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### MONDAY, NOVEMBER 6, 2017

**REGISTRATION**  
12:00 PM – 7:00 PM  
ROYAL REGISTRATION

**TBD**  
1:00 PM – 5:30 PM  
HARBOR ROOM

**RESERVED FOR POP-UP MEETINGS**  
1:00 PM – 5:30 PM  
PACIFIC ROOM

**POSTERS**  
1:00 PM – 8:30 PM  
GRAND A-D

### OPEN SESSIONS

**SEDRIC BASIC TRAINING WITH NEW LINE LIST EDITOR**  
1:00 PM – 3:00 PM  
GRAND E  
Trainers: Lyndsay Bottichio (CDC), Rashida Hassan (CDC)

SEDRIC is a secure, web-based platform that combines epidemiologic, laboratory, and traceback data in real time for easier collaboration in outbreak investigations. This training will orient users to a new and updated line list editor, dashboard, and basic queries in object explorer.

**588-839-17, 2.0 P.A.C.E contact hours**  
At the conclusion of this session, the participant will be able to:
- Describe data analysis tools, interpretation and data management of sequence-based data within BioNumerics and other software applications developed for the PulseNet Network.

**PULSENET DATA ANALYSIS USING BIONUMERICIAN AND NCBI’S PATHOGEN DETECTION PIPELINE**  
1:00 PM – 3:00 PM  
GRAND F  
Moderators: Molly Leeper (CDC) and Beth Tolar (CDC)

This session will discuss the following topics: analyzing and managing PFGE data in BioNumerics v. 6.6; analyzing and managing sequence data in BioNumerics v. 7.6; interpreting hqSNP/wgMLST trees; creating cluster/outbreak reports for epidemiologists; and utilizing the NCBI Pathogen Detection Pipeline.

**COMMUNICATIONS**  
1:00 PM – 3:00 PM  
GRAND G  
Part I Moderators: Brittany Behm (CDC), Natasha Dowell (CDC), Siobhan DeLancey (FDA), Michelle Catlin (USDA-FSIS)

**Working with the Media and Your Public Information Officer (Part I)**  
During the first part of this session, speakers will discuss strategies for collaborating with your public information officer or communications specialists to be best prepared in outbreak investigations; what the news media need from public health officials and how to work with them most effectively; how to develop and use press announcements and talking point documents to proactively promote public
health messages during an outbreak or recall situation; and practical techniques for conducting successful media interviews, answering questions, and bridging to key messages.

**Best Practices for Communicating with Companies Involved in Outbreaks (Part II)**

During the second part of this session, speakers will discuss different processes federal agencies use to communicate with companies involved in outbreaks and available resources to use when communicating with companies during local, state, and multijurisdictional outbreaks.

Part II Moderators: Laura Whitlock (CDC), Siobhan DeLancey (FDA), RADM David Goldman (USDA-FSIS)

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<tr>
<th>WHAT’S NEW WITH NORS</th>
<th>1:00 PM – 3:00 PM</th>
<th>GARDEN 1 &amp; 2</th>
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<td>During the NORS session, speakers will provide a demonstration of recent NORS interface enhancements; present and discuss progress towards a NORS public data download website (expanded FOOD Tool); and discuss current reporting challenges and opportunities to address those challenges to improve reporting to NORS.</td>
<td>Moderators: Aron Hall (CDC), Sam Crowe (CDC), Virginia Roberts (CDC)</td>
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<th>CAPACITY BUILDING IN ACTION</th>
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<th>GARDEN 3</th>
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<td>This session will consist of presentations from FDA's Rapid Response Teams (RRTs) and CDC's Foodborne Centers for Outbreak Response Enhancement (FoodCORE), OutbreakNet Enhanced, and Integrated Food Safety Centers of Excellence (CoEs). Each program will describe their goals, accomplishments, and products they've created to improve surveillance, outbreak investigations, and team collaboration. At the end of the session, there will be a panel discussion with participants from all four programs.</td>
<td>Moderators: Gwen Biggerstaff (CDC), Dale Morse (CDC), Travis Goodman (FDA)</td>
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*Speakers: Anna Newton (CDC), Elizabeth Sillence (CDC), Brett Weed (FDA)*

**BREAK**

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<th>BREAK</th>
<th>3:00 PM – 3:30 PM</th>
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**SEDRIC ADVANCED TRAINING WITH WHOLE GENOME SEQUENCE TREES**

SEDRIC is a secure, web-based platform that combines epidemiologic, laboratory, and traceback data in real time for easier collaboration in outbreak investigations. This training will include more advanced object explorer functions, mapping, finding questionnaires and whole genome sequencing trees, text cloud, and traceback diagrams.

Trainers: Lyndsay Bottichio (CDC), Rashida Hassan (CDC)

**588-840-17, 2.0 P.A.C.E contact hours**

At the conclusion of this session, the participant will be able to:

- Describe whole genome sequencing laboratory methods used within the PulseNet Network
**WGS WET LAB TROUBLESHOOTING**  
This session will discuss the following topics: troubleshooting problematic Illumina MiSeq runs based on the observed run parameters and sequence quality metrics; SAV demos of problematic runs; and best practices in the wet lab workflow, including preventing contamination and obtaining an optimal insert size.

**Moderators:** Ashley Sabol (CDC), Daniel Schoeffner (Illumina), Eija Trees (CDC)

**WGS WET LAB TROUBLESHOOTING**  
This session will discuss the following topics: troubleshooting problematic Illumina MiSeq runs based on the observed run parameters and sequence quality metrics; SAV demos of problematic runs; and best practices in the wet lab workflow, including preventing contamination and obtaining an optimal insert size.

**Moderators:** Ashley Sabol (CDC), Daniel Schoeffner (Illumina), Eija Trees (CDC)

588-882-17, 2.0 P.A.C.E. contact hours
At the conclusion of this session the participant will be able to:
- Describe pulsed-field gel electrophoresis (PFGE) laboratory methods used within the PulseNet Network

**LEARN MORE ABOUT PFGE BEFORE IT’S TOO LATE!**  
During this session, speakers will provide guidance on improving PFGE quality including protocol reminders, cost saving tips, and establishing an efficient PFGE workflow. Speakers will also discuss lab-specific PFGE topics (i.e., common and uncommon troubleshooting issues, data interpretation, etc.)

