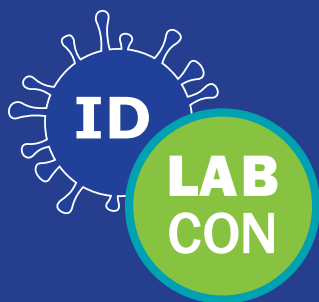


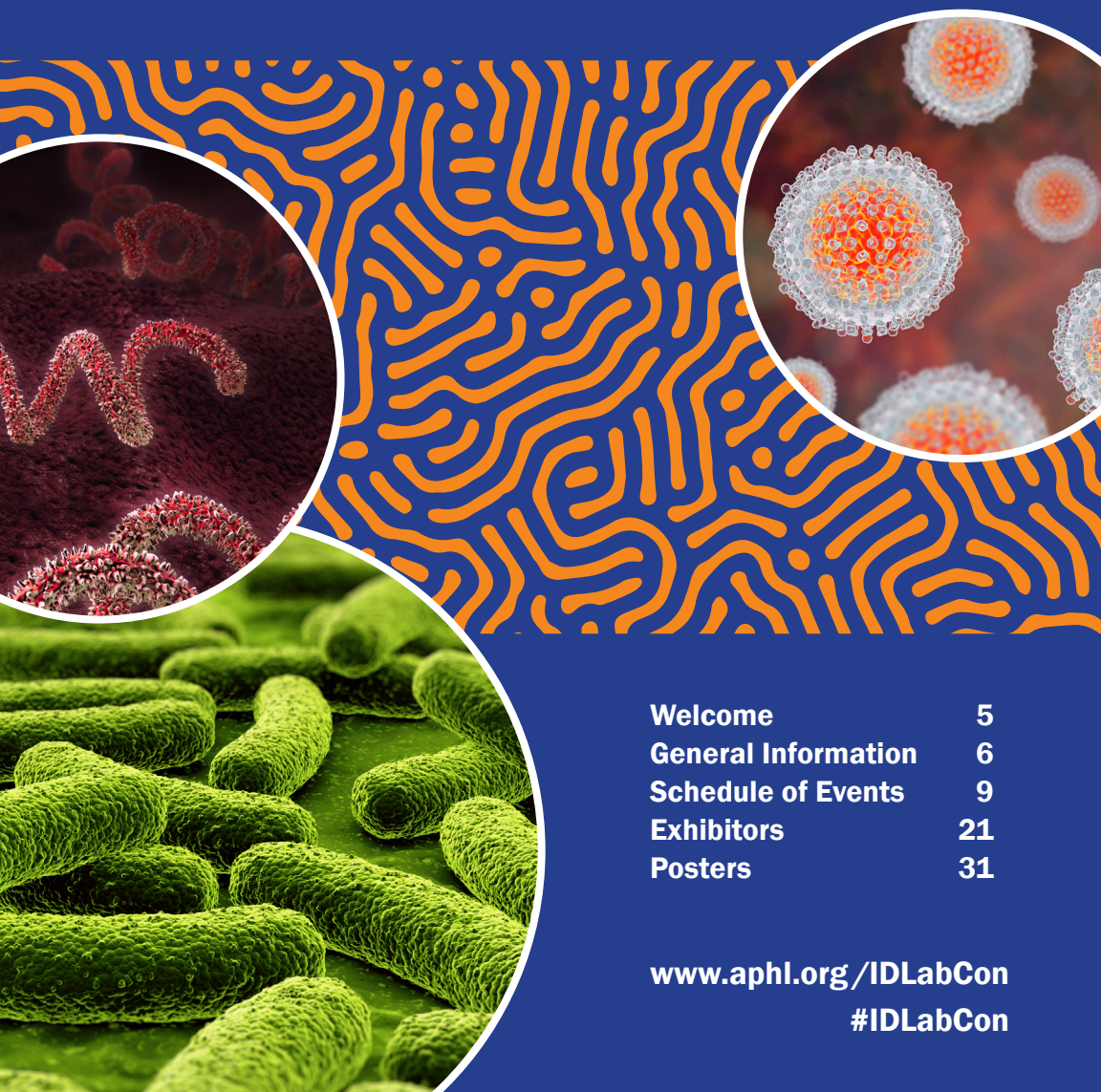


March 13-15, 2023

Westin Peachtree
Plaza Hotel

Atlanta, GA

Final Program



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Exhibitors	21
Posters	31

www.aphl.org/IDLabCon
#IDLabCon

Schedule at a Glance

2019 ID Week Program Timeline

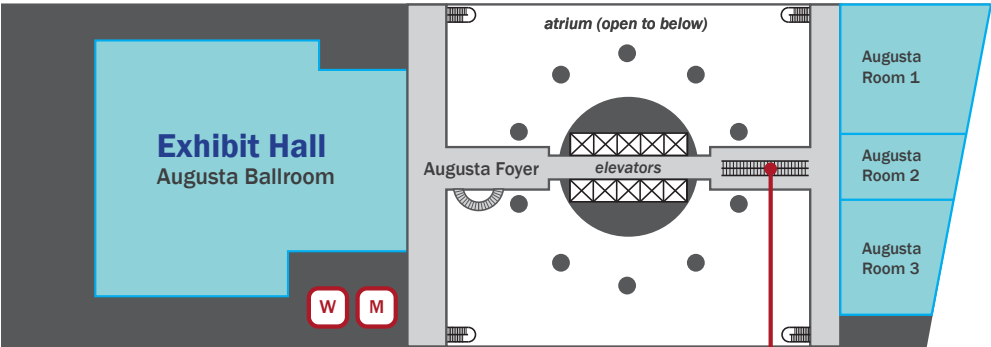
Day	Time	Activity
Sunday, March 12	6:30 am - 7:00 am	Preconference Workshops 9:00 am - 3:30 pm
	7:00 am - 7:30 am	Registration Open 4:00 pm - 7:00 pm
Monday, March 13	7:30 am - 8:00 am	Coffee Break
	8:00 am - 8:30 am	Welcome and Opening Session Keynote 8:30 am - 10:00 am
	8:30 am - 9:00 am	Break in Exhibit Hall
	9:00 am - 9:30 am	The Importance of Lab Partnerships in Pandemics 10:30 am - 12:30 pm
	9:30 am - 10:00 am	Lunch on your own
	10:00 am - 10:30 am	Concurrent Breakout Sessions 1:30 pm - 3:00 pm
	10:30 am - 11:00 am	Break in Exhibit Hall
	11:00 am - 11:30 am	This Week in Virology Presents from ID LabCon 3:30 pm - 5:00 pm
	11:30 am - 12:00 pm	Reception 5:00 pm - 6:30 pm
	12:00 pm - 12:30 pm	
Tuesday, March 14	12:30 pm - 1:00 pm	Registration Open 6:30 am - 5:00 pm
	1:00 pm - 1:30 pm	Partners in Technology
	1:30 pm - 2:00 pm	Continental Breakfast
	2:00 pm - 2:30 pm	Diving Into Late Breaking Infectious Disease Issues 8:30 am - 10:00 am
	2:30 pm - 3:00 pm	Break in Exhibit Hall
	3:00 pm - 3:30 pm	Metagenomic Approaches 10:30 am - 12:00 pm
	3:30 pm - 4:00 pm	Lunch in the Exhibit Hall
	4:00 pm - 4:30 pm	Concurrent Breakout Sessions 1:00 pm - 2:30 pm
	4:30 pm - 5:00 pm	Break/Raffle in the Exhibit Hall
	5:00 pm - 5:30 pm	Wastewater Surveillance: Building Systems That Lead to Actionable Data 3:00 pm - 5:00 pm
Wednesday, March 15	5:30 pm - 6:00 pm	Registration Open 7:00 am - 12:30 pm
	6:00 pm - 6:30 pm	Coffee Break
	6:30 pm - 7:00 pm	A Review of This Year's Literature 8:30 am - 10:00 am
	7:00 pm - 7:30 pm	Break
	7:30 pm - 8:00 pm	Responding to Emerging Infectious Diseases 10:30 am - 12:30 pm

Special off-site event!
Tuesday 7:00 pm
see page 17 for details

THE STORY COLLIDER
STORIES ABOUT SCIENCE

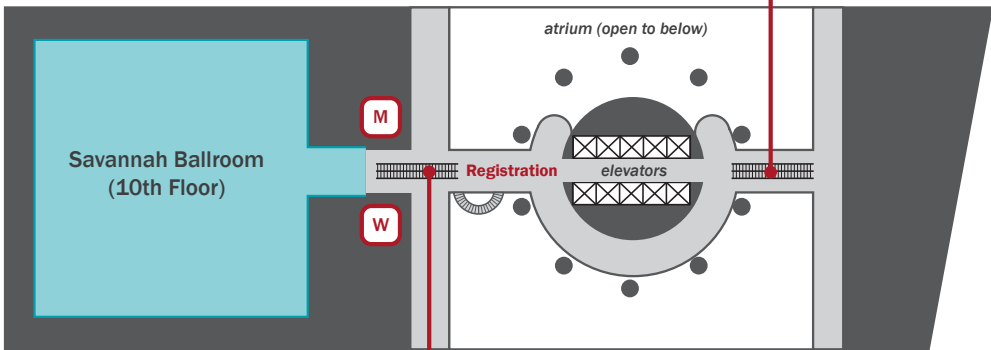
Hotel Floor Plans

Augusta Level, 7th Level



Up/Down Escalators

Savannah Level, 9th Floor



Up/Down Escalators
to Savannah Ballroom
on 10th Floor

Association of Public Health Laboratories



Vision: A healthier world through quality laboratory systems

Mission: Shape national and global health outcomes by promoting the value and contributions of public health laboratories and continuously improving the public health laboratory system and practice.

The Association of Public Health Laboratories (APHL) is a non-profit 501(c)(3) organization representing governmental laboratories that monitor and detect public health threats, including emerging infectious disease surveillance, detection of metabolic and genetic conditions in newborns, water contamination identification and foodborne outbreak detection. APHL's members are state, local, county and city public health laboratories, state and local environmental health laboratories, state agricultural laboratories, corporations, individual and student members with an interest in public health laboratory issues, and organizations that share common goals with APHL.

