

# 2024 CPS RESEARCH SYMPOSIUM AGENDA

Tuesday, June 18

8:00 AM	<b>Welcome: Symposium Preview</b>  Joe Pezzini, Taylor Farms, Chair, Center for Produce Safety	Identification of routes and mechanisms for distribution and establishment of <i>Listeria monocytogenes</i> and <i>Listeria</i> spp. in avocado packing environments. <b>Alejandro Castillo</b> , Ph.D., Texas & AM
8:15 AM	<b>Animal intrusions and pathogen transfer</b>  Towards a holistic assessment of the food-safety risks imposed by wild birds. <b>Daniel Karp</b> , Ph.D., University of California, Davis  Panelists: <b>Samir Assar</b> , Ph.D., U.S. Food and Drug Administration <b>Morgan Madison</b> , Florida Fruit and Vegetable Association Moderator: <b>De Ann Davis</b> , Ph.D., Western Growers	Practical application of superheated steam to harvesting, processing, and produce packing tools and equipment. <b>Abby Snyder</b> , Ph.D., Cornell University  Cross-contamination risks in dry environments. <b>Nitin Nitin</b> , Ph.D., University of California, Davis  Panelists: <b>Suresh DeCosta</b> , Lipman Family Farms <b>Jorge Hernandez</b> , The Wendys Company Moderator: <b>Joan Rosen</b> , JC Rosen Resources
8:45 AM	<b>Produce safety and process control – Part 1: Wash systems</b>  Evidence for the industrial application of bacteriophages to control <i>Listeria monocytogenes</i> in leafy greens. <b>Pilar Truchado</b> , Ph.D., CEBAS-CSIC  Panelists: <b>Jim Brennan</b> , Smartwash Solutions <b>Natalie Dyenson</b> , International Fresh Produce Association Moderator: <b>Jennifer McEntire</b> , Ph.D., Food Safety Strategy	11:30 AM <b>Produce safety and process control – Part 2: Compost and soil amendments</b>  Panelist: <b>Trevor Suslow</b> , Ph.D., Trevor Suslow Consulting LLC Moderator: <b>Bob Whitaker</b> , Ph.D., Whitaker Consulting LLC
9:15 AM	<b>Master Class: How clean is clean? Tools for verifying your cleaning and sanitation programs.</b>  Speakers: <b>Michelle Danyluk</b> , Ph.D., University of Florida <b>Channah Rock</b> , Ph.D., University of Arizona	11:50 AM <b>LUNCH</b>
9:45 AM	<b>BREAK</b>	1:05 PM <b>Research in progress. 18 Months – Whetting your appetite for CPS research projects underway and to be completed this year:</b>  Occurrence and transfer of pathogens from the production environment to leafy greens grown in controlled environment agriculture. <b>Ana Allende</b> , Ph.D., CEBAS-CSIC  Optimizing methods for the detection and quantification of infectious human Norovirus from fresh berries using human intestinal enteroids. <b>Malak Esseili</b> , Ph.D., University of Georgia
10:15 AM	<b>Understanding environmental pathogens and their control</b>	A viability assay for Cyclospora and its surrogates Eimeria. <b>Asis Khan</b> , Ph.D., USDA ARA

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	Microbiological risk assessment using QMRA in preharvest agriculture water treatment systems for leafy greens. <b>Channah Rock</b> , Ph.D., University of Arizona	2:20 PM	<b>BREAK/ MEET THE SCIENTISTS</b>
	Flexible risk process models to quantify residual risks and the impact of interventions. <b>Matthew Stasiewicz</b> , Ph.D., University of Illinois	3:00 PM	<b>Pathogen persistence and growth on fresh produce</b>
	A metagenomic approach to food safety risk mitigation in pears. <b>Laura Strawn</b> , Ph.D., Virginia Tech		Assessing Romaine lettuce “Forward Processing” for potential impacts on EHEC growth, antimicrobial susceptibility, and infectivity. <b>Xiangwu Nou</b> , Ph.D., USDA ARS
	Testbeds for microbial source tracking using microfluidic paper-based analytical devices. <b>Mohit Verma</b> , Ph.D., Purdue University		Quantifying risk associated with changes in EHEC physiology during post-harvest pre-processing stages of leafy green production. <b>Teresa Bergholz</b> , Ph.D., Michigan State University
	Supplementing food antimicrobials in commercial edible coatings to enhance the safety and extend the shelf-life of stone fruits. <b>Qixin Zhong</b> , Ph.D., The University of Tennessee		Panelists: <b>Amy Parks</b> , Ph.D., Dole plc <b>Richard Warsaw</b> , Braga Fresh Moderator: <b>De Ann Davis</b> , Ph.D., Western Growers
	Control of <i>Salmonella</i> and <i>Listeria monocytogenes</i> on peaches through spray-bar brush bed sanitizer intervention. <b>Meijun Zhu</b> , Ph.D., Washington State University	3:50 PM	<b>Master Class: CRISPR to AI: Do new technologies herald new approaches to produce safety?</b>
	Interaction of resident microbiome and <i>Listeria</i> on pears during cold storage. <b>Meijun Zhu</b> , Ph.D., Washington State University		Speaker: <b>Benjamin Rosenthal</b> , S.D., USDA ARS
	Moderator: <b>Emily Moyer</b> , Ph.D., International Fresh Produce Association	4:20 PM	<b>Audience Q&amp;A</b>
2:00 PM	<b>Covered agriculture</b>		Panelists: <b>Suresh DeCosta</b> , Lipman Family <b>Natalie Dyenson</b> , International Fresh Produce Association Moderator: <b>Bob Whitaker</b> , Ph.D., Whitaker Consulting LLC
	Panelist: <b>Margaret Dominguez</b> , Soli Organic™ Moderator: <b>Jennifer McEntire</b> , Ph.D., Food Safety Strategy	4:50 PM	<b>WELCOME RECEPTION</b>