**Moderators:** Lavin Joseph (CDC), Molly Freeman (CDC)

**FOOD CODE FOR NON-ENVIRONMENTAL HEALTH PROFESSIONALS**  
During this session, speakers will review the food code, the main body of regulations governing retail food establishments, focusing on the strengths and limitations for preventing foodborne illnesses; review the process for controlling a foodborne illness outbreak (regulatory actions that can be taken); and discuss the process involved in developing the Food Code with scientific rationale.

**Moderator:** Larry Ramdin (Salem Board of Health), Michele DiMaggio (Contra Costa County)

**ENVIRONMENTAL HEALTH SPECIALISTS NETWORK (EHS-NET): CONTRIBUTIONS TO FOODBORNE ILLNESS OUTBREAK INVESTIGATION AND PREVENTION**  
For this session, state and local food safety program staff funded by CDC’s EHS-Net cooperative agreement will discuss past and current EHS-Net projects that inform foodborne illness outbreak investigation and prevention. They will also discuss how these projects demonstrate the important roles environmental health plays in outbreak investigation and prevention.

**Speakers:** Lauren DiPrete (Southern Nevada HD), David Nicholas (NYSDOH), D. J. Irving (TN), Joyce Tuttle (CA), Daniel O’Halloran (NYC)

**OUTBREAK INVESTIGATION FROM DETECTION TO ACTION – THE USDA-FSIS PERSPECTIVE**  
Speakers from various FSIS Offices will present on the FSIS perspective on an outbreak investigation, from surveillance to

**Moderators:** Doug Noveroske (USDA-FSIS), William Lanier (USDA-FSIS)
intervention; FSIS advances in information exchange and collaboration between public health partners; using FSIS investigatory and enforcement tools to protect public health; and applying lessons learned from outbreaks to improve FSIS food safety policy.

Speakers: Bonnie Kissler (USDA-FSIS), Mark Crowe (USDA-FSIS), Louis Tate (USDA-FSIS), Chau Vu (USDA-FSIS), Stephanie Defibaugh-Chavez (USDA-FSIS), Melanie Abley (USDA-FSIS)
WELCOME SESSION AND KEYNOTE ADDRESS

WELCOME

Dr. Matthew Zhan, MD
Medical Director, Epidemiology
Orange County Health Care Agency
6:00 PM – 6:10 PM
ROYAL BALLROOM

Video Welcome
Dr. Brenda Fitzgerald, MD
Director, CDC, and Administrator, ATSDR
Centers for Disease Control and Prevention
6:10 PM – 6:20 PM

Carmen Rottenberg, JD
Deputy Under Secretary for Food Safety – Acting
United States Department of Agriculture
6:20 PM – 6:30 PM

Stephen Ostroff, MD
Deputy Commissioner for Foods and Veterinary Medicine
United States Food and Drug Administration
6:30 PM – 6:40 PM

KEYNOTE

Frank Yiannas
Vice President, Food Safety
Walmart
6:45 PM – 7:30 PM
ROYAL BALLROOM

CASH BAR

7:30 PM – 8:30 PM
GRAND FOYER

TUESDAY, NOVEMBER 7, 2017

REGISTRATION

7:15 AM – 5:00 PM
ROYAL REGISTRATION

POSTERS AVAILABLE FOR VIEWING

8:15 AM – 5:00 PM
GRAND A-D

VENDOR DISPLAYS

9:45 AM – 4:45 PM
GRAND A-D

SUNRISE SESSIONS

CIFOR NEEDS YOUR FEEDBACK

7:30 AM – 8:15 AM
GRAND E

Staying true to CIFOR’s “bottoms up approach,” the purpose of this session would be to solicit feedback from those in the field to identify any new barriers to rapid outbreak detection and response that CIFOR could address through new projects. Session objectives include: 1. Introduce CIFOR’s new strategic plan and structure. 2. Brainstorm ideas for new projects. 3. Gain feedback from end users on the revisions of the CIFOR Guidelines, Toolkit, and app.

Moderators: Kirk Smith (MN), Don Sharp (CDC)
INFORM 2017 CONFERENCE PROGRAM (DRAFT)

INFORMATION SHARING BETWEEN FDA AND STATE, LOCAL, TRIBAL, AND TERRITORIAL OFFICIALS: COMMISSIONING AND 20.88 AGREEMENTS 7:30 AM – 8:15 AM GRAND F

This session will describe how commissioning and 20.88 agreements allow FDA to share commercial confidential, pre-decisional and trade secret information with state, local, tribal, and territorial governments to support outbreak investigations and other food protection activities.

Moderators: Travis Goodman (FDA)

Speakers: Patrick Clouser (FDA), Laura DiPaola (FDA)

WGS OF NON-PULSENET ORGANISMS: EXPECTATIONS IN THE LAB, REPORTING ETC. 7:30 AM – 8:15 AM GRAND G

This session will provide the latest updates on various AMD programs and activities in addition to states sharing their experience with whole genome sequencing of non-PulseNet organisms. Session topics may include discussion on laboratory methods, establishing quality standards and development of pipelines for the analysis of non-PulseNet pathogens.

Moderators: Duncan MacCannell (CDC), Pamela O’Brien (HI)

INTEGRATING TRADITIONAL AND NEXT GENERATION METHODS FOR SALMONELLA SEROTYPING 7:30 AM – 8:15 AM GARDEN 1 & 2

Whole Genome Sequencing (WGS) is transforming the public health microbiology workflows for enteric pathogens. Currently, public health laboratories perform both traditional and molecular methods to serotype Salmonella isolates for surveillance and outbreak detection. The availability of open source tools for downstream analysis of genomic data are enabling laboratories to streamline traditional workflows into a single WGS workflow for bacterial reference identification, serotyping and virulence characterization. This roundtable will provide a forum for microbiologists and other interested scientists to discuss current issues related to the transition of traditional Salmonella serotyping methods to WGS and its utility in outbreak detection and surveillance.

Moderators: Patricia Fields (CDC)

EVALUATION OF FOOD AND ENVIRONMENTAL SAMPLES FROM NON-FEDERAL SOURCES: CHAIN OF CUSTODY, SAMPLE INTEGRITY AND OTHER CONSIDERATIONS 7:30 AM – 8:15 AM GARDEN 3

This session will provide the latest FSIS and FDA food and environmental sampling chain of custody techniques and describe Federal agency communications with State and other non-Federal laboratories testing food and environmental samples that may impact regulatory decision-making. Session objectives include: 1. Gain a better understanding of the techniques for and the importance of maintaining chain of custody of samples from sample collection, transit, and through laboratory analysis. 2. Learn how Federal and State agencies communicate when non-Federal labs test food and

Moderator: Bonnie Kissler (USDA-FSIS)
environmental samples during outbreak investigation. 3. Learn how FDA and FSIS evaluate laboratory results from non-Federal sources in order to make regulatory decisions.

