

2024 CPS RESEARCH SYMPOSIUM AGENDA

Tuesday, June 18

8:00 AM	Welcome: Symposium Preview 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. Alejandro Castillo , Ph.D., Texas & AM
8:15 AM	Animal intrusions and pathogen transfer Towards a holistic assessment of the food-safety risks imposed by wild birds. Daniel Karp , Ph.D., University of California, Davis Panelists: Samir Assar , Ph.D., U.S. Food and Drug Administration Morgan Madison , Florida Fruit and Vegetable Association Moderator: De Ann Davis , Ph.D., Western Growers	Practical application of superheated steam to harvesting, processing, and produce packing tools and equipment. Abby Snyder , Ph.D., Cornell University Cross-contamination risks in dry environments. Nitin Nitin , Ph.D., University of California, Davis Panelists: Suresh DeCosta , Lipman Family Farms Jorge Hernandez , Wendys Moderator: Joan Rosen , JC Rosen Resources
8:45 AM	Produce safety and process control – Part 1: Wash systems Evidence for the industrial application of bacteriophages to control <i>Listeria monocytogenes</i> in leafy greens. Pilar Truchado , Ph.D., CEBAS-CSIC Panelists: Jim Brennan , Smartwash Solutions Natalie Dyenson , International Fresh Produce Association Moderator: Jennifer McEntire , Ph.D., Food Safety Strategy	11:25 AM Produce safety and process control – Part 2: Compost and soil amendments Panelists: Trevor Suslow , Ph.D., Trevor Suslow Consulting LLC Moderator: Bob Whitaker , Ph.D., Whitaker Consulting LLC
9:15 AM	Master Class: How clean is clean? Tools for verifying your cleaning and sanitation programs. Speakers: Michelle Danyluk , Ph.D., University of Florida Channah Rock , Ph.D., University of Arizona	11:45 AM LUNCH
9:45 AM	BREAK	1:00 PM Research in progress. 18 Months – Whetting your appetite for CPS research projects underway and to be completed this year: Occurrence and transfer of pathogens from the production environment to leafy greens grown in controlled environment agriculture. Ana Allende , Ph.D., CEBAS-CSIC
10:15 AM	Understanding environmental pathogens and their control	Optimizing methods for the detection and quantification of infectious human Norovirus from fresh berries using human intestinal enteroids. Malak Esseili , Ph.D., University of Georgia

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	Microbiological risk assessment using QMRA in preharvest agriculture water treatment systems for leafy greens. Channah Rock , Ph.D., University of Arizona	2:20 PM	BREAK/ MEET THE SCIENTISTS
	Flexible risk process models to quantify residual risks and the impact of interventions. Matthew Stasiewicz , Ph.D., University of Illinois	3:00 PM	Pathogen persistence and growth on fresh produce
	A metagenomic approach to food safety risk mitigation in pears. Laura Strawn , Ph.D., Virginia Tech		Assessing Romaine lettuce “Forward Processing” for potential impacts on EHEC growth, antimicrobial susceptibility, and infectivity. Xiangwu Nou , Ph.D., USDA ARS
	Testbeds for microbial source tracking using microfluidic paper-based analytical devices. Mohit Verma , Ph.D., Purdue University		Quantifying risk associated with changes in EHEC physiology during post-harvest pre-processing stages of leafy green production. Teresa Bergholz , Ph.D., Michigan State University
	Supplementing food antimicrobials in commercial edible coatings to enhance the safety and extend the shelf-life of stone fruits. Qixin Zhong , Ph.D., The University of Tennessee		Panelists: Amy Parks , Ph.D., Dole plc Richard Warsaw , Braga Fresh Moderator: De Ann Davis , Ph.D., Western Growers
	Control of <i>Salmonella</i> and <i>Listeria monocytogenes</i> on peaches through spray-bar brush bed sanitizer intervention. Meijun Zhu , Ph.D., Washington State University	3:50 PM	Master Class: Basics of molecular microbiology - PCR was a monumental step from cultured samples, what is coming next?
	Interaction of resident microbiome and <i>Listeria</i> on pears during cold storage. Meijun Zhu , Ph.D., Washington State University		Speaker: Benjamin Rosenthal , S.D., USDA ARS
	Moderator: Emily Moyer , Ph.D., International Fresh Produce Association	4:20 PM	Audience Q&A
2:00 PM	Covered agriculture		Panelists: Suresh Decosta , Lipman Family Natalie Dyenson , International Fresh Produce Association Moderator: Bob Whitaker , Ph.D., Whitaker Consulting LLC
	Panelists: Monica Noble , 80 Acres Farms Moderator: Jennifer McEntire , Ph.D., Food Safety Strategy	4:50 PM	WELCOME RECEPTION

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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
TBA
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* infection 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

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2:20 PM **BREAK**

2:50 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

Closing Remarks

4:00 PM **Thank you Reception**