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APHL ID Lab Con 2023 Scientific Planning Committee

Co-Chairs:

Megan Crumpler, PhD, HCLD(ABB), Orange County Public Health Laboratory

Marie-Claire Rowlinson, PhD, D(ABMM) Wadsworth Center

Members:

Marc Couturier, PhD, D(ABMM), ARUP Laboratories

Kelly Hoon, PhD, Illumina

Kara Levinson, PhD, D(ABMM), Tennessee Public Health Laboratory

Michael Pentella, PhD, D(ABMM), Iowa State Hygienic Laboratory

Ryan Relich, PhD, D(ABMM), MLS(ASCP), Indiana University Health and Indiana University School of Medicine

Patricia Simner, PhD, D(ABMM), Johns Hopkins University School of Medicine

Kirsten St. George, PhD, F(AAM) Wadsworth Center

Sara Vetter, PhD, D(ABMM), Minnesota Department of Health

Kelly Wroblewski, MPH, Association of Public Health Laboratories

Welcome to ID Lab Con 2023!

Welcome to ID Lab Con 2023, the Association of Public Health Laboratories' very first infectious disease-focused conference! We are happy to welcome you to Atlanta, GA for the inaugural event, after the originally planned event was canceled in 2020. To say a lot has happened in infectious diseases since then is an understatement and this conference is an opportunity for clinical, public health and commercial laboratories and industry colleagues to meet in person and discuss pertinent topics in infectious diseases.

We have an exciting program lined up over 3 and a half days that includes four preconference workshops prior to the meeting. On the first day of the meeting, Centers for Disease Control and Prevention, Director of the Division of HIV Prevention, Dr. Demetre Daskalakis will open the conference as our keynote speaker. Other highlights throughout the conference include the popular podcast This Week In Virology (TWiV) coming to us Live! from the conference with TWiV hosts, Drs. Vincent Racaniello and Kathy Spindler, and featuring Drs. Ryan Relich, Kirsten St. George and Megan Crumpler. The conference will cover a range of topics from Antimicrobial Resistance to Wastewater Surveillance and contemporary technologies including Next Generation Sequencing. Our industry partners will provide innovative sessions to update participants on their latest products. After conference hours, we will host 'Story Colliders' where colleagues will share their personal stories about science. Lastly, please make time to visit the Exhibit and Poster Hall to learn about the latest and greatest from our infectious diseases laboratory community.

ID Lab Con has been planned as an engaging and interactive experience that only in-person meetings can bring. APHL is committed to a culture of equity, inclusion and acceptance and supports a diverse laboratory science workforce. ID Lab Con is as an opportunity to celebrate our diversity.

On behalf of the Planning Committee, comprised of individuals from public health, clinical, commercial and industry backgrounds. Enjoy the meeting!



Marie-Claire Rowlinson, PhD, D(ABMM)
Co-chair, ID Lab Con 2023
Planning Committee



Megan Crumpler, PhD, HCLD(ABB)
Co-chair, ID Lab Con 2023
Planning Committee

General Information

Location

The APHL 2023 ID Lab Con is being held at the Westin Peachtree Plaza Hotel, 210 Peachtree St. NW, Atlanta, GA 30303, 404.659.1400. It is located in downtown Atlanta, walking distance to numerous restaurants, shops and entertainment.

Safety Protocols

- All In-person ID Lab Con attendees are strongly encouraged to be fully vaccinated and boosted against COVID-19, but this is not required.
- Pre-departure testing is optional, but highly recommend. If you test COVID-19 positive prior to departure, please stay home.
- Well-fitting, high-quality masks (e.g., KF94, KN95 or better) are strongly encouraged, but not required.

P.A.C.E.® Continuing Education Credits

APHL is an approved provider of continuing education programs in the clinical laboratory sciences through the American Society of Clinical Laboratory Science (ASCLS) P.A.C.E. program. Attendees may earn up to 17.5 P.A.C.E. credits by attending the entire conference.

Consent to Use Photographic Images

Registration and attendance at or participation in APHL conferences and other activities constitutes an agreement by the registrant to APHL's use and distribution (both now and in the future) of the registrant's or attendee's image or voice, without compensation, in photographs, video and audio recordings of such events and activities.

Complimentary Wireless Internet

There is complimentary wireless internet in the public areas of the hotel. To access, follow the directions provided onsite.

Enhance Your Experience with the Mobile App

Search for "APHL Conferences" in your app store to download.

- Conveniently access and search details on sessions, posters, exhibitors and more.
- Navigate the hotel and Exhibit Hall.
- Personalize your experience by tagging sessions, exhibitors, posters and speakers.
- Create and export notes about sessions.
- Connect with users (attendees).
- Receive alerts, reminders and changes in real time.

Thanks to Our Sponsors!



Welcome Reception



Mobile App



Coffee Break (Monday)



Coffee Break (Tuesday)
Afternoon Break (Tuesday)

APHL sincerely thanks the sponsors and exhibitors for their support of this inaugural event! Please visit with them in the Exhibit Hall on Monday and Tuesday.

Exhibit Hall Raffle

Visit with the exhibitors and win prizes! Follow the instructions on the Exhibit Hall raffle card distributed onsite, recording each booth visit. When ALL of the boxes are filled, turn the card in at the registration desk no later than 2:00 pm on Tuesday, March 14. Be sure to include your name on the card.

Winners of the prizes will be announced starting at 2:30 pm on Tuesday, March 14 in the Exhibit Hall. You must be present to win.

Prizes include:

- 2 coach airline tickets on Delta Airlines to anywhere in the continental US
- 1 coach airline ticket on Delta Airlines to anywhere in the continental US
- Nepresso coffee machine (compliments of GT Molecular)
- \$100 Amazon gift card
- And more!



CAREER PATHWAYS

in Public Health Laboratory Science

An APHL-CDC Initiative

The Association of Public Health Laboratories (APHL) and the Centers for Disease Control and Prevention (CDC) offer internship, fellowship and leadership programs for those interested in starting or furthering an exciting career in public health laboratory science. These programs offer real-world, hands-on experience while working collaboratively with industry leaders and developing professional networks.



Career Pathways

Explore niche fields in public health and take your first step towards making an impact.

- While enrolled in an undergraduate program, students can apply for a Public Health Laboratory Internship to gain real-world experience and network with highly skilled, professional laboratory scientists.
- Graduates can apply to bolster their education with one- to two-year fellowships that enhance their skills and networking opportunities and fellows will be matched with a mentor for their journey.
- APHL's Emerging Leader Program provides laboratory professionals with opportunities to acquire valuable leadership skills, preparing them to advance into managerial and supervisory positions.

Interested in helping to inspire others? Help us make public health careers more accessible by encouraging others to explore Career Pathways in Public Health Laboratory Science.



Learn more at
www.aphl.org/Career-Pathways

Schedule of Events

Sunday, March 12, 2023

9:00 am – 3:30 pm **Concurrent Preconference Workshops**

Workshop 1: HIV, HCV and Syphilis Diagnostic Testing

Room: Chastain J, 6th Floor

588-857-23 • 5.5 contact hours for this session

Speakers:

- Linda Styer, PhD, Wadsworth Center, New York State Department of Health
- Jeff Johnson, PhD, MS, Centers for Disease Control and Prevention
- William Meyer III, PhD, D(ABMM), MLS(ASCP)^{CM}, Quest Diagnostics
- Saleem Kamili, PhD, Centers for Disease Control and Prevention
- Megan Crumpler, PhD, HCLD(ABB), Orange County Public Health Laboratory
- Mayur Shukla, PhD, MS, Centers for Disease Control and Prevention
- Eric Tang, MD, MPH, California Prevention Training Center
- Sarah Buss, PhD, D(ABMM), Association of Public Health Laboratories

The HIV, HCV and Syphilis Diagnostic Testing Workshop is designed to enhance participants' understanding of diagnostic testing for these pathogens. The workshop will provide the latest testing algorithms and methodologies for HIV, HCV and syphilis based on recommendations from CDC and guidance from APHL. Instructors will review and discuss solutions to common challenges faced by laboratory staff testing for these pathogens as well as considerations for implementing automated testing platforms/assays. Participants will also engage in interactive discussions of hot topics, such as self-collection and self-testing, sexual health testing in adolescents, and testing for the initiation and/or monitoring of PrEP.

Workshop 2: Antimicrobial Resistance Testing in Diagnostic Laboratories

Room: Augusta 1, 7th Floor

588-855-23 • 5.5 contact hours for this session

Speakers:

- Patricia Simner, PhD, D(ABMM), Johns Hopkins University School of Medicine
- Amelia Bhatnagar, MPH, Centers for Disease Control and Prevention
- Paula Snippes Vagnone, MT(ASCP), Minnesota Department of Health
- Joe Sexton, PhD, Centers for Disease Control and Prevention
- Romney Humphries, PhD, D(ABMM), M(ASCP), Vanderbilt University Medical Center

Antimicrobial resistance (AMR) is an urgent global public health threat, with the potential to affect patients at any stage of their life. AMR testing is critical to detect and stop the spread of resistant infections and improve clinical outcomes. In this workshop, speakers will summarize the current testing methods available and highlight pathogens of public health

Sunday, March 12

significance. Speakers will also discuss the importance and use of AMR testing for public health surveillance, detection, and response. Additionally, participants will learn about resources available to clinical laboratories for the validation of the most current CLSI antibiotic susceptibility testing (AST) breakpoints and participate in a guided breakpoint implementation exercise.

Workshop 3: Next Generation Sequencing (NGS) in the Microbiology Laboratory

Room: Augusta 2, 7th Floor

588-856-23 • 5.5 contact hours for this session

Speakers:

- Sara Vetter, PhD, D(ABMM), Minnesota Department of Public Health
- Kelly Oakeson, PhD, Utah Public Health Laboratory
- Diego Arambula, PhD, Centers for Disease Control and Prevention
- Heather Stang, MS MT Centers for Disease Control and Prevention
- Kimberlee Musser, PhD, Wadsworth Center

This session will focus on two areas which are considered the next frontier of where laboratories are moving in the utilization of NGS technology — metagenomics and CLIA certification. Given the new and emerging threats and the ability to deploy metagenomics approaches to identify novel pathogens and characterize other known pathogens. While there are great interest and potential with metagenomics, there is much unknown as well. Relatedly, laboratories are interested in validating their NGS protocols under CLIA/CAP/CLEP. Many of the regulations and guidance by CMS and others were written prior to the advent of NGS technology in public health and clinical laboratories. Adapting the current guidance to NGS workflows has been a challenge for laboratories. The goal of this pre-conference workshop would educate attendees about the use of metagenomics and information on how bring NGS under CLIA.