**Speakers:** Louis Tate (USDA-FSIS), Stephanie Defibaugh-Chavez (USDA-FSIS), Terri McConnell (FDA-ORA), Nellie Dumas (New York State Department of Health, Wadsworth Center)

### NATIONAL SURVEILLANCE UPDATES 7:30 AM – 8:15 AM GARDEN 4

This session will cover major updates for national enterics surveillance. Topics of discussion will include informatics transformations, progress on data transmission improvements, the STEC Initiative, and plans for enhanced national surveillance for *Salmonella*, *Shigella*, and *Campylobacter*.

**Moderator:** Karen Wong (CDC), Jennifer Hunter (CDC), Michael Hughes (CDC), Erin Burdette (CDC)

**Day 1: 588-883-17, 6.5 P.A.C.E. contact hours**

At the conclusion of this day, the participant will be able to:

- Describe the changing food safety, epidemiologic and laboratory practices for enteric disease surveillance, outbreak detection and response
- Discuss lessons learned from Shiga toxin-producing *E. coli* outbreak investigations as it relates to foodborne infections and outbreak detection
- Identify key roles laboratory, epidemiology and environmental health play in outbreak investigations
- Describe how next generation sequencing technologies have transformed public health surveillance, outbreak detection and response
- Describe how culture-independent diagnostics tests are affecting current foodborne outbreak investigations and surveillance

### COMBINED SESSION I

#### WELCOME 8:15 AM – 8:30 AM ROYAL BALLROOM

Michael Beach, PhD
Deputy Division Director
Centers for Disease Control and Prevention

**THEN & NOW: THE CHANGING LANDSCAPE OF ENTERIC DISEASE SURVEILLANCE, OUTBREAK DETECTION & RESPONSE 8:30 AM – 10:00 AM ROYAL BALLROOM**

This session will examine changes in the landscape of enteric disease surveillance, outbreak detection, and response in the past 20 years. It will present a case study from the 1998 outbreak of listeriosis linked to Bil Mar Foods Ready-to-eat meats and discuss the Federal food safety agencies’ vision and goals for the future. This session will discuss new/ongoing challenges to food safety such as: changes in our food production and supply, including more imported foods; changes in the environment leading to food contamination; better detection of multistate outbreaks; new and emerging bacteria, toxins, and antibiotic resistance; changes in

**Moderators:** Ian Williams (CDC), RADM David Goldman (USDA-FSIS), Michael Beach (CDC)
consumer preferences and habits; changes in the tests that diagnose foodborne illness.

*Speakers:* Rob Tauxe (CDC), Brian Sauders (NY), Janell Kause (USDA-FSIS), Paul Kiecker (USDA-FSIS), Stic Harris (FDA)

**BREAK**

**COMBINED SESSION II**

**LESSONS LEARNED FROM SHIGA TOXIN-PRODUCING *E. coli* OUTBREAK LINKED TO FLOUR**

Flour has been a suspected vehicle for Shiga toxin-producing *E. coli* (STEC) infections since a 2009 multistate outbreak of STEC O157:H7 infections was linked to prepackaged cookie dough. Flour was never confirmed as the source of the cookie dough outbreak or in subsequent STEC outbreaks where flour was an exposure of interest. In 2016, however, a team of federal, state, and local officials investigated an outbreak of STEC O121 and O26 infections that was ultimately linked to contaminated flour from a single US producer. This complex investigation involved multiple partners working through numerous challenges to implicate flour as the source of the outbreak. There was a clear benefit from close collaboration with the affected industry. This session will include speakers addressing this and similar outbreaks from multiple perspectives, including CDC, FDA, state health officials, industry, and the Public Health Agency of Canada.

*Speakers:* Karen Neil (CDC), Nereida Corral (CO), Brooke Whitney (FDA), Scott Hood (General Mills), Laura Whitlock (CDC), Lorelee Tschetter (PHAC)

**Moderators:** Matthew Wise (CDC), Beth Melius (WA)

**LUNCH (Vendors Tables, Tech Expo, Program Tables, and Demos, Poster Session I)**

**LUNCH**

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<td>• System for Enteric Disease Response, Investigation, and Coordination (SEDRIC)</td>
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<td>• Council to Improve Foodborne Outbreak Response (CIFOR) and Council of State and Territorial Epidemiologists (CSTE) News and Updates</td>
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INFORM 2017 CONFERENCE PROGRAM (DRAFT)

Network (CORE)
- New York State CoE, OBNE, and EHS-Net
- United States Department of Agriculture - Food Safety Inspection Service (USDA-FSIS)
- CryptoNet
- Association of Public Health Laboratories (APHL)

POSTER SESSION I & MEET THE AUTHORS
12:30 PM – 1:00 PM GRAND A-D

NHGQ EPI INFO DATABASE DEMO AND Q&A
12:30 PM – 1:30 PM PACIFIC ROOM

• Demonstrate the features of the new national hypothesis-generating questionnaire (NHGQ) Epi-Info database
• Describe how ORPB will be utilizing this database to collect data during multistate cluster investigations via the web survey
• Demonstrate how local and state users can create local NHGQ (or modified NHGQ) databases for local outbreak investigations
• Answer questions from users about the national database and local/state implementation of the database

Facilitator: Rashida Hassan (CDC)

COMBINED SESSION III
NAVIGATING WHOLE GENOME SEQUENCING AND ITS UTILITY IN FOODBORNE SURVEILLANCE, OUTBREAK DETECTION, AND RESPONSE
1:30 PM – 3:00 PM ROYAL BALLROOM

This session will provide attendees with an overview of the implementation, coordination and use of whole genome sequencing to identify and respond to foodborne outbreaks. International, federal and state speakers will discuss implementation from an epidemiological and laboratory perspective. The US federal agencies’ approach using the Genomics in Food and Feed Safety (Gen-FS) working group to coordinate communications, standardize methods, and provide training will be presented. International partners will present approaches to WGS in food safety in their countries. This session will also highlight the use of whole genome sequencing by a state public health department for cluster detection and outbreak investigation as well as progress and limitations to implementing WGS in a state public health laboratory.

