

# Pest Management Research Grant Program 2015-2016 Solicitation

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Pest Management and Licensing Branch  
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# Outline

- **Critical dates**
- **Research grant priorities and funding**
- **The proposals**
- **Scores and review logistics**



# Critical Dates

- 12 Concepts received: October 2, 2014
- 7 Proposals received: December 17, 2014
- Grants awarded: March 23, 2015
- Project start date: July 1, 2015
- Report to PMAC: Winter 2017/18

Review Period



# Grant Priorities: IPM solutions: Field fumigants and other high-risk pesticides

- **Decision-making for pest management**
- **Prevention and management of pests currently controlled by field fumigants**
- **Application technologies improvement**
- **Cost effectiveness of reduced risk practices**
- **Modeling or meta-analyses**



# Funding

- **\$1.1 million total**
  - **\$600 thousand: fumigant only**
  - **\$500 thousand: fumigant & other high risk pesticides**



# Review of Proposals



# Development of an IPM program for early season pests of bell peppers

- IPM program integrates pepper weevil sampling, reduced-risk insecticides, and natural enemy optimization.

Sean Prager  
UC Riverside  
Entomology  
\$197,705

# Development of *Phasmarhabditis* species (Nematoda) as biological control agents of snail and slug pests in CA

- Determine range, habitat, and bacterial associates of *Phasmarhabditis* nematodes and its biological control efficacy against gastropod pests

Timothy Paine  
UC Riverside  
Entomology  
\$461,421



# Development of integrated management strategies for control of *Bagrada hilaris* in cole crops through non-chemical controls.

- IPM program to control *Bagrada hilaris* in cole crops – life cycle model, reservoir weed removal, biocontrol, trap crops

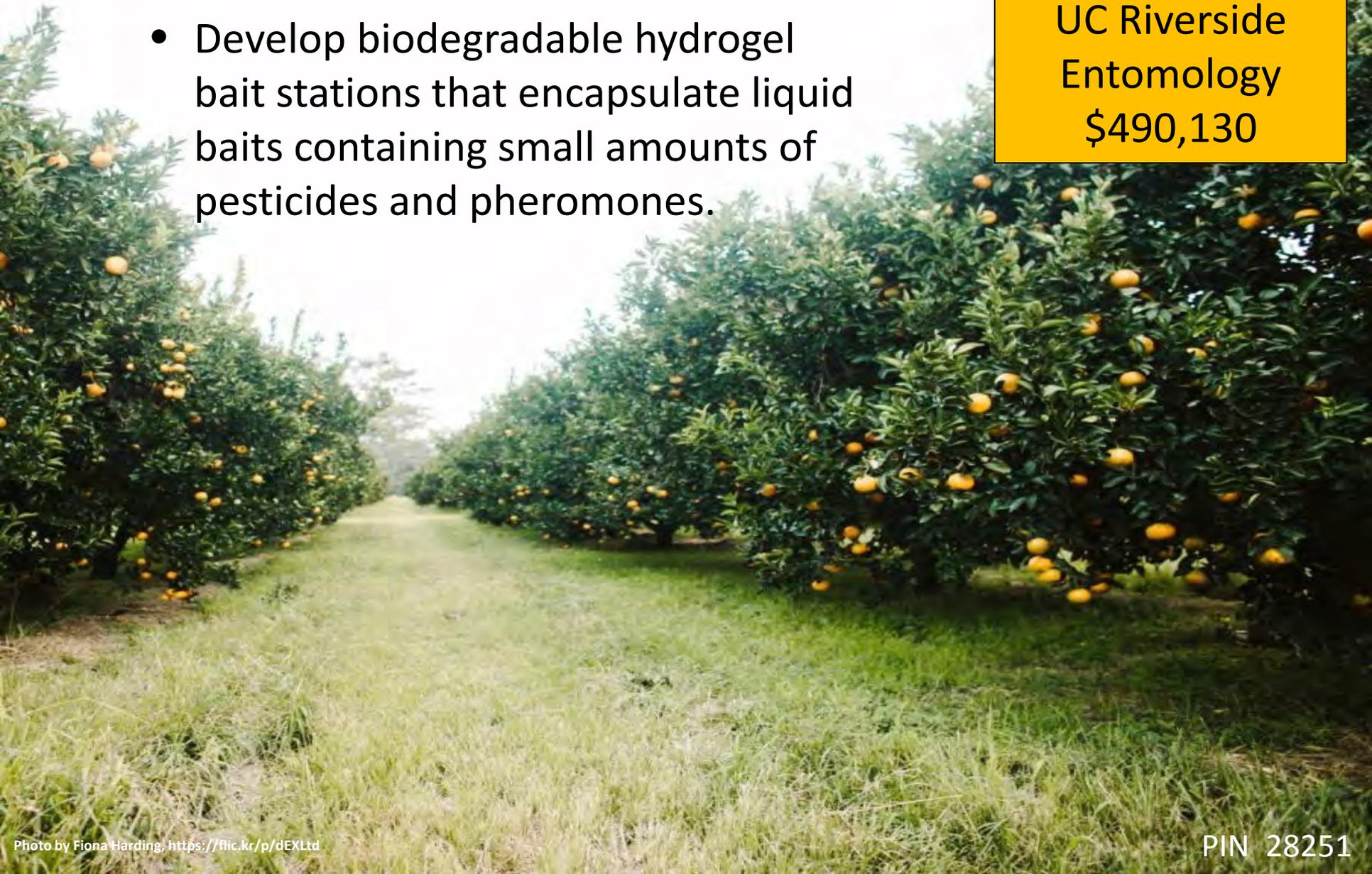
Randall Long  
UC Santa Barbara  
\$350,000