Workshop 4: A Review of Diagnostic Parasitology Techniques

Room: Augusta 3, 7th Floor

588-858-23 • 5.5 contact hours for this session

Speakers:

- Marc Roger Couturier, PhD, D(ABMM), ARUP Laboratories
- Blaine A. Mathison, BS, M(ASCP), ARUP Laboratories
- Henry Bishop, Scientist (retired), Centers for Disease Control and Prevention

Expertise in clinical parasitology is waning in laboratories worldwide. In laboratories outside of parasite endemic areas, the expertise can be even more rapidly fleeting. This full day workshop brings the expert’s expertise to the learner. The session will review the common techniques used in clinical microbiology laboratories to detect and identify parasites. Less commonly used techniques and emerging technologies will also be reviewed and discussed with clinical examples for real-world application. Many dogmas that exist in clinical parasitology will also be revisited with vignettes to exemplify the challenges therein. Finally, interesting and challenging cases will be presented by the speakers.

4:00 pm – 7:00 pm Registration Open
 9th Level Terrace

Monday, March 13, 2023

7:00 am – 5:30 pm **Registration**
9th Level Terrace

7:30 am – 8:30 am **Coffee Break**
Savannah Ballroom

8:30 am – 10:00 am **Welcome and Opening Session Keynote**
Savannah Ballroom

588-843-23 • 1.5 contact hours for this session

Wlecome to Atlanta: Marie-Claire Rowlinson, PhD, D(ABMM) Wadsworth Center

Keynote Address: Demetre Daskalakis, MD, MPH, Director Division of HIV Prevention, Centers for Disease Control and Prevention

10:00 am – 6:30 pm **Exhibits and posters available for viewing**
Augusta Ballroom

10:00 am – 10:30 am **Morning Break In the Exhibit Hall**
Augusta Ballroom
Visit with exhibitors and view posters
Sponsored by Clear Labs

10:30 am - 12:30 pm **Plenary Session**
Savannah Ballroom

The Importance of Laboratory Partnerships in Pandemics
588-844-23 • 2.0 contact hours for this session

Moderator: Kara Levinson, PhD, D(ABMM), Tennessee Public Health Laboratory

- 1. Partnerships Between Clinical and Public Health Laboratories**
Paula Snippes Vagnone, MT(ASCP), MN Department of Health
Cindy Johnson, MS, MLS(ASCP)^{CM} Centra Care
- 2. Partnerships Between Federal and Commercial Laboratories**
Jasmine Chaitram, MPH, Centers for Disease Control and Prevention
- 3. Partnerships Between Public Health and Academic Laboratories**
Sean Sierra-Patev, MS, Rhode Island Public Health Laboratory
Chantal Vogels, PhD, Yale School of Public Health
- 4. Partnerships Between Laboratories and Industry**
Anthony Tran, PhD, D(ABMM), California Department of Public Health
Olivier Girard, Hologic
Scott Loudenback, Hologic

12:30 pm – 1:30 pm **Lunch (on your own)**

1:00 pm – 1:30 pm **Dessert in Exhibit Hall**
Augusta Ballroom

Monday, March 13

1:30 pm – 3:00 pm

Concurrent Breakout Sessions

Session 1: Building Global Laboratory Capacity for Infectious Disease Response

Augusta Room

588-845-23 • 1.5 contact hours for this session

Moderator: Kelly Hoon, PhD, Illumina

1. **Increased Viral Load Testing Capacity with Installation of Solar Power Systems in Zambia**
Lugard Sicalwe, BS, Association of Public Health Laboratories
2. **Laboratory Emergency Preparedness and Response — The Brazilian Rapid Response Laboratory Unit Experience**
Andre Abreu, MS, Fundação Oswaldo Cruz (Fiocruz)
3. **Terra, Zoom, and Public Notion Pages: Virtual Resources for Global Public Health Bioinformatics Workforce Development**
Kevin Libuit, MS, Theiagen Genomics
4. **Laboratory Response for COVID-19 Pandemic in Ethiopia**
Nebiyu Woldeamanuele, BS, MS, Ethiopian Public Health Institute

Session 2: Alternative Strategies to Diagnostic Testing

Savannah Ballroom

588-846-23 • 1.5 contact hours for this session

Moderator: Sara Vetter, PhD, D(ABMM), Minnesota Department of Health

1. **Feasibility and Functionality of SARS-CoV-2 Rapid Testing in K-12 School Health Offices**
Jon Temte, MD, PhD, University of Wisconsin School of Medicine and Public Health
2. **Dried Blood Spots: A Convenient and Easy-to-collect Sample for Large-scale Immunological Surveillance of Infectious Diseases**
Linda Styer, PhD, Wadsworth Center
3. **Rapid Detection of *Mycobacterium tuberculosis* Complex from Positive MGIT Broth Cultures Using the Cepheid Xpert MTB/RIF Assay: Potential Workflow Optimization Based on Cording and Time to Positivity**
Salika Shakir, PhD, D(ABMM), University of Utah / ARUP

3:00 pm – 3:30 pm

Augusta Ballroom

Afternoon Break in the Exhibit Hall

Visit with exhibitors and view posters

3:30 pm – 5:00 pm

Savannah Ballroom

Plenary Session

This Week in Virology Presents from ID LabCon

588-847-23 • 1.5 contact hours for this session

Featuring:

- Vincent R. Racaniello, PhD, Columbia University
- Katherine Spindler, PhD, University of Michigan
- Megan Crumpler, PhD, HCLD(ABB), Orange County Public Health Laboratory
- Kirsten St. George, PhD, F(AAM), Wadsworth Center
- Ryan Relich, PhD, D(ABMM), MLS(ASCP), Indiana University Health and Indiana University School of Medicine

5:00 pm – 6:30 pm

Augusta Ballroom

Reception in Exhibit Hall

sponsored by Thermo Fisher Scientific

Tuesday, March 14, 2023

6:30 am – 5:00 pm

9th Level Terrace

Registration

6:30 am – 8:00 am

Augusta Room Foyer

Continental Breakfast

7:00 am – 8:15 am

Partners in Technology Sessions

A series of sessions from our exhibitors showing off their latest innovations for the infectious disease laboratory community. **See next page for details. ►**

8:30 am – 10:00 am

Plenary Session

Savannah Ballroom

Diving Into Late Breaking Infectious Disease Issues

588-848-23 • 1.5 contact hours for this session

Moderator: Marc Couturier, PhD, D(ABMM), ARUP Laboratories

1. **Identification of Multi-Drug Non-Susceptible Gonorrhea in Massachusetts: A Public Health Laboratory Perspective**
Caryn Ivanof, BS, M (ASCP)^{CM} Massachusetts Public Health Laboratory
2. **Tracking the Source of a VIM-positive *Pseudomonas aeruginosa* Outbreak**
Marissa Grossman, PhD, Centers for Disease Control and Prevention

10:00 am – 10:30 am

Augusta Ballroom

Morning Break in the Exhibit Hall

Visit with exhibitors and view posters

sponsored by Roche Diagnostics

10:00 am – 3:00 pm

Augusta Ballroom

Exhibits and posters available for viewing

10:30 am – 12:00 pm

Savannah Ballroom

Plenary Session

Metagenomic Approaches to Infectious Disease Surveillance and Diagnostics

588-849-23 • 1.5 contact hours for this session

Moderator: Patricia Simner, PhD, D(ABMM), Johns Hopkins University School of Medicine

1. **Shotgun Metagenomics: A Success Story of the Rapid Development and Implementation of a Genomic Surveillance Method During the 2022 Human MPox Outbreak**
Jared Johnson, PhD, Michigan Bureau of Laboratories

Tuesday, March 14

schedule continues on page 16

Partners in Technology Spotlight Sessions

Tuesday, March 14, 7:00 am – 7:30 am

Sexually Transmitted Infections: Is Testing for Chlamydia and Gonorrhea Sufficient?

presented by Abbott Molecular

Room: Augusta 1

Trichomonas vaginalis (TV) and *Mycoplasma genitalium* (MG), known causes of cervicitis and urethritis, often present similar symptoms as *Chlamydia trachomatis* (CT) and *Neisseria gonorrhoeae* (NG). Currently, TV and MG molecular tests are not as widely utilized in routine STI testing as CT/NG tests. Consequently, TV and MG prevalence remains unknown. Using AbbottLink and the Alinity m STI assay, we assessed the frequency and distribution of CT, NG, TV, and MG in a clinical cohort.

Speaker: Richard Cullum, Abbott Molecular

Addressing the Challenges and Scalability of Using NGS for Infectious Disease Detection and Surveillance

presented by Tecan

Room: Augusta 2

The challenges associated with NGS library preparation from different clinical primary samples can be daunting. Low input, sample quality and contamination can all impact the reliability and robustness of library preparation for the detection and surveillance of pathogenic microbes. This presentation will discuss how to meet the challenges in NGS library prep.

Speaker: Ashesh Saraiya, Tecan

Terra.Bio — Enabling Broad Access to Open-Source and Modular Solutions for Pathogen Genomics in the Cloud

presented by Theiagan Genomics

Room: Augusta 3

During this Spotlight Session, Theiagen Genomics will highlight the ways in which the Terra.Bio web application has helped to facilitate rapid implementation of pathogen genomics capabilities in public health laboratories with limited bioinformatics or programming experience.

This Spotlight Session will include a brief presentation regarding the challenges of bioinformatics implementation in public health settings, a live demonstration of the Terra.Bio platform, and ample time for question and discussion with participants.

Speaker: Kevin Libuit, MS, Theiagen Genomics

Partners in Technology Spotlight Sessions

Tuesday, March 14, 7:45 am – 8:15 am

Evolving HCV Epidemic: Role of HCV Testing in Closing the Gap and Meeting 2030 CDC Elimination Goals

presented by Hologic

Room: Augusta 1

Hepatitis C virus (HCV) infection remains a substantial health problem as a leading cause of chronic liver disease worldwide. This session will evaluate HCV screening and testing rates, discuss challenges with optimizing diagnosis of current HCV infection and ensuring linkage to treatment for individuals with HCV.