Speakers: Chris Braden (Gen FS), Carlota Medus (MN), Kiera Glasgow (Australia), Vishnu Chaturvedi (CA)

Moderators: John Dunn (TN), Heather Carleton (CDC), David Melka (FDA), Cesar Morales (USDA-FSIS)

BREAK
3:00 PM – 3:30 PM GRAND A-D

COMBINED SESSION IV
CULTURE-INDEPENDENT DIAGNOSTIC TESTS (CIDTS): CHANGING THE LANDSCAPE OF SURVEILLANCE

This session will provide a background on currently available CIDTs on the marketplace and national efforts addressing public health laboratory testing and their impact to current surveillance activities. Additionally, speakers from local and state health departments will provide examples on how CIDT test results are affecting current foodborne outbreak case investigations.

Speakers: Peter Gerner-Smidt (CDC), Ellyn Marder (CDC), Dave Boxrud (MN), Dana Eikmeier (MN), David Young (SC), Anna Carlson (NE), Ryan Jepson (IA), David Nicholas (NY)

AWARDS CEREMONY

OutbreakNet Bill Keene Award for Excellence in Epidemiology
John J. Guzewich Environmental Health Public Health Team Award
PulseStar Award for Outstanding Achievement in PulseNet
Kati Kelley Award for Exceptional Service to PulseNet

WEDNESDAY, NOVEMBER 8, 2017

REGISTRATION

POSTERS AVAILABLE FOR VIEWING

POSTER SESSION II AND MEET THE AUTHORS RECEPTION

SUNRISE SESSIONS PARTNERSHIPS FOR FOOD PROTECTION (PFP) FOOD EMERGENCY RESPONSE RESOURCES

This session will review key resources developed through the Partnership for Food Protection (PFP) for use in foodborne illness outbreaks and food-related investigations, including:

1. PFP Overview - The Partnership for Food Protection (PFP) is the structure used to bring together and coordinate the efforts of regulatory and public health officials to achieve a national Integrated Food Safety System (IFSS). The function of the PFP is to promote communication and integration between all jurisdictions and provide resources, risk-informed insight, and best practices to improve the system that partners can utilize to inform and enhance their work to protect public health; 2. Quick Start Food Emergency

Moderators: Priscilla Neves (FDA), Travis Goodman (FDA)
Response Job Aid – A tool to facilitate communication, coordination, and planning amongst programs and agencies early on in a food emergency event; 3. Best Practices for Use of FoodSHIELD during a Food/Feed Incident – Best practice guidance for using FoodSHIELD as a tool to enhance real-time communication amongst stakeholders during food emergencies; and 4. An overview of projects currently in progress including, the PFP Capacity Building and Mentorship Program for Rapid Response Teams (RRTs), and Improving Information Sharing.

Speakers: Priscilla Neves (FDA), Carrie Rigdon (MN Ag), and Travis Goodman (FDA)

FDA COORDINATED OUTBREAK RESPONSE AND EVALUATION NETWORK (CORE) UPDATES AND HIGHLIGHTS

7:30 AM – 8:15 AM  GARDEN 3

The purpose of this session will be to provide updates and highlights from FDA’s Coordinated Outbreak Response and Evaluation (CORE) Network. The main learning objective of this session is to familiarize the audience with specific facets of outbreak investigations coordinated by CORE and to share summaries of high impact post-response activities related to past outbreaks. Specific topic areas will include: firm calls (what to expect and what to share); factors that FDA considers regarding traceback and update on informational traceback process and applications; and an overview of CORE post-response examples of post-response initiatives for high profile outbreaks.

Speakers: Karen Blickenstaff (FDA/CORE), CDR Kari Irvin (FDA/CORE), Angela Fields (FDA/CORE), Diane Gubernot (FDA/CORE)

Moderators: Jennifer Beal (FDA), Susan Lance (FDA), Lauren Shade (FDA)

CURRENT ISSUES IN ANTIMICROBIAL RESISTANCE SURVEILLANCE AND IMPACT ON OUTBREAK RESPONSE

7:30 AM – 8:15 AM  GARDEN 4

This sunrise session will provide a forum to discuss current issues in antimicrobial resistance surveillance for outbreaks. Topics will include the use of resistance data in outbreak investigations (including predicted resistance from whole genome sequencing), and the development of a Scary Isolate Response Initiative to guide public health response to patients infected with pathogens that have very concerning resistance patterns (e.g., colistin resistance mediated by mcr-1 or azithromycin resistance in Salmonella). Discussants will share examples of success stories and challenges in outbreak response using NARMS surveillance data. Representatives from partner organizations will be invited to discuss strategies to improve resistance surveillance and to optimize partner involvement and outcomes.

Discussants: Meseret Birhane (CDC), Louise Francois Watkins (CDC), Cindy Friedman (CDC)
ANALYTICAL TOOLS FOR WGS: BIOINFORMATIC PIPELINES, CLOUD COMPUTING, AND THE DARK ARTS AS PRACTICED BY YOUR STATE PUBLIC HEALTH BIOINFORMATICIANS (STAPH-B)  
7:30 AM – 8:15 AM  GRAND E  
This session will include a panel of state public health bioinformaticians that are currently utilizing NGS and bioinformatics for microbial identification and outbreak detection. This session will highlight the tools, workflows, and resources available to state public health laboratories and how to implement them effectively.  

Panelists: Joel Sevinsky (CO), Dave Boxrud (MN), Kevin Libuit (VA), Kelly Oakeson (UT)  

Moderator: Joel Sevinsky (CO)

UPDATES ON EFFORTS FOR CONTROLLING LISTERIA MONOCYTOGENES (LM) IN RETAIL DELICATESSENS  
7:30 AM – 8:15 AM  TERRACE ROOM  
Efforts to enhance knowledge, skills, and abilities to control Listeria monocytogenes (Lm) in Retail Delicatessens are ongoing. Learn the most up-to-date information on regulatory and industry efforts aimed at Lm control in retail delicatessens.  