# 2024 CPS RESEARCH SYMPOSIUM AGENDA

Wednesday, June 19

8:00 AM **CPS REPORT TO THE INDUSTRY - WHAT WAS NEW 2023: WHAT TO EXPECT IN 2024**  
**Joe Pezzini**, Taylor Farms, Chair Center for Produce Safety  
**Bonnie Fernandez- Fenaroli**, Executive Director, Center for Produce Safety

Panelist:  
**Joelle Mosso**, Western Growers  
**Cassidi Amos**, Bolthouse Fresh Foods  
Moderator: **Bob Whitaker**, Ph.D., Whitaker Consulting LLC

8:30AM **Pathogen detection methods**

Development of an infrared-functionalized microbalance sensor for *Cyclospora cayetanensis* detection and differentiation. **Jenny Maloney**, Ph.D., USDA ARS

AFECCT: Assessing filtration efficacy for *Cyclospora* control. **Benjamin Rosenthal**, S.D., USDA ARS

Panelists:  
**Drew McDonald**, Taylor Farms  
**Joelle Mosso**, Western Growers  
Moderator: **Bob Whitaker**, Ph.D., Whitaker Consulting LLC

10:50 AM **Professional Development Award Recognition**

Moderator: **Bret Erickson**, Little Bear Produce

11:20 AM **Agricultural water management**

*Cyclospora cayetanensis* monitoring in agricultural water.  
**Lia Stanciu-Gregory**, Ph.D., Purdue University

Panelists:  
**John Gurrisi**, Fresh Express  
**Felice Arboisiere**, Dole Fresh Vegetables  
Moderator: **Jennifer McEntire**, Ph.D., Food Safety Strategy

9:20 AM **BREAK**

11:50 AM **LUNCH**

9:50 AM **Master Class:** Produce outbreak investigations: A look behind the curtain about what is happening and what should be happening?

Speaker:  
**Martin Wiedmann**, Ph.D., Cornell University

1:00 PM **Master Class:** Simplifying QMRA: A roadmap to prioritize everyday food safety effectiveness

Speaker:  
**Gustavo Reyes**, Ph.D., Western Growers

10:20 AM **Emerging use of genomics**

Microbial characterization of irrigation waters using rapid, inexpensive and portable next generation sequencing technologies. **Kerry Cooper**, Ph.D., University of Arizona

1:30 PM **Pathogen growth, persistence, and movement on the farm**

Strategic approaches to mitigate *Salmonella* contamination of bulb onions. **Vijay Joshi**, Ph.D., Texas A&M

Assessing the potential for production practices to impact dry bulb onion safety. **Joy Waite-Cusic**, Ph.D., Oregon State University

2:20 PM **BREAK**

2:40 PM CPS Tri-State special project on harvest equipment:  
A data-informed consensus of "clean for the  
intended purpose," **Channah Rock**, Ph.D.,  
University of Arizona, **Michelle Danyluk**, Ph.D.,  
University of Florida

Validation study for the tree fruit industry: effective  
strategies to sanitize harvest bins and picking bags.  
**Valentina Trinetta**, Ph.D., Kansas State University

Panelists:

**Drew McDonald**, Taylor Farms

**Trevor Suslow**, Ph.D., Trevor Suslow Consulting LLC

Moderator: **Kinsey Clishe**, North Bay Produce

3:30 PM **Audience Q&A**

Panelists:

**Drew McDonald**, Taylor Farms

**Suresh DeCosta**, Lipman Family Farms

Moderator: **Jennifer McEntire**, Ph.D., Food Safety  
Strategy

4:00 PM **Closing Remarks**

**Thank you Reception**