

The Ohio Controlled Environment Agriculture Center (OHCEAC) Presents:

**Advancement of Microbial Technologies for
Controlled Environment Agriculture**

- Little Things with BIG Impacts -

Date: July 20, 2022

Location: Columbus, OH and Online via Zoom

Wednesday, July 20th, 2022 – All times are in Eastern Time (EDT)

8:15-8:30 AM Welcome and Introductions
Dr. Chieri Kubota – OHCEAC Director

Keynote Presentations Session 1

Moderator: Dr. Michelle Jones – Ohio State University

8:30-9:20 AM Microbial Biofungicides and Biostimulants: Vital Tools for
Managing Health of Protected Crops
Dr. Matthew Krause – Lallemand Plant Care

9:20-10:10 AM Putting Microbes to Work: Solving Problems in Infinite
Space
Dr. Ben Holt – AgBiome, Inc.

10:10-10:20 AM Break

Keynote Presentations Session 2

Moderator: Dr. Christopher Taylor – Ohio State University

10:20-11:10 AM Industry-University Collaboration Developing
Biopesticides for Disease Control in Hydroponics
Dr. Jane Fife – 3Bar Biologics Inc.

11:10-12:00 PM Healthy Hydroponics - Exploring the CEA Microbiome
**Dr. Trevor Charles – University of Waterloo, Waterloo
Centre for Microbial Research & Metagenom Bio Life
Science Inc.**

12:00-1:00 PM Lunch (Provided for In-Person Attendees)

1:00-1:10 PM 5 Minute Sponsor Presentations



Advancement of Microbial Technologies for CEA

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Research Presentation Session

Moderator: Dr. James Altland – USDA

- 1:10-1:30 PM Huge Impacts from Tiny Organisms: Beneficial Bacteria Improve Stress Tolerance of Greenhouse Ornamentals
Dr. Michelle Jones – Ohio State University
- 1:30-1:50 PM Chance Favors the Prepared Mind. Discovery and Development of Biocontrol Agents for the Control of Diseases of Hydroponic Systems.
Dr. Christopher Taylor – Ohio State University
- 1:50-2:10 PM Microbial Communities Associated with Various Hydroponic Lettuce Production Systems in Ohio
Dr. Timothy S. Frey – Ohio State University
- 2:10-2:15 PM 5 Minute Sponsor Presentation
- 2:15-2:20 PM Break
- 2:20-2:40 PM *In situ* Microbial Community Analysis of Container Soilless Substrates
Silvia Valles – Ohio State University
- 2:40-3:00 PM Survival of Foodborne Bacterial Pathogens in Leafy Green Hydroponic Production Systems
Dr. Melanie Lewis Ivey & Dr. Sanja Ilic – Ohio State University
- 3:00-4:30 PM Networking, Waterman Farm and Greenhouse Tours – 3 Station Rotation
- 5:00-7:00 PM Happy Hour Reception at Hofbräuhaus Columbus
Sponsored by Smithers-Oasis, Premier Tech & Ceragen