Speakers:  
FSIS Updates on Lm Control in Retail Delicatessens, Kristin Holt (USDA-FSIS)  

Title TBD, State environmental health, Larry Ramdin (Salem Board of Health)  

Title TBD, John Burnett (Purdue University)  

Title TBD, Industry (Grocery store chain speaker TBD)  

Moderator: Michele DiMaggio (Contra Costa County, CA)

BREAK  
8:15 AM – 8:30 AM  GRAND A-D

CONCURRENT SESSIONS OVERVIEW  

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<td>Changing Landscape of Norovirus</td>
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CONCURRENT SESSIONS I

588-884-17, 1.0 P.A.C.E contact hour  
At the conclusion of this session, the participant will be able to:  
• Describe new laboratory methods for norovirus and epidemiological trends in restaurant associated norovirus outbreaks  

8:30 AM – 9:30 AM  GARDEN 1 & 2
THE CHANGING LANDSCAPE OF NOROVIRUS: FROM DETECTION TO SURVEILLANCE

This session will describe recent advances in genotyping and in vitro culture of norovirus, describe workflow processes and methods for detection of norovirus in foods, and describe an exemplary outbreak investigation that utilized new norovirus diagnostic methods.

Speakers: Jan Vinje (CDC), Toni Morales (FDA), Amy Saupe (MN)

588-885-17, 1.0 P.A.C.E contact hour

At the conclusion of this session, the participant will be able to:

- Describe methods for integration of epidemiological and whole genome sequencing data for surveillance and outbreak detection of foodborne diseases

WGS AND EPI INTEGRATION PART I

During this session, presenters will discuss ways WGS and epidemiological data is integrated in their jurisdiction. The presenters will also discuss how epidemiological data or lack thereof affect the interpretation of the WGS data. Case studies will be presented.

Rashida Hassan (CDC)

Implementation to Integration: DCLS’s Phased Approach to Sharing Molecular Subtyping Data with Epidemiologists, Lauren Turner (VA DCLS)

EDLB or ORPB Representatives (CDC)

588-886-17, 1.0 P.A.C.E. contact hour

At the conclusion of this session, the participant will be able to:

- Identify strategies for conducting investigations with partners from different disciplines and agencies for coordinated outbreak response

DR. STRANGEVEHICLE: HOW I LEARNED TO STOP WORRYING AND LOVE THE UNSOLVED OUTBREAKS

This session will describe recent unsolved outbreaks and how partners can collaborate to find new vehicles, handle difficult situations with multiple agencies, use technology to assist investigations, and have partners work together for solutions and improvements in food safety.

Speakers: Lyndsay Bottichio (CDC), Amanda Conrad (CDC), Brooke Whitney (FDA), Vasuda Reddy (NYC), D’Ann Williams (MD), Quyen Phan (CT), Christina Turner (CT)

Moderators: Jennifer Beal (FDA), Lyndsay Bottichio (CDC), Zachary McCormic (NH)
IN THE HEAT OF AN OUTBREAK: DIFFERENT PERSPECTIVES ON REGULATORY COMMUNICATION  8:30 AM – 9:30 AM  TERRACE ROOM

The goal of the session is to reach shared understanding of different entities’ needs and limitations around communication during an outbreak. This session will explore recent outbreaks as case studies to demonstrate how to incorporate lessons learned from one outbreak to another, and how that affects outbreak outcomes. USDA-FSIS will discuss the Salmonella I 4,[5],12:i:- outbreaks of 2015 and 2016, associated with whole roasting pigs, and the session will foster discussion about the timeline of communications. FDA will discuss the frozen strawberries and frozen tuna hepatitis A investigations, and the SoyNut Butter E. coli investigations as instances where communications were either successful or challenging, and discuss innovative ways to work around communication challenges that the FDA regularly faces as a regulatory agency.

Speakers: Aaron Lavallee (USDA-FSIS), Scott Lindquist (WA), Siobhan DeLancey (FDA)

Moderator: Karen Becker (USDA-FSIS)

BREAK  9:30 AM – 9:45 AM  GRAND A-D

CONCURRENT SESSIONS II

LINKING ENVIRONMENTAL AND EPIDEMIOLOGICAL DATA ON RESTAURANT-RELATED NOROVIRUS OUTBREAKS  9:45 AM – 10:45 AM  GARDEN 1 & 2

CDC content experts will discuss how recent data from norovirus outbreak epidemiology and environmental investigations can inform norovirus outbreak investigation and prevention.

Speakers: Aron Hall (CDC), Kristi Scott (CDC), Amy Freeland (CDC)

Moderator: Laura Brown (CDC)

588-889-17, 1.0 P.A.C.E. contact hour
At the conclusion of this session, the participant will be able to:
• Describe analytical methods and approaches for whole genome sequence-based data

**WGS AND EPI INTEGRATION PART II: FINDING A NEEDLE IN A HAYSTACK – USING WGS TO IDENTIFY CLUSTERS WITH COMMON PFGE PATTERNS**

9:45 AM – 10:45 AM  
GARDEN 3

During this session, presenters will discuss how WGS and analysis is conducted in their jurisdiction. Case studies will be presented to exhibit how WGS identified outbreaks that would not have been detected using PFGE alone. We will also describe the use of WGS to determine next steps in the outbreak investigation.

*Speakers: Lisha Constantine-Renna (TN), Hope Dishman (GA), Katherine Marshall (CDC)*

588-890-17, 1.0 P.A.C.E. contact hour

At the conclusion of this session, the participant will be able to:
• Describe the use of old and new tools for the investigation of foodborne outbreaks

**EPIDEMIOLOGIC METHODS: NEW AND OLD TOOLS TO INVESTIGATE FOODBORNE OUTBREAKS**

9:45 AM – 10:45 AM  
GARDEN 4

Methods commonly used for formal analytic studies, such as community based case-control studies or using credit card receipts to identify restaurant patrons, are increasingly difficult to conduct. This session will focus on the use of innovative epidemiologic methods to determine the source of foodborne and other enteric disease outbreaks. Federal, state, and local investigators will present brief case studies on experiences using some of these methods and the benefits and challenges of using such methods. Session objectives include: novel methods to recruit controls or generate exposure comparison data, using the binomial comparison of proportions for hypothesis generation, venue/event-based investigations, options for case-finding or finding controls in restaurant and other outbreaks, and best approaches to ingredient-specific analytic studies.