Speaker: Karen Harrington, PhD, HCLD(ABB), Head of Scientific Affairs, Hologic

Understanding the New PrEP Guidelines and its Potential Implications within the Public Health Space

presented by Roche Diagnostics

Room: Augusta 2

In 2021, the CDC released updated HIV PrEP Guidelines. Changes included: expansion of eligible patients and prescribing providers, inclusion of injectable PrEP (i.e. Cabotegravir), and new laboratory monitoring guidelines. Central to the lab changes were the introduction of two separate PrEP testing algorithms that present significant workflow alterations within PHLs. We will explore these guideline changes, the challenges that they place on clinicians, patients, and laboratorians, and potential solutions to these laboratory implementation challenges.

Speakers: Eric Fox and Will Swatson, Roche Diagnostics

The Resistance Is NOW! Identifying Antimicrobial Resistance (AMR) from Sample to Insight

presented by QIAGEN

Room: Augusta 3

With increasing antimicrobial resistance emerging globally, we urgently need to improve the preparation of biological samples, such as stool and wastewater. In this session, we will demonstrate characteristics and workflows of different sample types for optimal antimicrobial resistance detection and surveillance, and give useful tips and tricks to get the most out of your samples and data.

Speakers: Joshua Boston and John Chuckalovcak, QIAGEN

Tuesday, March 14

2. **Developing Threat Agnostic Sequencing Capabilities and the Utility in Public Health Laboratories**
Brian Merritt, MS, Johns Hopkins University Applied Physics Laboratory
3. **Culture Independent Metagenomics for Foodborne Illnesses: A Call for Public Health Partner Collaboration**
Andrew Huang, PhD, Centers for Disease Control and Prevention

12:00 pm – 1:00 pm **Lunch in the Exhibit Hall**
Augusta Ballroom *Visit with exhibitors and view posters*

1:00 pm – 2:30 pm **Concurrent Breakout Sessions**

Session 1: Antimicrobial Case Studies: No One Can Resist!

Savannah Ballroom

588-850-23 • 1.5 contact hours for this session

Moderator: Lars Westblade, PhD, D(ABMM), Weill Cornell Medicine

1. **Can We Stay Positive Please? Case Studies of Gram-positive Bacterial Antimicrobial Resistance**
Mimi Pricet, PhD, D(ABMM), Providence Health and Services
2. **Don't Be Negative! Case Studies of Gram-Negative Bacterial Antimicrobial Resistance**
Eric Ransom, PhD, D(ABMM), University Hospitals Cleveland Medical Center
3. **At Yeast There is Hope, Right? Case Studies of Fungal Antimicrobial Resistance**
Shawn Lockhart, PhD, Centers for Disease Control and Prevention

Session 2: Evidence-Based Approaches to Biosafety

Augusta Room

588-851-23 • 1.5 contact hours for this session

Moderator: Ryan Relich, PhD, D(ABMM), University of Indiana Hospital

1. **You Want Me to Ship What!? Radioactive and Select Agents; Unusual Shipping Requests**
Jason Wholehan, MLS (ASCP), Michigan Bureau of Laboratories
2. **Continuity of Operations When Renovating a BSL-3 Laboratory and/or Upgrading Its HVAC System**
Theodore Traum, World BioHazTec
3. **Assessment of Environmental and Occupational Exposure While Working with *Mycobacterium abscessus* in an Inhalation Exposure System**
Syadatun Ahana, MPH, Wadsworth Center

2:30 pm – 3:00 pm **Afternoon Break in the Exhibit Hall**
Augusta Ballroom *Visit with exhibitors and view posters*
sponsored by Roche Diagnostics

3:00 pm – 5:00 pm Plenary Session

Savannah Ballroom

Wastewater Surveillance: Building Systems That Lead to Actionable Data

588-852-23 • 2.0 contact hours for this session

Moderator: Rory Welsh, PhD, Centers for Disease Control and Prevention

- 1. Technical Challenges to Enhanced Integration of Wastewater-based Pathogen Data into Epidemiological Practice**
Dagmara S. Antkiewicz, PhD, Wisconsin State Lab of Hygiene
- 2. You Are What You Poop: Using Wastewater Surveillance to Inform Public Health Actions**
Eric Vaughn, DrPH, DC Public Health Laboratory
- 3. Piloting Wastewater-based Surveillance of SARS-CoV-2 Variants in Virginia, 2021–2022**
Lauren Turner, PhD, Virginia Department of Consolidated Laboratory Services
- 4. Wastewater Surveillance for *C. auris*: A Novel Tool for Early Detection in the Community?**
Alessandro Rossi, PhD, Utah Public Health Laboratory

7:00 pm – 9:00 pm The Story Collider Live Off-site Event

supported by CDC Foundation

Location: National Center for Civil and Human Rights
100 Ivan Allen Jr Blvd NW, Atlanta, GA 30313

Doors open at 6:30 pm. Event starts at 7:00 pm.

Science shapes everyone's life — and that means everyone has science stories to tell. The Story Collider produces dozens of live shows all over the country, to put these stories on stage. Some of the stories are heartbreaking, others are hilarious, but they are all true and all very personal. Join us for a very special edition of The Story Collider, featuring true, personal stories about science from infectious disease experts!



Tuesday, March 14

Wednesday, March 15, 2023

7:00 am – 12:30 pm **Registration**

9th Level Terrace

7:00 am – 8:00 am **Coffee Break**

Savannah Ballroom

8:30 am – 10:00 am **Plenary Session**

Savannah Ballroom

Pushing Back the Frontiers of Science: A Review of This Year's Literature

588-853-23 • 1.5 contact hours for this session

Moderator: Michael Pentella, PhD, D(ABMM), Iowa State Hygienic Laboratory

- 1. State of the Science: Respiratory Viruses**
Kirsten St. George, PhD, Wadsworth Center
- 2. State of the Science: Antimicrobial Resistance**
Paula Snippes Vagnone, MT(ASCP), MN Department of Health
- 3. State of the Science: Changes in Nomenclature**
Ryan Relich, PhD, D(ABMM), University of Indiana Hospital
- 4. State of the Science: Next Generation Sequencing and Bioinformatics**
Kelly Oakeson, PhD, Utah Public Health Laboratory
- 5. State of the Science: Mycobacteriology**
Marie-Claire Rowlinson, PhD, D(ABMM), Wadsworth Center
- 6. State of the Science: Wastewater Surveillance**
Michael Pentella, PhD, D(ABMM), Iowa State Hygienic Laboratory

10:00 am – 10:30 am **Morning Break**

10:30 am – 12:30 pm **Closing Session**

Savannah Ballroom

Responding to Emerging Infectious Diseases

588-854-23 • 2.0 contact hours for this session

Moderator: Christina Egan, PhD, Wadsworth Center

- 1. Validation and Performance of an Orthopoxvirus Laboratory Developed Test with Early Detection of Mpox in Residual Lesion Specimens**
David Gaston, MD, PhD, Vanderbilt University Medical Center
Alison Benton MS, SMB(ASCP)^{CM}, Vanderbilt University Medical Center
- 2. Rapid-response Wastewater Testing to Support a Polio Outbreak Investigation**
Kirsten St. George, PhD F(AAM), Wadsworth Center
- 3. Genomic Investigation of Two Simultaneous *Candida auris* Outbreaks in Southern Nevada**
Andrew Gorzalski, PhD, Nevada State Public Health Laboratory

Awards and Closing Remarks

- Marie-Claire Rowlinson, PhD, D(ABMM), Wadsworth Center
- Megan Crumpler, PhD, HCLD(ABB) Orange County Public Health Laboratory

Save the Date!

13th National Conference on Laboratory Aspects of Tuberculosis

June 12–13, 2023
Loews Atlanta Hotel
Atlanta, GA



The 13th National Conference on Laboratory Aspects of Tuberculosis will be held in conjunction with the National TB Controllers (NTCA) Conference. It will focus on ongoing shifts in the TB laboratory system in both diagnostic technology and service delivery. Other topics include optimizing drug susceptibility testing; the latest data on the use of molecular test methods for TB; troubleshooting common problems in the TB laboratory; and global implications and practice.

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| ☒ <i>Trichomonas vaginalis</i> | ☒ HBV Quant | ☐ GI Viral† |
| ☒ Bacterial vaginosis | ☒ CMV Quant | ☐ GI Parasite† |
| ☒ Candida vaginitis/
<i>Trichomonas vaginalis</i> | ☒ Flu A/B/RSV | ☐ GBS† |
| ☒ HSV 1 & 2 | ☒ Paraflo | ☐ EBV† ^{cc} |
| ☒ HPV | ☒ AdV/hMPV/RV | ☐ BKV† ^{cc} |
| ☒ HPV 16 18/45 | ☒ SARS-CoV-2* | ☐ C. difficile† |
| ☒ Zika Virus* | ☒ SARS-CoV-2/Flu A/B* | ☐ M. gen macrolide resistance† |
| | ☐ SARS-CoV-2/Flu A/B/RSV† ^{cc} | ☐ Mpx† |

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* The Aptima SARS-CoV-2, Panther Fusion SARS-CoV-2, Aptima Zika Virus and Aptima SARS-CoV-2/Flu assays have not been FDA cleared or approved. These tests have been authorized by FDA under an EUA for use by authorized laboratories; the Aptima and Panther Fusion SARS-CoV-2 assays have been authorized only for the detection of nucleic acid from SARS-CoV-2, not for any other viruses or pathogens; the Aptima Zika Virus assay has been authorized only for the detection of nucleic acid from Zika virus, not for any other viruses or pathogens; the Aptima SARS-CoV-2/Flu assay has been authorized only for the simultaneous qualitative detection and differentiation of nucleic acid from SARS-CoV-2, influenza A virus, influenza B virus, and not for any other viruses or pathogens. The Aptima SARS-CoV-2, Panther Fusion SARS-CoV-2, and Aptima SARS-CoV-2/Flu assays are only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of in vitro diagnostic tests for detection and/or diagnosis of COVID-19 under Section 564(b)(1) of the Act, 21 U.S.C. § 360bbb-3(b)(1), unless the authorization is terminated or revoked sooner. The Aptima Zika assay is only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of in vitro diagnostic tests for detection of Zika virus and/or diagnosis of Zika virus infection under Section 564(b)(1) of the Act, 21 U.S.C. § 360bbb-3(b)(1), unless the authorization is terminated or revoked sooner.

† In development and not for sale.

