



The IR-4 Project Workshops

2016 Update

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The IR-4 Project

Overview

- People
- Success
- GMU Workshop update
- Opportunities & Challenges
- Threats
- Path Forward
- CLC Activity

People Update



Robin Bellinder (1945-2015)



Robin Bellinder Graduate Student Fund.

The fund will be established *“to provide financial support for graduate students working on vegetables crops, with a preference given to projects with a weed science emphasis.*

Edith Lurvey



Rich Bonanno





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Successes

- Record number of Food Program approvals (1175)
 - Registrations that are critically important to specialty crops under challenging regulatory conditions
 - New Varroa miticide
- Expansion of EPA crop groupings
- Biopesticide Program refocused

What's Good-Internationally

- IR-4's Global Residue Studies
 - Tomato - key part of EPA global “exchangeability” proposal
 - Blueberry - Registered
- Global Partners
 - Capacity Building efforts
 - EU Coordination Facility
- Dan Kunkel IUPAC Award

Cropping System	Pest/Crop rank 1 - A (highest votes)	Pest/Crop rank 2 - B (votes)	Pest rank 3 – B (votes)
Protected (green house)	<p><u>Aphids /lettuce</u> Possible Solutions: Flonicamid, Pymetrozine, Cyantraniliprole, Sulfoxaflor, NA 11630</p>	<p><u>Thrips /fruiting vegs.</u> Possible solutions: Cyantraniliprole, Novaluran, Cyclaniliprole</p>	<p><u>Whiteflies/fruiting veg.</u> Possible solutions: Flupyradifurone, Cyantraniliprole, Novaluran, NA 11630</p>
Temperate	<p><u>Downy mildew/leafy vegetables</u> Possible solutions: Ametoctradin + Dimethomorph, Acibenzolar, Zoxamide, Fluopicolide + Propamocarb Cyazofamid, Oxathiapiprolin Famoxadone + Cymoxanil</p>	<p><u>Aphids/legumes crops</u> Possible solutions: Flonicamid, Pymetrozine Cyantraniliprole, Sulfoxaflor, Dinotefuran Spirotetramat Flupyradifurone, NA 11630</p>	<p><u>Weeds/leafy vegetables</u> Possible solutions: s-metolachlor</p>
Tropical Fruit	<p><u>Fruit flies</u> Possible solutions: Spinosad, Cyantraniliprole Kaolin, NA 11630</p>	<p><u>Anthraco</u> Possible solutions: Trifloxystrobin + Fluopyram Pyraclostrobin + Metiram Mandistrobilin, Isofenamid Azoxystrobin + Difenconazol Cyprodinil + Fludioxonil Penthiopyrad</p>	<p><u>Psyllids on Citrus crops</u> Possible solutions: Diflubenzuron, Flonicamid Sulfoxaflor, Buprofezin, NA 11630</p>



GMUS-3

**Third Global Minor Use Summit
Fairmont Queen Elizabeth Hotel
Montreal, Quebec, Canada**

October 1-4, 2017

In the middle of a
difficulty lies
opportunity.

-Albert Einstein

Challenges/Opportunities

Product Performance Data (PPD) Development

- IR-4 being asked to develop more PPD, why
 - Higher “bar”/California registration
 - Liability
 - Lack of research scientists
- More \$ for PPD (from IR-4 & Industry)
- PPD Team
 - Appropriate focus
 - Process improvements
 - Integration of biopesticides and conventional for R² approach

Challenges/Opportunities

Global Harmonization

- Domestic growers want access to international markets.
- Lack of MRL harmonization is a trade barrier
- Funds from FAS to “enhance” domestic data development to support harmonized MRLs
 - More field trials/more decline sample/additional metabolites
- Mentor international “IR-4s”. Cooperate in joint data development

Challenges/Opportunities

2016 Field Program

- Significant changes from last year's FUW
 - Flubendiamide
 - Specific PPD requirements
 - Emerging regulatory concerns
 - Overcommitted on tropical crops
- More frequent and enhanced communication with parties on projects
- Potential partnership with international partners to lessen the data requirements from FL/HI/PR while still covering requests



Threats

University Service Fees (indirect costs/overhead)

- IR-4's Federal authorizing language does not allow universities to charge overhead
- Universities under intense fiscal challenges, some can no longer absorb these costs
 - Cornell ended IR-4 involvement
 - Others (e.g. Univ. of FL) to follow?
- USDA believes they can modify agreement, allow Universities to collect 10% overhead
- Without new funds – **A Devastating Outcome**

Threats

EPA's Recent Regulatory Approach

IR-4 & Specialty Crop Community are significantly concerned b/c:

- FQPA fears coming true – wholesale cancellations of chemical classes (OP's)
- Reliance on non-core studies, such as - epidemiology studies
- Use of conservative models that overestimate risk

Threats

Mergers in Industry

- $1 + 1 < 2$
- Paralysis by Analysis
- Higher economic bar for new uses
- Less investment in new technology
- Opportunities for smaller companies & emerging technology

Threats

US Government Funding

- IR-4 funding flat for last five years, Lower than in 2009.
- Expenses continue to rise; (e.g. HQ was hit with a \$120,000 increase in fringe expenses)
- IR-4 has had to reduce research to balance budget

Path Forward Process

Started October 2015

Components

- Assess indirect cost issue
- Perform an Organizational Assessment
- Analyze the impact of a 10% reduction in funding
- Explore potential sources of new revenue
- Communication with specialty crop/pest management community



Need for IR-4 Continues to Increase

- EPA regulatory requirements are increasing while industry consolidates → More minor uses with a higher development costs.
- Specialty crop community needs access to international markets → Increased size & complexity of IR-4 studies.
- The crop protection industry is requiring more robust crop safety and product performance testing on specialty crops → Increased IR-4 research costs.

What have we learned:

- Universities will continue aggressive indirect cost recovery.
- Organizational Assessment → Recommendation to maintain existing network of research centers. Seek savings from process improvements.
- Focus on increased revenue, aggressively seek new funds:
 - Solicit new funding partners from the produce supply chain
 - Embrace contract research.
 - New grants from public and philanthropic sources.
 - Coordinated effort by specialty crop community to have Congress upwardly adjust IR-4 funding.

Action Items

What can you do:

- Become an active participant in efforts by commodity associations/food processors and other organizations to educate and advocate for increased funding for IR-4 from the US Congress. **Current request is to increase IR-4 funding from \$11.9 million to \$15.9 million.**
- Private sector - Establish or increase an annual unrestricted contribution to IR-4.
- Educate others in your networks about the contributions of IR-4 to crop protection and food production. Let them know of the critical fiscal challenges IR-4 is facing. Please help us make connections with other who can help.

Commodity Liaison Committee

New and expanding membership

- Nine new members in the last 2 years
 - Mike Bledsoe, Chair
 - Todd Scholz, Vice Chair
- A new sense of organized “activism”
- Congressional Liaison Sub-Committee
 - Lori Berger, Allen Mize, Laura Phelps, Keith Pitts, Steve Salisbury, Bob Simerly, Dennis Tristao.
- Appropriation process vs. Farm Bill

The Grand Challenge-2050

Where will we
find enough food
for ~~9~~ billion?

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THANK YOU!