*Speakers: Leslee Warren (Tri-County HD, CO), Cindy Burnett (UT), Josh Rounds (MN), Peter Ruestow (Chicago)*

588-891-17, 1.0 P.A.C.E. contact hour

At the conclusion of this session, the participant will be able to:
• Discuss the importance of a One Health approach to investigating outbreaks involving human, animal and environmental factors
**ONE HEALTH APPROACH TO FARM TO TABLE: IMPORTANCE OF ON-FARM INVESTIGATIONS DURING OUTBREAKS**

<table>
<thead>
<tr>
<th>9:45 AM – 10:45 AM</th>
<th>TERRACE ROOM</th>
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<tr>
<td>This concurrent session has three primary aims: 1. to raise awareness of the importance of a One Health approach to outbreak investigations including human, animal and environmental elements; 2. to share strategies for conducting joint investigations with partners in the agriculture sector; and 3. to foster discussion around challenges presented by on-farm investigations.</td>
<td>Moderators: Megin Nichols (CDC), Alice Green (USDA-FSIS)</td>
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*Speakers: Lauren Stevenson (CDC), Misha Robyn (CDC), Donald Sockeyt (WI Veterinary Diagnostic Laboratory), Jason Lombard (APHIS)*

**BREAK**

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<th>10:45 AM – 11:00 AM</th>
<th>GRAND A-D</th>
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**CONCURRENT SESSIONS III**

**588-892-17, 1.0 P.A.C.E. contact hours**

At the conclusion of this session, the participant will be able to:

- Describe methods used to investigate foodborne illnesses caused by antimicrobial resistance bacteria

**DEVELOPING COLLABORATION TO ENHANCE INVESTIGATION OF ANTIMICROBIAL RESISTANCE IN FOOD PATHOGEN OF ANIMAL ORIGIN INVOLVED IN OUTBREAKS**

<table>
<thead>
<tr>
<th>11:00 AM – 12:00 PM</th>
<th>GARDEN 1 &amp; 2</th>
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<tr>
<td>This session will provide examples of how state and federal partners work together to investigate foodborne outbreaks caused by antimicrobial resistant bacteria.</td>
<td>Moderators: Nkuchia M’ikanatha (PA), Heather Tate (FDA), Louise Francois Watkins (CDC), Alice Green (USDA-FSIS)</td>
</tr>
</tbody>
</table>

*Speakers: Vivian Leung (CT), Samir Hanna (TN), Kelly Kline (PA)*

**588-893-17, 1.0 P.A.C.E. contact hours**

At the conclusion of this session, the participant will be able to:

- Discuss best practices for ensuring quality whole genome sequencing data for PulseNet

**WHOLE GENOME MLST DATABASES**

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<th>11:00 AM – 12:00 PM</th>
<th>GARDEN 3</th>
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<tr>
<td>During this session, speakers will discuss how wgMLST schemes have been developed and how they are being validated, interpreting results and defining thresholds for relatedness of strains for PulseNet surveillance. Also, speakers will highlight the genotyper tools being developed for use in BioNumerics, updates on WGS nomenclature development, and the status of wgMLST for non-PulseNet organisms.</td>
<td>Moderators: Steven Stroika (CDC)</td>
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</table>
INFORM 2017 CONFERENCE PROGRAM (DRAFT)

Speakers: Heather Carleton (CDC), Rebecca Lindsey (CDC), Hannes Pouseele (Applied-Maths)

RETROSPECTIVE OUTBREAK INVESTIGATIONS: LEVERAGING FOOD AND ENVIRONMENTAL DATA TO PROTECT PUBLIC HEALTH 11:00 AM – 12:00 PM GARDEN 4

This session will revisit the topic of Retrospective Outbreak Investigations (first introduced at the 2015 INFORM conference), which begin when a product or environmental isolate is linked by WGS to clinical isolates. The purpose of this session is to build upon that introduction and give participants an update on the status of this approach using a case study involving a smoked fish manufacturer in NY. The session will then conclude with a brief overview of current activities at FDA and CDC relative to standardizing procedures for evaluating these types of clusters, prioritizing which ones to investigate, and describing the unique challenges and opportunities for this approach.

Speakers: Matthew Wise (CDC), Amanda Conrad (CDC), Jennifer Beal (FDA), Leslie Hintz (FDA)

Moderators: Susan Lance (FDA), Ian Williams (CDC)

LATE BREAKERS 11:00 AM – 12:00 PM TERRACE ROOM

This late breaker session will highlight several recent outbreaks and investigations. In this dynamic “rapid-fire” session each author will give a 5-minute oral presentation followed by 5 minutes for questions and discussion.

Speakers: TBD

Moderator: Michael Jhung (CDC), Justin Henderson (MI)

LUNCH LUNCH (ON YOUR OWN) 12:00 PM – 1:30 PM

NOROSTAT MEETING 12:00 PM – 1:30 PM PACIFIC ROOM

INDIVIDUAL CONFERENCE TRACKS

PULSENET

Day 2 Afternoon - 588-895-17, 3.5 P.A.C.E contact hours
At the end of this afternoon, the participant will be able to:
• Describe lessons learned for transitioning laboratory workflows for the integration of whole genome sequencing within the Pulsenet laboratories
• Discuss best practices for tracking and integrating culture independent diagnostic test specimens within public health laboratory workflows

1:30 PM – 3:00 PM GRAND EFG
PULSENET SESSION 1
TRANSITIONING WORKFLOWS FOR PULSENET:
PERSPECTIVES FROM THE PULSENET LABORATORIES

<table>
<thead>
<tr>
<th>Topic</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>CDC’s Experience with CLIA Validation of WGS wet-lab and analytical tools</td>
<td>Rebecca Lindsey (CDC)</td>
</tr>
<tr>
<td>Lessons Learned: California’s Experience with CLIA Validation</td>
<td>Vishnu Chaturvedi (CDC)</td>
</tr>
<tr>
<td>Lessons Learned: Integrating Automated Workflows for PulseNet</td>
<td>Roxy Meek (WA)</td>
</tr>
<tr>
<td>Lessons Learned: Validation of SeqSero and Establishing a WGS Workflow for Salmonella Serotyping</td>
<td>Jisun Haan (MN)</td>
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</tbody>
</table>

Moderators: Julia Wolfe (CAOC), Karim George (KY), Molly Freeman (CDC)

Discussion & Q/A
3:00 PM – 3:15 PM

BREAK
3:15 PM – 3:45 PM

PANEL DISCUSSION 1
3:45 PM – 4:40 PM

Tracking and Data Management of WGS and CIDTs: Sharing Best Practices

Panelists will lead a discussion of challenges and best practices that have emerged as WGS and CIDTs are integrated into public health lab workflows.

