | \$61,800 | \$61,800 | Houston Wilson/ Burks | Improving and verifying quality of mass-reared navel orangeworm for sterile insect technique | 1 of 1 | Asking Almond Board for \$61,800 |
| ENT-2020-16 | \$43,610 | \$43,610 | Houston Wilson/ Burks | Influence of Pistachio Hull Degradation and Shell Split on NOW Egg Deposition and Infest | 1 of 2 | |
| Food Safety | | | | | | |
| FS-2020-40 | \$65,826 | \$65,826 | Themis J. Michailides | Factors Affecting the Efficacy of AF36, Improvement of the biocontrol Agent, and Establishing an Area-wide Long-term Mycotoxin Management Program | 2 of 3 | |
| FS-2020-41 | \$63,005 | \$63,005 | Themis J. Michailides | A survey of fungi producing Ochratoxin A in California pistachios and management of contamination | 2 of 4 | 4 year (2 cycles on and off) |
| Horticulture: Agronomics | | | | | | |
| HA-2020-17 | \$69,124 | \$69,124 | Phoebe Gordon | Evaluation of Salinity, Boron, and Soil Hypoxia on Pistachio Tree Growth | 1 of 3-4 | |

| | | | | | | |
|---------------------------------|-----------|-----------|----------------------|---|---------|--|
| HA-2020-18 | \$98,838 | \$98,838 | Bruce Lampinen | Evaluating new training systems for pistachio | 3 of 7 | |
| HA-2020-19 | \$13,399 | \$13,399 | Giulia Marino | New CE Specialist Seed Grant | 1 of 1 | |
| HA-2020-20 | \$94,460 | | Doug Parker | Upscaling and outreaching updated information on pistachio evapotranspiration (ET) and crop coefficients (Kc) for use in irrigation planning and scheduling decisions in the water-limited context of California | 1 of 1 | |
| HA-2020-21 | \$59,502 | | Alireza Pourreza | Development of drone imagery interpretation model for temporal evaluation of pistachio canopy profile and forecasting yield | 1 of 2 | |
| HA-2020-22 | \$37,706 | | Blake Sanden | Pistachio Irrigation Training Module & Monitoring Demo Sites | 2 of 2 | |
| HA-2020-23 | \$96,950 | \$96,950 | Daniele Zaccaria | Investigating the effects of winter cover crops on evapotranspiration, water productivity and soil-water functions of mature micro-irrigated pistachio orchards in the water-limited context of the San Joaquin Valley. | 1 of 1 | |
| HA-2020-42 | \$74,000 | \$74,000 | Gary Banelos | Long Term Saline Irrigation Strategies for Pistachios on PGI Rootstock | 1 of 2 | |
| HA-2020-43 | \$78,000 | | Kosana Suvocarev | Seasonal Dynamic of Water Productivity and Carbon Sequestration Potential in a Well-Watered Pistachio Orchard | 1 of 3 | |
| HA-2020-44 | \$18,600 | | Massod Khezri | Artificial pollination of pistachio trees | 1 of 3 | |
| Horticulture: Genetics | | | | | | |
| HG-2020-24 | \$106,408 | \$106,408 | Pat J. Brown | Pistachio Improvement Program | 3 of 10 | Asking walnuts for \$433,261 |
| HG-2020-25 | \$25,986 | \$25,986 | Pat J. Brown | Phenotypic and genomic diversity of UCB-1 sub-clones | 1 of 2 | Asking walnuts for \$433,261 |
| HG-2020-26 | \$130,787 | \$130,787 | Pat J. Brown | Integrated Conventional and Genomic Approaches to Pistachio Rootstock Development | 3 of 3 | Requesting Separate awards: Davis team - \$43,688; Trouillas - \$45,168; Michailides - \$41,931. Westphal Budget in separate proposal. |
| HG-2020-27 | \$128,186 | \$128,186 | Richard Michelmore | Identification of Superior UCB-1 Rootstocks using DNA Markers: Phase 3, Year 2 | 2 of 2 | |
| Horticulture: Physiology | | | | | | |
| HP-2020-28 | \$100,000 | \$100,000 | Barbara Blanco-Ulate | Physiological and biochemical factors in pistachio hull maturity and shell split as a function of temperature and tree physiology | 2 of 3 | |
| HP-2020-29 | \$82,788 | \$82,788 | Gurreet Brar | Cracking the Black-box of dormancy in Pistachios: Tracking biochemical changes in inflorescence buds from dormancy to bud break | 2 of 3 | |
| HP-2020-30 | \$13,709 | | Gurreet Brar | AVG and cytokinin application to mitigate bud abscission in pistachios | 1 of 2 | |
| HP-2020-31 | \$61,975 | \$61,975 | Georgia Drakakaki | Morphological and cellular characterization of Pistachio fruit development, shell and hull splitting and kernel quality improvement | 1 of 3 | |
| HP-2020-32 | \$69,853 | \$69,853 | Georgia Drakakaki | Trait and marker evaluation for breeding salinity tolerance and climate adaptation in California pistachio rootstocks | 2 of 3 | |

| | | | | | | |
|----------------------|--------------------|--------------------|-----------------------|---|--------|---|
| HP-2020-33 | \$75,000 | \$75,000 | Maciej Zwiernicki | Development of Tree Carbohydrate Budget Based Methods for Sustainable Management of Pistachio Orchards under Variable Central Valley Climatic Conditions | 3 of 4 | |
| Miscellaneous | | | | | | |
| MISC-2020-34 | \$71,861 | | Dilruba Yeasmin | A Ground Penetrating Radar (GPR) based Assessment of Underground-Mediated Alkaliweed (<i>Cressa truxillensis</i>) Invasion in California's Pistachio Orchards | 1 of 2 | includes budget of \$78,222 for second year |
| Pathology | | | | | | |
| PA-2020-35 | \$39,700 | | Jong H. Kim | Rapid elimination of weeds and fungal pathogens from California pistachio orchards | 1 of 2 | |
| PA-2020-36 | \$42,694 | \$42,694 | Themis J. Michailides | Strategies to lessen conducive conditions for <i>Alternaria</i> late blight and resistance management in California pistachio orchards | 1 of 1 | |
| PA-2020-37 | \$68,820 | \$68,820 | Themis J. Michailides | Epidemiology and management of <i>Colletotrichum fioriniae</i> , <i>Phoma fungicola</i> and <i>Botryosphaeriaceae</i> family members causing blight diseases on California and Arizona pistachio (4th year) | 1 of 1 | \$64,820 for Michailides and \$4,000 for Sherman in Arizona |
| PA-2020-38 | \$74,110 | \$74,110 | Florent Trouillas | Evaluating pistachio rootstock tolerance to soil borne diseases | 2 of 2 | |
| PA-2020-39 | \$52,174 | | Andreas Westphal | Characterizing pistachio rootstocks for host status to plant-parasitic nematodes | 1 of 1 | |
| TOTAL | \$2,631,275 | \$1,946,070 | | | | |

| 2019-2020 CPRB Research Budget | | Approved Research |
|---------------------------------------|--------------------|--------------------------|
| Standard | \$1,600,000 | \$1,767,239 |
| Non-cyclic | \$350,000 | |
| Ed./Outreach | \$150,000 | \$50,000 |
| Food Safety | \$250,000 | \$128,831 |
| Total | \$2,350,000 | \$1,946,070 |