

2020 CPS RESEARCH SYMPOSIUM – WEBINAR SERIES

AGENDA AT A GLANCE

Tuesday, June 23

SESSION I

10:00 am Welcome: **Dave Corsi**, Wegmans and Chair of the CPS Board of Directors

Moderator: **Suresh DeCosta**, Lipman Family Farms

FINAL REPORTS

Managing time-temperature risk in fresh produce using predictive models for Listeria. **Don Schaffner, Ph.D.**, Rutgers University. [Abstract](#), [PI Bio](#), [Final Report](#), [Calculator](#)

A Systematic Review of Listeria Growth and Survival on Fruit and Vegetable Surfaces: Responding to Critical Knowledge Gap. **Laura Strawn, Ph.D.**, Virginia Tech. [Abstract](#), [PI Bio](#), [Final Report](#)

Exploring the Relationship Between Product Testing and Risk. **Emma Hartnett, Ph.D.**, Risk Sciences International. [Abstract](#), [PI Bio](#), [Final Report](#), [Appendix](#)

Modeling tools for design of science-based Listeria environmental monitoring programs and corrective action strategies. **Renata Ivanek, Ph.D.**, Cornell University. [Abstract](#), [PI Bio](#), [Final Report](#)

INTERIM REPORTS

Simulation Analysis of In-Field Produce Sampling for Risk-Based Sampling Plan Development. **Matthew Stasiewicz, Ph.D.**, University of Illinois. [Abstract](#), [PI Bio](#)

WHAT'S NEW IN 2020

Factors affecting persistence of Listeria monocytogenes need to be identified for evaluation and prioritization of interventions. **Martin Wiedmann, Ph.D.**, Cornell University. [Poster](#)

Environmental microbial risks associated with vented produce in distribution centers. **Laurel Dunn, Ph.D.**, University of Georgia. [Poster](#)

11:30 am **Close of Session I**

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10:00 am Welcome: **Drew McDonald**, Taylor Fresh Foods and Chair of the CPS Tech Committee

Moderator: **Jennifer McEntire**, United Fresh Produce Association

FINAL REPORTS

The effects of storage conditions and the microbiome of non-traditional salad ingredients on the fate of *Listeria monocytogenes*. **Amanda Lathrop, Ph.D.**, California Polytechnic State University, San Luis Obispo. [Abstract](#), [PI Bio](#), [Final Report](#)

Rechargeable antimicrobial and antifouling plastics for improved cleaning and sanitation of plastic bins and totes. **Nitin Nitin, Ph.D.**, University of California, Davis. [Abstract](#), [PI Bio](#), [Final Report](#)

Preventive sanitation measures for *Listeria monocytogenes* biofilms in critical postharvest harboring sites. **Kay Cooksey, Ph.D.**, Clemson University. [Abstract](#), [PI Bio](#), [Final Report](#)

INTERIM REPORTS

Fate of different *Listeria monocytogenes* strains on different whole apple varieties during long-term simulated commercial storage, **Elliot Ryser, Ph.D.**, Michigan State University. [Abstract](#), [PI Bio](#)

Listeria monocytogenes growth potential, kinetics, and factors affecting its persistence on a broad range of fresh produce. **Xiangwu Nou, Ph.D.**, USDA ARS Beltsville. [Abstract](#), [PI Bio](#)

Non-Fouling Food Contact Surfaces - Prevention of Biofilm and Surface-Mediated Cross-Contamination. **Boce Zhang, Ph.D.**, University of Massachusetts. [Abstract](#), [PI Bio](#)

WHAT'S NEW IN 2020

Listeria develops reduced sanitizer sensitivity but not resistance at recommended sanitizer use levels. **Martin Wiedmann, Ph.D.**, Cornell University. [Poster](#)

Possibility, duration, and molecular predictors of sanitizer tolerance in *Listeria monocytogenes*. **Xiangyu Deng, Ph.D.**, University of Georgia. [Poster](#)

Produce surface treatments based on bacteriophages and bacteriocin-producing cultures to consistently reduce 2-log of *Listeria monocytogenes* on leafy greens and pre-cut fruit and vegetables. **Ana Allende, Ph.D.**, CEBAS-CSIC Spain. [Poster](#)

Verification and validation of environmental monitoring programs for biofilm control in the packinghouse. **Paul Dawson, Ph.D.**, Clemson University. [Poster](#)

11:30 am **Close of Session II**

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10:00 am Welcome: **Tammy Switucha**, Canadian Food Inspection Agency and CPS Board of Directors
Moderator: **De Ann Davis**, Western Growers Association