Panelists: Angie Taylor (MN), Ryan Jepson (IA), Bill Wolfgang (NY)

Moderators: Morgan Schroeder (CDC), Jeannette Dill (TN)

PANEL DISCUSSION 2
4:45 PM – 5:30 PM

Addressing Quality & Contamination: From the Bench to Analysis

Panelists will discuss the use of bioinformatic tools to examine sequence quality, laboratory mitigation of sequence contamination, and CLIA validation of WGS methods.

Using Bioinformatics Tools to Examine Sequence Quality, Heather Carleton (CDC) and Joel Sevinsky (CO)

Laboratory Mitigation of Sequence Contamination, Lauren Turner (VA)

WGS CLIA Validation, Karim Morey (OR)

Moderators: Lavin Joseph (CDC), Steve Dietrich (MI)
**OUTBREAKNET AND ENVIRONMENTAL HEALTH**

<table>
<thead>
<tr>
<th>Speakers from local, state, and national public health agencies across multiple disciplines will discuss novel enteric outbreak investigations, surveillance activities, and new tech innovations. Presentations will be followed by an opportunity for colleagues to ask questions and discuss presentation findings.</th>
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</thead>
<tbody>
<tr>
<td><strong>NOTES FROM THE FIELD PART I</strong></td>
</tr>
<tr>
<td><strong>Food Source Information-A Food Production Wiki for Public Health Professionals</strong>, Elaine Scallan (CO SPH/CoE)</td>
</tr>
<tr>
<td><strong>Don’t Have a Cow, Man: Calf-Associated Outbreaks of Cryptosporidiosis in New Hampshire</strong>, Zachary McCormic (NH)</td>
</tr>
<tr>
<td><strong>Salmonella Javiana Infections Linked to a Restaurant in Maricopa County, Arizona – 2016</strong>, Heather Venkat (AZ)</td>
</tr>
<tr>
<td><strong>Vibrio vulnificus Wound Infection After Handling Tilapia Purchased From a Live Freshwater Fish Tank</strong>, Laurie Stewart (WA)</td>
</tr>
<tr>
<td><strong>A Rapid One Week Response: Salmonella Braenderup in Potato Salad</strong>, Melanie Harris (IA)</td>
</tr>
<tr>
<td><strong>Shiga Toxin-Producing Escherichia coli O157:H7 Infections After Attendance at a Cider Festival - Kansas, 2016</strong>, Daniel Neises (KS)</td>
</tr>
<tr>
<td><strong>Outbreak of Salmonella Enteritidis Associated with a Restaurant in Kentucky, 2016</strong>, Carrell Rush (KY)</td>
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</tbody>
</table>

**BREAK**

| **USE OF SHOPPER/LOYALTY CARD AND OTHER PURCHASE DATA RESOURCES TO ASSIST WITH OUTBREAK INVESTIGATIONS** | **4:00 PM – 4:45 PM** | **ROYAL BALLROOM** |
| Shopper/loyalty card data and other purchase data resources are increasingly being used during foodborne outbreaks to assist with hypothesis generation and product traceback of suspect food vehicles. After this session, the participant will be able gain an understanding of how this information is used during outbreak investigations in addition to available resources. | Moderators: Bonnie Kissler (USDA-FSIS), David Nicholas (NYSDOH) |  |

*Speakers: Julie Schlegel (NCAG), Christine Applewhite (CT), Greg Leos (TX)*
IMPLEMENTING STATEWIDE FOODBORNE ILLNESS COMPLAINT SYSTEMS: SUCCESSES AND CHALLENGES

4:45 – 5:30 PM
ROYAL BALLROOM

During this session, speakers will describe various statewide foodborne illness complaint systems, describe challenges and successes in implementing a statewide foodborne illness complaint system, discuss challenges/successes when promoting a foodborne illness complaint system, and review steps taken when evaluating a foodborne illness complaint system.

Speakers: Jane Yackley (TN), Danny Ripley (Nashville/Davidson County Metro HD), Kenny Davis (UT), Daniel Neises (KS)

Moderators: Katie Garman (TN), Amy Robbins (NYSDOH)

OUTBREAKNET AND ENVIRONMENTAL HEALTH

ADJOURN

5:30 PM

POSTER SESSION II & MEET THE AUTHORS

5:45 PM – 6:15 PM
GRAND A-D

RECEPTION
5:45 PM – 7:00 PM
GRAND A-D

THURSDAY, NOVEMBER 9, 2017

REGISTRATION
8:00 AM – 12:30 PM
ROYAL REGISTRATION

POSTERS
8:00 AM – 12:30 PM
GRAND A-D

Day 3: 588-896-17, 3.5 P.A.C.E. contract hours

At the conclusion of this day, the participant will be able to:

- Describe current PulseNet USA and International activities network participants are developing for implementation of whole genome sequencing within PulseNet
- Describe the integration of regulatory and clinical data within the PulseNet Network
- Describe analytic tools and practices for sharing data at the local and state levels
- Describe current status of CDC metagenomics and isolate recovery projects
- Discuss novel approaches for culture-independent identification and characterization methods from clinical and environmental samples

INDIVIDUAL CONFERENCE TRACKS

PULSENET
## PULSENET INNOVATION AWARD

### 8:00 AM – 8:15 AM  GRAND EFG

### PULSENET SESSION 2:
PULSENET USA & INTERNATIONAL ROADMAP: TRANSITIONING TO WGS SURVEILLANCE AND OUTBREAK DETECTION  

### 8:15 AM – 9:15 AM  GRAND EFG

PulseNet International & USA Steering Committee Updates, Peter Gerner-Smidt, CDC

Integration of Regulatory and Clinical Data: Perspectives from FDA and USDA-FSIS, Eric Stevens (FDA), Glen Tillman (USDA-FSIS)

Perspectives from a Food Regulatory Laboratory: FLAG’s Experience with WGS Implementation, Serena Giovannazzi (FLAG)

### STATE SOLUTIONS FOR ANALYSIS AND REPORTING: PERSPECTIVES FROM THE STATE PUBLIC HEALTH BIOINFORMATICIANS (STAPH-B) WORKGROUP  

### 9:15 AM – 10:15 AM  GRAND EFG

The emergence of next generation sequencing (NGS) is revolutionizing microbial identification and outbreak detection, both nationally and at the state public health level. Although implementing NGS in the state public health laboratory is a significant achievement, the greater challenge lies in the analysis and reporting of the results. This session will describe three separate state level solutions for embracing and incorporating NGS analysis into standard laboratory practice. Examples will include when to use both reference-based and reference-free bioinformatic pipelines, how to leverage cloud based computing resources at the state level, and effective communication strategies between the laboratory and epidemiologists.