# Enhancing biological control of citrus pests with improved ant control technologies

- Develop biodegradable hydrogel bait stations that encapsulate liquid baits containing small amounts of pesticides and pheromones.

Dong Hwan Choe  
UC Riverside  
Entomology  
\$490,130



# Integrating Plant Horticulture and Soilborne Disease Control by Methyl Bromide Alternatives for Strawberries

- Integrated production system evaluating chloropicrin, ASD, Dominus (a formulation of "AITC") and steam with modifications in cold conditioning, color of plastic, and nutrition.

Mark Bolda  
UCCE Santa Cruz  
\$167,621



# Evaluation of Alternatives to Soil Fumigants and Diallyl Disulfide for the Management of White Rot in Onion and Garlic

- Identify effective germination stimulant that can be used with in-furrow fungicides for integrated pest management of white rot.

Rob Wilson  
UC Davis  
\$107,577



# Integrated approaches to replace methyl bromide in strawberry production: strategies for soilborne disease management

- Evaluate combinations of biopesticide (mustard oil), broccoli residue, and RootGuard (soil amendment) on yield, disease, microbial community, and economics.

Krishna  
Subbarao  
UC Davis  
\$400,000



# Scores

1. Overview
2. Economic Considerations
3. Scope of Work
4. PI and Team
5. Budget

FAAST: Web-based  
Financial Assistance  
Application Submittal Tool  
through State Water  
Resource Control Board

## FAAST Financial Assistance Application Submittal Tool

Welcome Kimberly Steinmann of Department of Pesticide Regulation. If not your Account, please log out.

### Questions Preview

This screen displays a "Preview of Application/Survey Questions" entered by the FAAST or RFP administrator. This Preview displays  
To filter questions by funding program, please select a funding program from drop-down. The page will refresh and questions specific to

Filter by Funding Program:

### Questions Preview

Link to Solicitation: [Pest Management Research Grant Program Solicitation](#) NOTE: Comments or notes may be added

#### 1. OVERVIEW

The reviewer's overall assessment of the project. Consider the following:

- 1.1. Is the project needed and will it provide significant benefits to California stakeholders? Are the risks from pesticide use  
Maximum of 20 points, with 1 = poor and 20 = excellent.

Answer:

Please do not use comma ( , ) and enter a number between 1 and 20

- 1.2. Are the overall goals and objectives for the project clearly stated, important, and reasonably achievable within the grant  
Maximum of 10 points, with 1 = poor and 10 = excellent.