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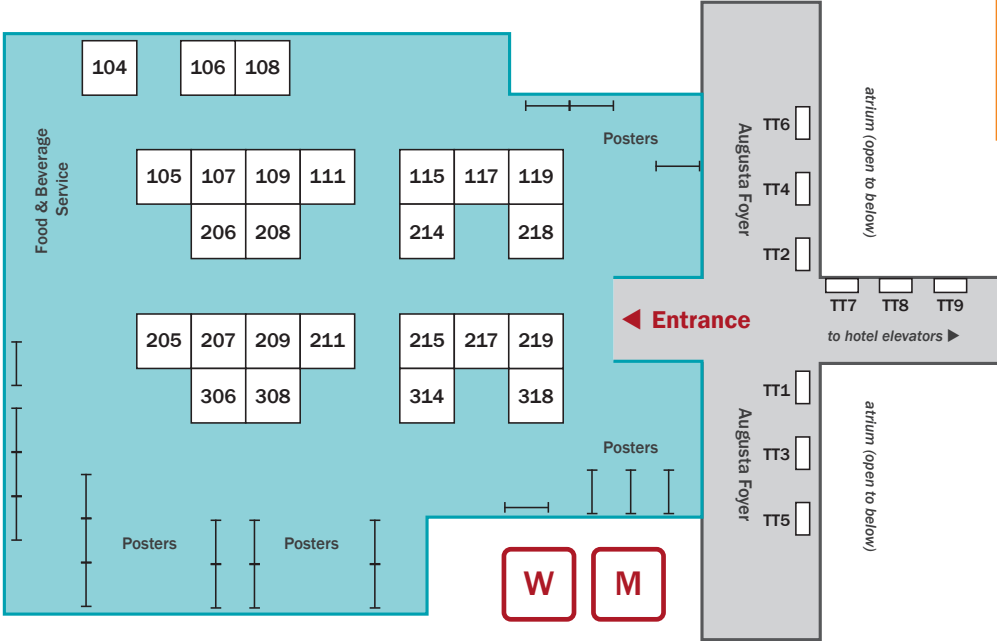


Exhibit Hall Map

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TT = Table Top in the exhibit hall foyer

Augusta Ballroom, 7th Floor





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Exhibitors

Abbott Laboratories Booth 314

1350 Touhy Ave.
Des Plaines, IL 60018
224.361.7629 • www.abbott.com

Abbott is a global leader in in vitro diagnostics with one of the broadest portfolios of businesses spanning nearly every segment – point of care, immunoassay, clinical chemistry, hematology, blood screening, molecular, and informatics. Abbott's life-changing tests and diagnostic tools provide accurate, timely information to better manage health. We're empowering smarter medical and economic decision making to help transform the way people manage their health at all stages of life.

Avioq, Inc. Booth 308

76 TW Alexander Dr.
Research Triangle Park, NC 27709
919.314.5535 • www.avioq.com

Avioq, Inc., founded in 2007 has headquarters in Research Triangle Park, NC. Products include an FDA approved HIV-1 assay and HIV Profile Supplemental assay for confirmation of HIV-1 and HIV-2, and FDA licensed HTLV-I/II assay for screening blood donors. The company also offers CDMO services for diagnostic test kit development and manufacturing, including critical biomaterials (GMP produced recombinant proteins and synthetic peptides to HIV-1 and 2, and HTLV-I/II viral lysates) to third parties.

Bio-Rad Laboratories Booth 205

1000 Alfred Nobel Dr.
Hercules, CA 94547
510.406.0187 • www.bio-rad.com

Bio-Rad provides a wide range of products for use in the support of COVID-19 diagnostic, serology and wastewater testing. We also

offer a full range of infectious disease tests including HIV screening/supplemental testing and hepatitis, molecular diagnostics and quality control solutions. Bio-Rad's molecular-based offerings include market-leading droplet digital PCR technology and real-time PCR solutions.

Bruker Scientific, LLC Booth 107

40 Manning Rd.
Billerica, MA 01821
978.559.9573 • www.bruker.com

More than a decade ago, Bruker changed microbiology by developing the MALDI Biotyper® System, the market-leading MALDI-TOF for microbiology laboratories that provides an identification for over 4000 species in less than 20 minutes starting from culture. Another Bruker innovation, the IR Biotyper®, provides rapid and cost-effective microorganism strain typing using infrared spectroscopy technology to further support proactive infection control.

Centers for Disease Control and Prevention Table Top 9

2400 Century Parkway NE
Atlanta, GA 30345
404.718.5729 • www.cdc.gov/labsystems

The CDC Division of Laboratory Systems aims to improve public health, patient outcomes, and health equity by advancing laboratory systems.

Cepheid Booth 306

904 Caribbean Dr.
Sunnyvale, CA 94089
408.541.4191 • www.cepheid.com

Cepheid is a leading molecular diagnostics company that is an operating company within Danaher Corporation. By automating

highly complex and time-consuming manual procedures, the company's solutions deliver a better way for institutions of any size to perform sophisticated molecular diagnostic testing for organisms and genetic-based diseases.

Clear Labs Booth 218

1559 Industrial Rd.
San Carlos, CA 94070
650.257.3304 • www.clearlabs.com

Clear Labs harnesses the power of next-generation sequencing to simplify complex workflows for clinical and applied markets. By creating a fully automated platform that brings together DNA sequencing, chemistry, robotics and cloud-based analytics, Clear Labs delivers clarity and actionable insights for genomic surveillance of infectious disease pathogens.

EzBiome, Inc. Booth 208

704 Quince Orchard Rd., Suite 250
Gaithersburg, MD 20878
301.798.9222 • www.ezbiome.com

EzBiome is a microbiome company specialized in precision taxonomy and cutting-edge genomic intelligence. Our mission is to innovate and elevate the discovery of novel diagnostics and therapeutics for chronic and infectious diseases. With the world's largest curated reference databases and class-leading bioinformatics, we are building sequencing-based diagnostic and discovery platforms to revolutionize microbiology and medicine.

GT Molecular Booth 104

211 E. Lincoln Ave.
Fort Collins, CO 80524
970.498.1516 • www.gtmolecular.com

GT Molecular provides high-performance, ultrasensitive digital and Real-Time PCR assays for reliable pathogen quantification and for advancing cancer research with our upcoming cancer panels. Our assay kits optimized and validated for wastewater detection along with

our national wastewater testing laboratory and NGS services have made us leaders in Wastewater-Based Epidemiology.

Hologic Booths 215 & 217

10210 Genetic Center Dr.
San Diego, CA 92121
619.314.0984 • www.hologic.com

At Hologic, we enable people to live healthier lives everywhere, every day. The Diagnostic Solutions division delivers on this commitment by developing and providing innovative cytology, molecular and perinatal testing. With instrumentation and assays rooted in science and driven by technology, Hologic helps guide patient care and enable earlier detection.

Illumina Booth 209

5200 Illumina Way
San Diego, CA 92122
858.232.4275 • www.illumina.com

A global genomics leader, Illumina provides comprehensive next-generation sequencing solutions to the research, clinical, and applied markets. Illumina technology is responsible for generating more than 90% of the world's sequencing data. Through collaborative innovation, Illumina is fueling groundbreaking advancements in oncology, reproductive health, genetic disease, microbiology, agriculture, forensic science, and beyond.

Molecular Loop Biosciences, Inc. Booth 105

300 Tradecenter Dr., Suite 5400
Woburn, MA 01801
508.296.0030 • www.molecularloop.com

Molecular Loop's customized targeted next-generation sequencing solutions deliver industry leading workflow simplicity without sacrificing data quality. The company leverages its technology and deep genomics expertise to accelerate life science innovations and make advancements in personalized healthcare.




New England Biolabs Booth 108

240 County Rd.
Ipswich, MA 01938
978.380.7352 • www.neb.com

For over 40 years, New England Biolabs, Inc. has led the industry in the discovery and production of molecular biology reagents. In addition to products for genomic research, NEB continues to expand its product offerings into areas related to PCR, gene expression, sample prep for next gen sequencing, cellular analysis, synthetic biology and RNA analysis.

OraSure Technologies Table Top 1

220 East 1st St.
Bethlehem, PA 18015
610.882.1820 • www.orasure.com

OraSure Technologies manufactures oral fluid devices designed to detect or diagnose critical medical conditions. Its innovative products include rapid tests for HIV and HCV antibodies, OTC test for COVID-19, influenza antigens, testing solutions for detecting drugs of abuse, and oral fluid sample collection, stabilization and preparation products for molecular diagnostic applications.

PerkinElmer Booth 318

710 Bridgeport Ave.
Shelton, CT 06484
800.762.4000 • www.perkinelmer.com

PerkinElmer is a global leader committed to innovating for a healthier world. Our dedicated team of employees worldwide is passionate about helping customers work to create healthier families, improve the quality of life, and sustain the wellbeing and longevity of people globally. Our innovative detection, imaging, informatics and service capabilities, combined with deep market knowledge and expertise, help customers gain earlier and more accurate insights to improve lives and the world around us.

Pro-Lab Diagnostics Table Top 7

21 Cypress Blvd., Suite 1158
Round Rock, TX 78665
512.832.9145 • www.pro-lab-direct.com

Established in 1974, Pro-Lab Diagnostics is dedicated to providing high quality immunodiagnostic reagents, molecular supplies, and equipment. Our featured products include Prolex Microbiology Latex Kits, Microbank and an array of laboratory essentials. A new expansion in our molecular line is the introduction of Pro-Amp M-MuLV RT and Mastermix.

Promega Booth 115

2800 Woods Hollow Rd.
Madison, WI 53711
800.356.9526 • www.promega.com

Promega supports scientists working to understand the molecular mechanisms by which emerging viruses infect humans and animals and develop accurate testing methods. We provide collaborative support, nucleic acid purification and amplification products, and labeling technologies that streamline workflows and expedite the work of labs studying coronaviruses and other viral diseases.

QIAGEN Booths 117 & 119

3110 Nursey Rd. SE
Smyrna, GA 30082
404.775.1044 • www.qiagen.com

QIAGEN serves more than 500,000 customers around the globe, all seeking answers from the building blocks of life – DNA, RNA and proteins. We deliver Sample to Insight solutions for molecular testing, propelling our customers from start to finish to unlock new insights. This is how we make improvements in life possible.

Quantabio Booth 206

100 Cummings Center, Suite 407J
Beverly, MA 01915
617.548.8128 • www.quantabio.com

Quantabio is a leading provider of advanced DNA and RNA amplification reagents for the most demanding molecular testing applications in applied, translational, and life science research. Our team leverages decades of experience in developing pioneering amplification technologies to deliver cutting-edge products to researchers focused on critical cloning, PCR, qPCR, and Next-Generation Sequencing (NGS) applications.