Bioinformatic Analyses of Whole-Genome Sequence Data in a Public Health Laboratory, Kelly Oakeson (UT)

Cloud Solutions for State NGS Bioinformatics and Storage, Joel Sevinsky (CO)

NGS Communication between Laboratories and Epidemiologists, Angela J. Taylor (MN)

### BREAK  

### 10:15 AM – 10:45 AM  GRAND A-D

### PULSENET SESSION 3
CURRENT LABORATORY-BASED STRATEGIES IN ADDRESSING CIDTS  

### 10:45 AM – 12:15 PM  GRAND EFG

CIDT challenges and changes in Colorado, Emily Travanty (CO)

CIDT: An overachieving GI panel, Jeannette Dill (TN)
### PanGIA: Culture-Independent Identification and Characterization of Infectious Agents Directly from Clinical and Environmental Sources, Jonathan Jacobs (MRI Global)

**Development of Sequencing Methods for Direct-from-Specimen Surveillance and Subtyping, Jo Williams-Newkirk (CDC)**

<table>
<thead>
<tr>
<th>CLOSING REMARKS</th>
<th>12:15 PM – 12:30 PM</th>
<th>GRAND EFG</th>
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### ENVIRONMENTAL HEALTH

#### ENVIRONMENTAL ASSESSMENTS AND ROOT CAUSE 8:30 AM – 10:30 AM TERRACE ROOM, S. TOWER

This session will explore various approaches to environmental assessments and root cause analysis when problems arise, such as harborage, contamination events, or foodborne illness is connected to a product or facility. Speakers will also describe the impact and influences of people, economics, business culture, and other considerations on an investigation.

Speakers: Dr. Karin Hoelzer (Pew Charitable Trust), Karen Becker (USDA-FSIS), Laura Brown (CDC), Danny Ripley (Metro Public Health Department, Nashville, TN)

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<th>BREAK</th>
<th>10:30 AM – 11:00 AM</th>
<th>TERRACE ROOM, S. TOWER</th>
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#### DEMYSTIFYING THE LAB 11:00 AM – 12:30 PM TERRACE ROOM, S. TOWER

Collecting specimens, food, or environmental samples is more than what it seems. During this session, the wonders of the laboratory will be revealed when you hear how samples are received, processed, interpreted and reported. You will also hear how EH professionals plan for sampling and use field samples to help solve outbreaks. Finally, this session will feature new tools for detecting pathogens on different surfaces that would be useful during outbreak investigations. Attending this session will provide the opportunity to clarify your questions about the hows and whys of sampling, what happens in a laboratory, and the best tools for the job.

Speakers: Jan Vinje (CDC), Maria Ishida (NY), Melanie Harris (IA)

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## OUTBREAKNET

### NOTES FROM THE FIELD PART II

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<tr>
<td>Speakers from local, state, and national public health agencies across multiple disciplines will discuss novel enteric outbreak investigations, surveillance activities, and new tech innovations. Presentations will be followed by an opportunity for colleagues to ask questions and discuss presentation findings.</td>
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<tr>
<td>Moderators: William Lanier (USDA-FSIS)</td>
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</table>

- **Multistate Outbreak of E. coli O157:H7 Infections Linked to Soy Nut Butter - United States, 2017,** Rashida Hassan (CDC)
- **International collaboration to identify an unusual source of illness: Salmonella Chailey outbreak associated with coconut, 2017,** Marsha Taylor (British Columbia, CAN)
- **Incubation Period for Outbreak-Associated, Non-Typhoidal Salmonellosis Cases, Minnesota, 2000-2015,** Dana Eikmeier (MN)
- **Application of Whole Genome Sequencing to Support Foodborne Disease Outbreak Detection and Investigations in Connecticut,** Quyen Phan (CT)
- **Shigella Infections with Decreased Susceptibility to Azithromycin and Association with Bacterial Sexually Transmitted Infections in New York City, 2014-2016,** Katelynn Devinney (NYC)
- **Using xTAG® Gastrointestinal Pathogen Panel (GPP) Results in Exclusion of Enteric Disease Cases from High-Risk Settings,** Amanda Shoemate (OK)
- **Use of a REDCap Database for Management and Tracking of the Tennessee FoodCORE Interview Team’s Contact Attempts and Interview Outcomes,** Stephanie Cavallo (TN)
- **The relationship between food access and reported Salmonella and Campylobacter cases in Pennsylvania: A spatial comparison of Urban and Rural Areas,** Erica Smith (Drexel University)

### BREAK

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<tr>
<td>Moderators: Colin Basler (CDC), Colin Schwensohn (CDC), Kerri Brown (CO)</td>
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### CLUSTER VS OUTBREAK

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<tr>
<td>This session will provide participants with a better understanding of how clusters and outbreaks of illness are defined and categorized at both the national and state level. Both single state and multi-state investigations will be discussed. This session will include speakers from state public health departments as well as the CDC.</td>
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<tr>
<td>Moderators: Colin Basler (CDC), Colin Schwensohn (CDC), Kerri Brown (CO)</td>
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**Speakers:** Matthew Wise (CDC), Samuel Crowe (CDC), Amy Saupe (MN), Mackenzie Tewell (AZ)
### PROTECTING PUBLIC HEALTH: DECIDING WHEN TO COMMUNICATE ABOUT AN OUTBREAK

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<th>Time</th>
<th>Event Description</th>
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<tr>
<td>11:15 AM – 12:00 PM</td>
<td>A consumer warning issued at the right time can save lives. Close collaboration is essential when creating timely and clear messages for the public during outbreaks. In this interactive dialogue session, a panel of communication and media experts will discuss making decisions and crafting messages for the public during outbreaks. Participants will also share their own successes and challenges deciding when to communicate and what to say, and pose questions to the panelists.</td>
<td>ROYAL BALLROOM</td>
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</tbody>
</table>

**Panelists:** Brittany Behm (CDC), Natasha Dowell (CDC), Aaron Lavallee (USDA-FSIS), Siobhan DeLancey (FDA)

**Moderators:** Laura Whitlock (CDC)

### CLOSING REMARKS

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<td>ROYAL BALLROOM</td>
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### ADJOURN

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