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Wastewater Disease Surveillance Summit

August 12 & 13 / In person and online
Atlanta AMA Conference Center / Zoom



DAY 1

Monday, August 12, 2024

8:30 a.m. - 5:15 p.m.

8:00 a.m. **Registration**

8:30 a.m. **Welcome**
Anna Mehrotra, Water Environment Federation

8:40 a.m. **Keynote**
Kody Kinsley, North Carolina Department of Health and Human Services

8:50 a.m. **Session 1: *Did Someone Say Upstream? A Deep Dive into Subsewershed Sampling***

Moderator: Smiti Nepal, Environmental Protection Agency

Presenters:

Lauren Stadler, Rice University: *Flush to action: Monitoring school wastewater for vaccine-preventable diseases*

Edwin Oh, University of Nevada, Las Vegas: *Practical considerations for upstream sampling*

Scott Bessler, Cincinnati Metropolitan Sewer District: *Dual benefits of upstream sampling for utilities*

Cindy Friedman, U.S. Centers for Disease Control and Prevention: *Ready for takeoff: airplane wastewater as a tool for early pathogen detection and public health surveillance*

10:20 a.m. **Break**

10:45 a.m. **Session 2: *What We've Learned About Subsewershed Sampling***

Panelists discuss their perspectives on the value of subsewershed sampling and the associated challenges, such as ethics, cost, and logistical complexity

Moderator: Zuzana Bohrer, Ohio Department of Health

Panelists:

Katherine Graham, Georgia Institute of Technology

Natalie Ram, University of Maryland

Drew Rostain, City of Tempe, Arizona

Kirsten St. George, New York State Department of Health

12:00 p.m. **Break for Lunch**

On your own: see digital program for restaurant ideas

2024 Wastewater Disease Surveillance Summit
DAY 1 (continued)
Monday, August 12, 2024
8:30 a.m. - 5:15 p.m.

- 1:15 p.m. Poster Session**
Posters are available throughout the venue and will be left up for the duration of the Summit: see digital program for a list of poster numbers, titles, and presenters
- 2:15 p.m. Session 3: *Not Everything Everywhere All at Once: In Pursuit of Laboratory Efficiencies***
Moderator: Martin Shafer, Wisconsin State Laboratory of Hygiene
- Presenters:**
Hannah Healy, Yale University: *Choosing the right concentration/extraction method for your site*
Griffin Knuth, Wisconsin State Laboratory of Hygiene: *Wastewater surveillance of multi-drug resistant organisms*
Shannon Matzinger, Colorado Department of Public Health and Environment: *The role of sequencing*
Brenna McGruder, Florida Department of Health: *Considerations when expanding testing or tailoring targeted surveillance*
Eric Vaughn, DC Department of Forensic Sciences: *Lab considerations for onboarding new targets*
- 3:45 p.m. Break**
- 4:00 p.m. Session 4: *What We've Learned About PCR Inhibition***
Panelists provide mini-presentations discussing their experiences with inhibitory substances in wastewater and the importance of understanding conditions in the collection system
- Moderator:** Jeff Wenzel, Missouri Department of Health and Senior Services
- Panelists:**
Errin Carter, Hampton Roads Sanitation District
Chung-Ho Lin, University of Missouri, Columbia
Thomas Clerkin, University of North Carolina, Chapel Hill
Ryan Reinke, Los Angeles County Sanitation Districts
- 5:15 p.m. Adjourn**

Wastewater Disease Surveillance Summit
DAY 2
Tuesday, August 13, 2024
8:30 a.m. – 3:45 p.m.

- 8:00 a.m. Registration**
- 8:30 a.m. Welcome**
Jennifer Sabater, Water Environment Federation
- 8:40 a.m. Session 5: *One Size Doesn't Fit All: Putting Wastewater Data to Good Public Health Use***
Moderator: Heather Reese, U.S. Centers for Disease Control and Prevention
- Presenters:**
Ariel Christensen, North Carolina Department of Health & Human Services: *Interpreting data for Influenza and H5N1, mpox and other outbreaks*
Chenhui Li, Missouri Department of Health and Senior Services: *Using influenza and RSV data and communicating through dashboards*
Shoba Nair, Boston Public Health Commission: *High-risk substance targets*
Alessandro Rossi, Utah Public Health Laboratory: *Wastewater surveillance of C. auris, a promising tool in the control of a highly concerning pathogen*
Ben Yoakum, Orange County Utilities: *Working with multiple laboratories*
- 10:10 a.m. Break**
- 10:30 a.m. Session 6: *Planning for Responsive Sampling and Testing - Thoughts and Future Perspectives***
Panelists discuss their perspectives on developing sampling programs for both endemic disease and outbreaks, and how to fill in geographic gaps
- Moderator:** Liam O'Rourke, New Hampshire Department of Health and Human Services
- Panelists:**
Amanda Feldpausch, Georgia Department of Public Health
Marc Johnson, University of Missouri, Columbia
Helen Nguyen, University of Illinois, Urbana-Champaign
Stacie Reckling, U.S. Centers for Disease Control and Prevention
- 11:45 a.m. Break for Lunch**
On your own: see digital program for restaurant ideas

Wastewater Disease Surveillance Summit
DAY 2 (continued)
Tuesday, August 13, 2024
8:30 a.m. – 3:45 p.m.

- 1:00 p.m. Breakout Discussions**
Move to one of 7 groups, each focused on a specific role in wastewater surveillance programs (program coordination, sample collection, laboratory analysis, data analysis and management, data use and public health action, research, and public engagement) for a facilitated discussion on different aspects of new wastewater surveillance targets. *You are encouraged to join any group of interest, not necessarily the one corresponding to your current program role.* Please refer to the digital program for additional information.
- 2:00 p.m. Session 7: Equity and Sustainability: Program Considerations over the Long Term**
Moderator: John Person, U.S. Centers for Disease Control and Prevention
Presenters:
Rochelle Holm, University of Louisville: *Public perception of wastewater surveillance programs*
Rachel West, U.S. Centers for Disease Control and Prevention: *Partner engagement and sustaining the National Wastewater Surveillance System*
Jonathon Yoder, U.S. Centers for Disease Control and Prevention: *Pandemic preparedness*
Alexander Yu, California Department of Public Health: *Standardization of data*
- 3:15 p.m. Closing Presentation**
Nicole Fehrenbach, U.S. Centers for Disease Control and Prevention: *The future of the National Wastewater Surveillance System*
- 3:45 p.m. Adjourn**