Answer:

Please do not use comma ( , ) and enter a number between 1 and 10

#### 2. ECONOMIC CONSIDERATIONS

	R1	R2
Proposal 1	75	75
Proposal 2	70	77
Proposal 3	55	78
Proposal 4	40	80
Proposal 5	57	99
Proposal 6	65	90
Proposal 7	45	89

	R1	R2
Proposal 1	1	7
Proposal 2	5	6
Proposal 3	4	5
Proposal 4	7	4
Proposal 5	4	1
Proposal 6	3	2
Proposal 7	6	3

# Overall Scores

1 = First choice  
7 = Last choice

## RANKED SCORES

Project	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	R16	R17	R18	Average	High	Low	\$
<b>Bolda</b> Horticulture + Fum Alts + Strawberry	2.0	1.5	5.0	1.0	1.0	1.0	4.0	4.0	3.0	2.0	3.0	3.5	1.0	4.0	4.5	1.0	1.0	4.0	2.58	1	5	\$ 167,621
<b>Wilson</b> Fum Alts + Allium	5.0	6.5	1.0	4.0	2.5	3.0	1.5	5.0	4.0	3.5	1.0	1.0	R	3.0	3.0	5.5	5.0	5.0	3.50	1	7	\$107,577
<b>Subbarao</b> Fum Alts + Strawberry	1.0	1.5	4.0	5.0	2.5	5.0	1.5	1.0	1.5	5.0	4.0	7.0	6.0	5.5	6.0	2.0	2.0	3.0	3.53	1	7	\$400,000
<b>Paine</b> Biocontrol of Snails and Slugs	3.0	3.5	3.0	3.0	4.5	2.0	6.0	2.5	5.0	1.0	6.0	5.0	4.5	1.5	7.0	7.0	3.0	1.5	3.83	1	7	\$461,421
<b>Prager</b> IPM + Bell Peppers	7.0	5.0	2.0	2.0	7.0	6.0	3.0	6.0	1.5	3.5	7.0	3.5	2.0	7.0	1.5	4.0	7.0	6.5	4.53	2	7	\$197,705
<b>Choe</b> Ant Baits + Biocontrol + Citrus	6.0	6.5	6.0	6.0	6.0	4.0	5.0	2.5	6.0	6.0	2.0	2.0	4.5	1.5	4.5	3.0	6.0	6.5	4.67	2	7	\$490,130
<b>Long</b> Bagrada Bug + Cole Crops	4.0	3.5	7.0	7.0	4.5	7.0	7.0	7.0	7.0	7.0	5.0	6.0	3.0	5.5	1.5	5.5	4.0	1.5	5.17	2	7	\$350,000

R = recused

## NAME: Individual Scores

(Column R6 in Aggregated Rank Table)

### Questions

Projects	1.1	1.2	2.1	3.1	3.2	3.3	3.4	4.1	5.1	5.2	5.3	Total
Prager IPM + Bell Peppers	5.0	6.0	3.0	8.0	7.0	4.0	5.0	10.0	8.0	5.0	5.0	66.0
Subbarao Fumigant Alternatives + Strawberry	15.0	8.0	4.0	8.0	7.0	4.0	5.0	10.0	8.0	4.0	5.0	78.0
Choe Ant Baits + Biocontrol + Citrus	15.0	8.0	4.0	8.0	8.0	5.0	5.0	10.0	10.0	5.0	5.0	83.0
Bolda	20.0	10.0	5.0	8.0	13.0	4.0	5.0	10.0	10.0	5.0	5.0	95.0

### **Today's Goals:**

- Identify the proposals PMAC feels are fundable.
- Rank those proposals in order of preference.
- Record strengths and weaknesses for all proposals.
- Grant Program feedback :

<https://docs.google.com/forms/d/1iWakoGWhU12alfijqmdznsQtulEAhikhR2hVO2Dggb4/viewform>

### **Recusal:**

- PMAC members are not eligible to receive funds through a project unless they recuse themselves from the grant review process for that project.
- Organizations with which the committee members are associated are eligible for funding.

### **Folder Contents:**

- Agenda
- Ground Rules
- PMAC Score totals
- Individual scores and comments
- Presentation
- Proposal Abstracts

**Questions?**

**Facilitators:**

**Ana Cortez and Grace Person**

Center for Collaborative Policy California State  
University, Sacramento

**Thank You**