Based in Beverly, Massachusetts, Quantabio offers a growing portfolio of products through its international sales operations, as well as a global network of distributors and commercial service providers.

QuidelOrtho Table Top 4

101 US 200
Raritan, NJ 08869
908.635.4030 • www.quidelortho.com

At QuidelOrtho, we transform diagnostic data into answers, understanding and action, illuminating the path forward for all. For more than 80 years, we've pursued the unknown with a passion and purpose to improve health. And we'll continue to transform the power of diagnostics into a healthier future for all.

Randox Laboratories Table Top 6

515 Industrial Blvd.
Kearneyville, WV 25430 • www.randox.com

With 40 years' experience, Randox has developed an expertise in molecular diagnostics and offers a range of innovative QC solutions for comprehensive infectious disease testing.

In addition to our molecular testing capabilities such as the Vivalytic and Discovery; we are also a leading provider of molecular quality-controls, with Qnostics' expansive molecular IQC portfolio and our

world-leading molecular EQA scheme: QCMD with its variety of programme options, Randox laboratories is leading the way to meet the needs of today's molecular laboratories.

Redbud Labs Table Top 2

400 Park Offices Dr., Suite 301
Durham, NC 27709
919.995.1401 • www.redbudlabs.com

Redbud Labs uses advanced microfluidic technology to make automation accessible to all labs. We have developed NAXtract, a cartridge-based sample prep platform that sets the bar for ease-of-use. Unlike other instruments, NAXtract is designed for medium throughput workflows, making it ideal for smaller labs, clinical sequencing, stat and esoteric tests.

Roche Diagnostics Booth 211

9115 Hague Rd.
Indianapolis, IN 46256
317.605.1509 • www.diagnostics.roche.com

Roche's integrated solutions are designed to face the challenges of today even as we anticipate the needs of tomorrow. They simplify the complexity that lab professionals and healthcare organizations face every day, providing certain results to help clinicians improve patient care in a rapidly changing and uncertain environment.

Standard BioTools Table Top 8

2 Tower Place, Suite 2000
South San Francisco, CA 94080
512.788.3821 • www.standardbio.com

Standard BioTools™, previously known as Fluidigm, is driven by a bold vision — unleashing tools to accelerate breakthroughs in human health. Standard BioTools provides an established portfolio of essential, standardized technologies that empower customers to scale and accelerate their life sciences research. From interrogating cell function and cancer-immune



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cell interactions to confidently determining new biomarkers or integrity of samples, Standard BioTools promotes the development of breakthrough medicines faster and better through the delivery of consistent, reliable, and repeatable results.

Streck Booth 111

7002 S. 109th St.
La Vista, NE 68128
402.691.7428 • www.streck.com

Streck has improved patient outcomes for over 50 years with cell-based quality controls for hematology, chemistry, and flow cytometry. Streck ARM-D® Kits for Antimicrobial Resistance (AR) testing allow for the rapid, comprehensive detection of many AR gene variants in clinical isolates tested in ARLN laboratories. Streck is the worldwide distributor of the Ceres Nanotrap® Microbiome Particles, which capture and concentrate microorganisms found in wastewater samples for Wastewater-Based Epidemiology programs.

Tecan Genomics Booth 214

900 Chesapeake Dr.
Redwood City, CA 94063
415.529.0857 • www.tecan.com

At Tecan we are driven to improve people's lives & health. We collaborate with our customers from early-stage innovation through project implementation and beyond and deliver solutions that make lab processes & medical procedures precise, reproducible, and compliant. This leads to scalable outcomes that are ever more valuable to humankind.

TECHLAB, Inc. Table Top 3

2001 Kraft Dr.
Blacksburg, VA 24060
800.832.4522 • www.techlab.com

TECHLAB, Inc. is a leading developer and manufacturer of infectious disease

diagnostics products worldwide. Since 1989, the company has offered a quality portfolio of diagnostic tests which now includes assays for *C. difficile*, respiratory pathogens, *H. pylori*, *Campylobacter*, Shiga toxin producing *E. coli*, protozoan parasites, and biomarkers of intestinal inflammation. TECHLAB is headquartered in Blacksburg, VA and manufactures its diagnostic tests in the United States at its state-of-the-art manufacturing facility in Radford, VA.

Theiagen Genomics Booth 219

1745 Shea Center Dr.
Highlands Ranch, CO 80129
720.768.4041 • www.theiagen.com

Theiagen Genomics is a boutique professional services firm that transforms public health and infectious disease surveillance through the innovative implementation of Next-Generation Sequencing ("NGS") and bioinformatics technologies. With extensive expertise in academia, government, and industry working on diverse projects in public health and infectious disease surveillance, Theiagen brings a forward leaning and community-led approach to increasing bioinformatics accessibility and usage for public health decision making. Specializing in secure, open source, cloud-based solutions for public health, Theiagen offers development, training, support, and analysis for comprehensive genomic epidemiology solutions.

Thermo Fisher Scientific Booth 207

5791 Van Allen Way
Carlsbad, CA 92008
858.335.8187 • www.thermofisher.com

Thermo Fisher Scientific is the world leader in serving science. We enable our customers to make the world healthier, cleaner and safer. Customers worldwide trust our products and services to help them accelerate innovation and enhance productivity. Through our brands we offer an unmatched combination of innovative technologies, purchasing convenience and comprehensive support.



Twist Bioscience

Booth 109

681 Gateway Blvd.
South San Francisco, CA 94080
919.737.0464 • www.twistbioscience.com

Twist Bioscience is a leading and rapidly growing synthetic biology and genomics company that has developed a disruptive DNA synthesis platform to industrialize the engineering of biology. The core of the platform is a proprietary technology that pioneers a new method of manufacturing synthetic DNA by “writing” DNA on a silicon chip. Twist manufactures synthetic DNA-based products, including synthetic genes, tools for NGS preparation, and antibody libraries for drug discovery and development.

World BioHazTec

Booth 106

329 Steedman Point Rd.
Pasadena, MD 21122
877.425.8500 • www.worldbiohaztec.com/us

World BioHazTec provides BSL-2, BSL-3, and BSL-4 consulting including design review, construction inspections, commissioning, annual verification, IBC consultation, SOP development and training. We ensure that you meet grant requirements for the design, operation and maintenance of your laboratory. World BioHazTec provides solutions to keep your lab operations safe and seamless.

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**RNA-based Aptima® Mycoplasma
genitalium assay provides up to
100% sensitivity.²**

60%

**DNA-based LDT tests can
miss 40% of infections.²**

References: 1. Taylor-Robinson D, et al. *Mycoplasma genitalium*: from Chrysalis to Multicolored Butterfly. Clin Microbiol Rev. 2011;24(3):498-514. doi:10.1128/CMR.00006-11. 2. Le Roy C, et al. French prospective clinical evaluation of the Aptima Mycoplasma genitalium CE-IVD assay and macrolide resistance detection using three distinct assays. J Clin Microbiol. 2017;55(11):3194-3200.

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Posters

Monday, March 13, 10:00 am – 6:30 pm Augusta Ballroom

Diagnostic Microbiology (posters 01M–25M)

Global Health/One Health (posters 26M–31M)

Tuesday, March 14, 10:00 am – 3:00 pm Augusta Ballroom

Biosafety and Biosecurity (posters 01T–02T)

Emerging Technologies (posters 03T–08T)

Outbreaks and Surveillance (posters 09T–33T)

Full poster abstracts may be found at www.aphl.org/IDLabCon.



Full poster abstracts

Monday, March 13, 2023

Diagnostic Microbiology (posters 01M–25M)

Poster 01M

High-Throughput, Automated Detection of *Candida auris* on the Cobas(R) 6800/8800 with the Cobas(R) omni Utility Channel

S. McCune, E. Gick and S. Blosser, Roche Diagnostics, Indianapolis, IN

Presenter: Stephen McCune, Roche Diagnostics, Indianapolis, IN, stephen.mccune@roche.com

Poster 02M

Stability of the Pilot™ COVID-19 At-home Test After Exposure to Extreme Temperatures

J. Deeter, S. McCune, E. Gick and S. Blosser, Roche Diagnostics, Indianapolis, IN

Presenter: Sara Blosser, Roche Diagnostics, Indianapolis, IN, sara.blosser@roche.com

Poster 03M

Public Health and *M. tuberculosis*-Complex Nucleic Acid Amplification (NAA) Testing: Finding A Balance

C. Stafford, D. Francis, Q. Mazzaferro and E. Timme, Arizona Department of Health Services, Phoenix, AZ

Presenter: Drew Francis, Arizona Department of Health Services, Phoenix, AZ, evan.timme@azdhs.gov

Poster 04M

Prevalence of *Mycoplasma genitalium* Among High-risk Persons in Dallas County

M. Gearhart, S. Athale, D. Silva and L. Short, Dallas County HHS Laboratory, Dallas, TX

Presenter: Margaret Gearhart, Dallas County Health and Human Services Laboratory, Dallas, TX, margaret.gearhart@dallascounty.org

Poster 05M

GAMBIT (Genomic Approximation Method for Bacterial Identification and Tracking): A Methodology to Rapidly Leverage Whole Genome Sequencing of Bacterial Isolates for Clinical Identification

D. Hess¹, J. Lumpe¹, A. Gorzalski¹, F. Ambrosio², M. Scribner², K. Libuit², J. Sevensky², M. Pandori¹; ¹Nevada State Public Health Laboratory, Reno, NV, ²Theiagen Genomics, Highlands Ranch, CO

Presenter: David Hess, Nevada State Public Health Laboratory, Reno, NV, dhess@unr.edu

Poster 06M

Clinical Identification of Dimorphic Molds Using the Bruker MALDI-TOF

T. Heyer, A. Schooley, K. McCullor, B. Hirt and J. Vanneste, Michigan Department of Health and Human Services, Lansing, MI

Presenter: Tonya Heyer, Michigan Department of Health and Human Services, Lansing, MI, heyert@michigan.gov

Poster 07M

Rapid Testing Methods to Combat Penicillin-resistant *Neisseria meningitidis*

A. Peifer, A. Kidney, S. Jose, G. Nattanmai, L. Randall, T. Halse, M-C. Rowlinson and K. Mitchell, Wadsworth Center, Albany, NY

Presenter: Kara Mitchell, Wadsworth Center, Albany, NY, kara.mitchell@health.ny.gov