FINAL REPORTS

Engineering and ecological approaches reduce Pacific tree frog intrusion into leafy green agriculture. **Michelle Green, Ph.D.**, University of South Florida, St. Petersburg. [Abstract](#), [PI Bio](#), [Final Report](#), [Frog Field Guide](#)

Establishment of vegetative buffer zones to reduce the risk of STEC and Salmonella transmission from animal operations to fresh produce on co-managed farms. **Sid Thakur, Ph.D.**, North Carolina State University. [Abstract](#), [PI Bio](#), [Final Report](#)

Cyclospora Prevalence in Irrigation Water in Fresh Produce Growing Regions in Arizona. **Gerardo Lopez, Ph.D.**, University of Arizona. [Abstract](#), [PI Bio](#), [Final Report](#)

INTERIM REPORT

Towards a decision-support tool for identifying and mitigating on-farm risks to food safety. **Daniel Karp, Ph.D.**, University of California, Davis. [Abstract](#), [PI Bio](#)

WHAT'S NEW IN 2020

Analysis of the presence of Cyclospora in waters of the Mid-Atlantic States and evaluation of removal and inactivation by filtration. **Kalmia Kniel, Ph.D.**, University of Delaware. [Poster](#)

Sources and prevalence of Cyclospora cayetanensis in Southeastern US water sources and growing environments. **Mia Mattioli, Ph.D.**, Centers for Disease Control. [Poster](#)

The prevalence of Cyclospora in water and produce. **Ynés Ortega, Ph.D.**, University of Georgia. [Poster](#)

11:30 am **Close of Session III**

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10:00 am Welcome: **Doug Grant**, The Oppenheimer Group and Chair of the CPS Knowledge Transfer Task Force

Moderator: **Trevor Suslow**, Produce Marketing Association

FINAL REPORTS

Metagenomics to identify viral indicators in the produce chain. **Gloria Sánchez Moragas, Ph.D.**, IATA-CSIC, Spain. [Abstract](#), [PI Bio](#), [Final Report](#)

Listeria whole genome sequence data reference sets are needed to allow for improved persistence assessment and source tracking. **Martin Wiedmann, Ph.D.**, Cornell University. [Abstract](#), [PI Bio](#), [Final Report](#)

Identifying competitive exclusion microorganisms against Listeria monocytogenes from biological soil amendments by metagenomic, metatranscriptomic, and culturing approaches. **Xiuping Jiang, Ph.D.**, Clemson University. [Abstract](#), [PI Bio](#), [Final Report](#), [Appendix](#)

INTERIM REPORT

Illuminating the role of whole genome sequencing in produce safety. **Kerry Cooper, Ph.D.**, University of Arizona. [Abstract](#), [PI Bio](#)

11:30 am **Close of Session IV**

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10:00 am Welcome: **Dave Corsi**, Wegmans Food Markets
Victor Smith, JV Smith Companies

Moderator: **Joan Rosen**, JC Rosen Resources

FINAL REPORTS

FSMA agricultural-water die-off compliance provisions benefit from condition-specific modifiers. **Renata Ivanek, Ph.D.**, Cornell University. [Abstract](#), [PI Bio](#), [Final Report](#)

Scientifically valid corrective actions for multiple harvest shade-house production systems. **Trevor Suslow, Ph.D.**, University of California, Davis. [Abstract](#), [PI Bio](#), [Final Report](#)

INTERIM REPORTS

Significance of sanitizers on induction of viable but non-cultivable (VBNC) foodborne bacteria and their survival and resuscitation in fresh produce. **Ana Allende, Ph.D.**, CEBAS-CSIC, Spain. [Abstract](#), [PI Bio](#)

Agriculture Water Treatment - Southwest Region. **Channah Rock, Ph.D.**, University of Arizona. [Abstract](#), [PI Bio](#)

Development of a Model to Predict the Impact of Sediments on Microbial Irrigation Water Quality. **Charles Gerba, Ph.D.**, University of Arizona. [Abstract](#), [PI Bio](#)

WHAT'S NEW IN 2020

Occurrence and accumulation of potentially infectious viruses in process water and impact of water disinfection practices to minimize viral cross-contamination. **Gloria Sánchez Moragas, Ph.D.**, IATA-CSIC, Spain. [Poster](#)

Post-harvest fresh produce wash water disinfection by submerged cold plasma non-chemical continuous treatment system. **Alexander Fridman, Ph.D.**, Drexel University. [Poster](#)

11:30 am Close of Session V

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