Poster 08M

Comparison of a Commercial Kit and Traditional Culture Method for Detection of *Salmonella* spp. on Environmental Samples

D.C. Peña Hernandez and G.K. Hendrix, Purdue University College of Veterinary Medicine, West Lafayette, IN

Presenter: Daniela Peña Hernandez, Purdue University, West Lafayette, IN, dpeahern@purdue.edu

Poster 09M

Moving from Drive-through to Home Collection for COVID-19

M. Pentella, M. Pendergast, W. Aldous, and C. Cass, State Hygienic Laboratory at the University of Iowa, Iowa City, IA

Presenter: Michael Pentella, University of Iowa State Hygienic Laboratory at the University of Iowa, Iowa City, IA, michael-pentella@uiowa.edu

Poster 10M

Chagas Disease Molecular Detection at the Centers for Disease Control and Prevention (CDC)

Y. Qvarnstrom, T. Benedict and S. Montgomery, Centers for Disease Control and Prevention, Atlanta, GA

Presenter: Yvonne Qvarnstrom, Centers for Disease Control and Prevention, Division of Parasitic Diseases and Malaria, Parasitic Diseases Branch, Atlanta, GA, bvp2@cdc.gov

Poster 11M

Multiplex Molecular Assays to Improve Workflow and Performance for Detecting and Subtyping *Haemophilus influenzae* and *Neisseria meningitidis*

D. Reding, A. Strain, B. Craft, J. Dale and P. Snippes, Minnesota Public Health Laboratory, St. Paul, MN

Presenter: Desiree Reding, Minnesota Public Health Laboratory, St. Paul, MN, desiree.reding@icloud.com

Poster 12M

Multicenter Evaluation and Validation of a Customized MIC Panel for Antimicrobial Susceptibility Testing of *Mycobacterium tuberculosis*

D. Kohlerschmidt¹, A. Fiero¹, P. Valois², B. Jones², V. Escuyer¹, Marie-Claire Rowlinson¹;

¹Wadsworth Center, Albany, NY, ²Florida Bureau of Public Health Laboratories, Jacksonville, FL

Presenter: Marie-Claire Rowlinson, Wadsworth Center, NYSDOH, Albany, NY, marie-claire.rowlinson@health.ny.gov

Poster 13M

Comparison of Enzyme-linked Immunosorbent Assays for the Diagnosis of Dengue Virus Infections

A.K. Gebhardt¹, O. Klemens¹, M. Sabalza², K. Stiba¹, S. Saschenbrecker¹, K. Steinhagen¹;

¹Institute for Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG, Lübeck, Germany, ²EUROIMMUN US, Mountain Lakes, NJ

Presenter: Maite Sabalza, EUROIMMUN US, Mountain Lakes, NJ, maite.sabalza@euroimmun.us

Poster 14M

Development of a Novel NS1-based ELISA for the Detection of Specific IgG Antibodies against Japanese Encephalitis Virus

M. Sabalza¹, M. Pollmann², O. Klemens², J.M. Klemens², S. Saschenbrecker², K. Steinhagen²;

¹EUROIMMUN US, Mountain Lakes, NJ, ²Institute for Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG, Lübeck, Germany

Presenter: Maite Sabalza, EUROIMMUN US, Mountain Lakes, NJ, maite.sabalza@euroimmun.us

Poster 15M

Comparison of Diagnostic Performance of Two *Aspergillus* Antigen ELISAs

K. Hoffmann¹, P. Rosenstock¹, V. Borchardt-Lohölter¹, K. Dichtl², U. Seybold³, S. Ormanns⁴, H.

Horns⁵, J. Wagener^{2,6,7}, M. Sabalza⁸ and V. Herbst¹; ¹Institute of Experimental Immunology,

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Presenter: Maite Sabalza, EUROIMMUN US, Mountain Lakes, NJ, maite.sabalza@euroimmun.us

Poster 16M**Sensitive Detection of Antibodies in Patients with Acute *Coxiella burnetii* Infection**

B. Menge¹, J.M. Klemens¹, J. Mentz¹, K. Dieckmann¹, S. Saschenbrecker¹, K.-H. Tran², M. Hetherington³, M. Sabalza⁴, K. Steinhagen¹; ¹Institute for Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG, Lübeck, Germany, ²ESL Biosciences Australia (2012), ³Department of Immunology, QML Pathology, Brisbane, Australia, ⁴EUROIMMUN US, Mountain Lakes, NJ

Presenter: Maite Sabalza, EUROIMMUN US, Mountain Lakes, NJ, maite.sabalza@euroimmun.us

Poster 17M**Novel ELISA Based on Purified and Recombinant Antigens from *Toxocara canis* Exhibits a High Diagnostic Sensitivity**

J. Schaefer¹, B. Menge¹, K. Stiba¹, M. Sabalza², J. Dibbern¹, V. Borchardt-Lohölter¹, K. Steinhagen¹, W. Schlumberger¹; ¹Institute of Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG, Lübeck, Germany, ²EUROIMMUN US, Mountain Lakes, NJ

Presenter: Maite Sabalza, EUROIMMUN US, Mountain Lakes, NJ, maite.sabalza@euroimmun.us

Poster 18M**Description of a Custom Linux Workflow for Targeted Amplicon Deep Sequencing**

B. Matlock, B. Watson, M. Neja, D. Jacobson, J. Barratt and Y. Qvarnstrom, Centers for Disease Control and Prevention, Division of Parasitic Diseases and Malaria, Parasitic Diseases Branch, Atlanta, GA

Presenter: Joel Barratt, Centers for Disease Control and Prevention, Atlanta, GA, nsk9@cdc.gov

Poster 19M**Optimization and Verification of an Automated Analyte-specific Reagent Assay for *Mycoplasma genitalium* Macrolide Resistance Detection in Primary Clinical Specimens**

E. Munson¹, A. Zapp¹, S. Lavey², H. Russell¹, K. Munson³; ¹Marquette University, Milwaukee, WI, ²Carleton University, Ottawa, ON, Canada, ³Ascension Wisconsin, Milwaukee, WI

Presenter: Erik Munson, Marquette University, Milwaukee, WI, erik.munson@marquette.edu

Poster 20M**Evaluation of Updated Aptima Combo 2 Assay in a High-prevalence United States Sexually-transmitted Infection Community**

M. Khubbar¹, Z. Netterfield-Amezquita¹, C. Ahrenhoerster¹, K. Akinyemi¹, A. Bauer¹, E. Munson²; ¹City of Milwaukee Health Department, Milwaukee, WI, ²Marquette University, Milwaukee, WI

Presenter: Erik Munson, Marquette University, Milwaukee, WI, erik.munson@marquette.edu

Poster 21M

Detection of Acute HIV-1 Infection in a 16-Sample Pool Using the Aptima HIV-1 Quant Dx Assay

M. Shakirzyanova, R. Fowler, A. Khan, T. Ghattas and J. Fu, New York City Public Health Laboratory, NY, NY

Presenter: Madina Shakirzyanova, New York City Public Health Laboratory, NY, NY, shakirzyanova@health.nyc.gov

Poster 22M

Evaluation of Analyte Specific Reagents for Molecular Detection of Macrolide Resistance in *Mycoplasma genitalium*

O.O. Soge¹, E. Wakatake¹, G. Wood¹, E. Enemu², G. Masinde², M. Golden¹, L. Manhart¹; ¹University of Washington, Seattle, WA, ²San Francisco Public Health Laboratory, San Francisco, CA

Presenter: Olusegun Soge, University of Washington, Seattle, WA, sogeo@uw.edu

Poster 23M

Interlaboratory Comparison Exercise (ILC) of SARS-CoV-2 Molecular Detection Method Used by Veterinary Diagnostic Laboratories

K. Deng¹, S. Nemser², K. Frost³, L. Goodman⁴, H. Ip⁵, M. Killian⁶, J. Ulaszek⁷, S. Kiener¹, M. Kmet¹, S. Uhlig³, K. Hettwer³, B. Colson³, K. Nichani³, A. Schlierf³, A. Tkachenko², M. Miller², R. Reddy², G. Tyson²; ¹Center for Food Safety and Nutrition, FDA, ²Center for Veterinary Medicine, FDA, ³QuoData – Quality & Statistics, ⁴College of Veterinary Medicine, Cornell University, ⁵National Wildlife Health Center, U.S. Geological Survey, ⁶National Veterinary Services Laboratory, National Animal and Plant Health Inspection Service, USDA, ⁷Institute for Food Safety and Health, Illinois Institute of Technology

Presenter: Megan Miller, FDA, megan.miller@fda.hhs.gov

Poster 24M Withdrawn

Poster 25M

An Automated High-Throughput Extraction and Real-Time PCR Solution for Rapid Monkeypox Detection

M. Veling¹, P. Xie¹, G. Flippov¹, E. Dougherty¹, A. Paniz-mondolfi², J. Ramirez Gonzalez², R. Banu², P. Shrestha², B. Liggay², C.Y. Wang¹, Y. Tong¹; ¹PerkinElmer Health Sciences, Inc., Waltham, MA, ²Icahn School of Medicine at Mount Sinai, New York City, NY

Presenter: Macy Veling, PerkinElmer Health Sciences, Inc., macy.veling@perkinelmer.com

Global Health/One Health (posters 26M–31M)

Poster 26M

Approaches for Improving the Turnaround Time for Viral Load Testing Services in the Eastern Province of Zambia

L. Sichalwe¹, G. Zulu³, G. Mwakanandi², W. Miyanda², M. Mwanza⁴, C. Kabwe², S. Charles³, G. Mpumba Mukosa³, C. Phiri¹, W. Ranjit⁴; ¹Association of Public Health Laboratories, ²Zambia Ministry of Health — Pathology and Laboratory Services, ³Zambia Ministry of Health — Clinical Care Services, ⁴The Centre for Infectious Disease Research in Zambia — Lab Innovation for Excellence

Presenter: Lugard Sichalwe, Association of Public Health Laboratories Zambia, lugard.sichalwe@zmb.aphl.org

Poster 27M Withdrawn

Poster 28M

Centralizing and Reporting AMR Data in Ethiopia

E. Mekonnen¹, G. Alebachew², H. Moges³, S. Young³, R. Kakkar³; ¹APHL Ethiopia Office; ²Ethiopian Public Health Institute, Association of Public Health Laboratories, Silver Spring, MD

Presenter: Hewan Moges, APHL, hewan.moges@aphl.org

Poster 29M

Genetic Characterization of *Strongyloides fuelleborni* Infecting Free-ranging African Vervets (*Chlorocebus aethiops sabaeus*) on the Caribbean island of St. Kitts

T. Richins¹, S. Sapp¹, J. Ketzis¹, A.L. Willingham², S. Mukaratirwa², Y. Qvarnstrom¹, J. Barratt¹; ¹Centers for Disease Control and Prevention, Atlanta, GA, ²Ross University, Barbados

Presenter: Travis Richins, Centers for Disease Control and Prevention, Atlanta, GA, of09@cdc.gov

Poster 30M

The Prevalence of Areca Nut Consumption and Self-Reported Oral Cancers Among Rural Communities In Karachi, Pakistan: A Community-Based Cross-Sectional Survey

L. Saleem, L. Zajac and C. Collins; Icahn School of Medicine at Mount Sinai, New York City, NY

Presenter: Laraib Saleem, Icahn School of Medicine at Mount Sinai, New York, NY, Laraibsaleem718@gmail.com

Poster 31M

Improving HIV Viral Load Coverage Through System Strengthening, Data Audit and Triangulation in Lusaka Province Zambia

M.D. Hamomba¹, D. Moyo², Lance Yumba³, Juliana Kinkese, Francis M Mwape, Mulele Kalima, Consity Mwale, Clement Phiri, Kasimona Sichela, Ranjit Warrier; ¹Association of Public Health Laboratories Zambia, ²Zambia Ministry of Health — Lusaka Provincial Health Office, ³Centre for Infectious Disease Research in Zambia — Lab Innovation for Excellence

Presenter: Milimo Hamomba, Association of Public Health Laboratories Zambia, delhan.hamomba@zmb.aphl.org

Biosafety and Biosecurity (posters 01T–02T)

Poster 01T

Zambia Waste Management Strengthening Project Implementation for Public Health Facilities Supporting Conventional Viral Load and Early Infant Diagnostic Testing Services

S. Snyder¹, C. Phiri², R. Timperi¹, V. Kadima², C. Kaziya³; ¹Association of Public Health Laboratories, Silver Spring, MD, ²Association of Public Health Laboratories Zambia, ³Zambia Ministry of Health

Presenter: Lugard Sichalwe, Association of Public Health Laboratories Zambia, lugard.sichalwe@zmb.aphl.org

Poster 02T

Effective Communication with Laboratory Professionals During an Emergency Response

M. Reagan, Centers for Disease Control and Prevention, Atlanta, GA

Presenter: Alexandra Mercante, Centers for Disease Control and Prevention, Atlanta, GA, wip2@cdc.gov

Emerging Technologies (posters 03T–08T)

Poster 03T

Comparison of Four Commercial Kits to Extract Bacterial Chromosome and Plasmid DNA for Long-read Sequencing

P. Sawatwong¹, W. Kruasuwan², T. Wongsurawat², P. Jenjaroenpun², B. Skaggs¹; ¹Centers for Disease Control and Prevention, Thailand, ²Siriraj Hospital, Mahidol University, Thailand

Presenter: Pongpun Sawatwong, Centers for Diseases Control and Prevention, hps5@cdc.gov

Poster 04T

Strengthening Georgia Public Health Laboratory Surge Capacity for Flu Surveillance Using Standard BioTools Biomark™ HD Array Platform

S. Talekar, O. Mazurova, C. Umunna, S. Demisse, R. Modi, M. Rowe, T. Rivers, T. Simmons, D. Miller, S. Reeves, K. Kilgour, H. Ghuman, E. Franko, N. Balakrishnan and T. Parrott, Georgia Public Health Laboratory, Decatur, GA

Presenter: Nandhakumar Balakrishnan, Georgia Public Health Laboratory, Decatur, GA, nandhakumar.balakrishnan@dph.ga.gov

Poster 05T**Detection of SARS-CoV-2 in Municipal Wastewater Using Stilla Naica® Digital PCR Platform as Part of Promega Enviro® SARS-CoV-2 WBE Workflow**

N. Feirer, J. Thiede, S. Hermanson, J. Cali, S. Moorji and S. Mondal, Promega Corporation, Madison, WI

Presenter: Nathan Feirer, Promega Corporation, Madison, WI, nathan.feirer@promega.com

Poster 06T**Fully Automated Isolate Whole Genome Sequencing Platform to Enable Agnostic Characterization and Real-time Outbreak Investigations of Foodborne Pathogens**

R.G. Kim, S. Hoeffel, T. Cheung, M. Deiparine, M. Balamotis, R. Casini, D. Tran, A. Paropkari, H. Gao, A. Campos, J. Maloney, A. Singh, A. Lin, A. Jorjorian, A. Allred, S. Shokralla, A. Haddad, R. Khaksar and P. Thwar, Clear Labs, San Carlos, CA

Presenter: Rick Kim, Clear Labs, San Carlos, CA, rick.kim@clearlabs.com

Poster 07T**Standardizing Sample Preparation and Clarification Methods for Wastewater Surveillance Monitoring of SARS-CoV-2**

D. Glatts, L. Dettinger, J. Shah and D. Xia, Pennsylvania Department of Health, Bureau of Laboratories, Exton, PA

Presenter: Dongxiang Xia, Pennsylvania Department of Health Bureau of Laboratories, Exton, PA, dxia@pa.gov

Poster 08T**Accessible, Effective and Rapid: Online COVID-19 Education and Training for Laboratory Professionals**

K. Winter¹, J. Gatewood¹, E. Kannan², H. Buckhout², R. Ned-Sykes; ¹Centers for Disease Control and Prevention, Atlanta, GA, ²Guidehouse, Fountain Hills, AZ

Presenter: Johanzynn Gatewood, Centers for Disease Control and Prevention, Atlanta, GA, ocs6@cdc.gov

Outbreaks and Surveillance (posters 09T–33T)**Posters 09T–10T Withdrawn****Poster 11T****SARS-CoV-2 and Monkeypox Next-Generation Sequencing: Technical Workflow Development, Analysis and Reporting from Dallas County Public Health Laboratory**

F. Kabir, E. Plaisance, M. Ty, K. Cirrincione, A. Marfo, D. Esquivel, R. Busse, J. Broadnax, D. Silva, V. Amadi, J. Stringer and L. Short, Dallas County Health and Human Services, Dallas, TX

Presenter: Farruk Kabir, Dallas County Health and Human Services, Dallas, TX, farruk.kabir@dallascounty.org

Poster 12T

Incidence of Co-infections of SARS-CoV-2, Influenza A and Other Respiratory Pathogens from 2021–2022

B. Parchment and J. Alexander, New Hampshire Public Health Laboratories, Concord, NH

Presenter: Jessica Alexander, New Hampshire, Public Health Laboratories, Concord, NH, jessica.l.alexander@dhhs.nh.gov

Poster 13T

Utilizing Long-Read Sequencing to Examine blaNDM-5 Plasmid Transmission Dynamics in a Congregate Companion Animal Facilities

M. Anacker, M. Plumb, J. Dale, J. Garfin, J. Kaiyalethe, B. Craft, A. Beaudoin and P. Snippes, Minnesota Department of Health, St. Paul, MN

Presenter: Melissa Anacker, Minnesota Department of Health, St. Paul, MN, melissa.anacker@state.mn.us

Poster 14T

First Report on the Emergence of Carbapenamase-producing Enterobacterales (CRE) Harboring blaNDM-7 in the State of Georgia

N. Balakrishnan¹, T. Kiryutina¹, G. Tiga¹, R. Turner¹, J. Edwards¹, J. Hammond¹, C. Venable¹, S. Woods¹, V. Reddy¹, T. Rivers¹, J. Negley¹, M. Anderson², J. Wagner², M. Tobin-D'Angelo², J. Bahl³, L. Salvador³, G. Veytsel³, M. Connelly¹, E. Franko¹, T. Parrott¹; ¹Georgia Public Health Laboratory, Decatur, GA, ²Georgia Department of Public Health, Atlanta, GA, ³University of Georgia, Athens, GA

Presenter: Nandhakumar Balakrishnan, Georgia Public Health Laboratory, Decatur, GA, nandhakumar.balakrishnan@dph.ga.gov

Poster 15T

Genomic Diversity of New Delhi Metallo- β -lactamase (NDM)-Producing Carbapenem-resistant Enterobacterales in Georgia

T. Kiryutina¹, G. Tiga¹, R. Turner¹, J. Edwards¹, J. Hammond¹, C. Venable¹, S. Woods¹, V. Reddy¹, T. Rivers¹, J. Negley¹, M. Anderson², J. Wagner², M. Tobin-D'Angelo², J. Bahl³, L. Salvador³, G. Veytsel³, M. Connelly¹, E. Franko¹, T. Parrott¹, N. Balakrishnan¹; ¹Georgia Public Health Laboratory, Decatur, GA, ²Georgia Department of Public Health, Atlanta, GA, ³University of Georgia, Athens, GA

Presenter: Nandhakumar Balakrishnan, Georgia Public Health Laboratory, Decatur, GA, nandhakumar.balakrishnan@dph.ga.gov

Poster 16T

Public Health Laboratory COVID-19 Response: Development of Rapid COVID Testing Across New York City

S. Di Lonardo¹, R. Fowler², U. Siemietzki-Kapoor¹, J. Aracena¹, S. Hughes²; ¹New York City Department of Health and Mental Hygiene, New York, NY, ²New York City Public Health Laboratory, New York, NY

Presenter: Steve Di Lonardo, New York City Department of Health and Mental Hygiene, New York, NY, sdilonardo@health.nyc.gov

Poster 17T

Genomic Surveillance of Antimicrobial Resistant Pathogens in a Non-regional ARLN Laboratory

S. Dietrich, E. Burgess, K. McCullor and A. Miles-Jay, Michigan Department of Health and Human Services, Lansing, MI

Presenter: Stephen Dietrich, Michigan Department of Health and Human Services, Lansing, MI, dietrichs@michigan.gov

Poster 18T

Related *K. pneumoniae* Infections Exhibiting Distinct NDM Variants

L. Fink, L. Turner, R. St. Jacques, A. Hale and K. Gali, Virginia Division of Consolidated Laboratory Services, Richmond, VA

Presenter: Logan Fink, Virginia Division of Consolidated Laboratory Services, Richmond, VA, logan.fink@dgs.virginia.gov

Poster 19T

Enabling Confident Healthcare Decisions for SARS-CoV-2 Patients by Bridging Roche Antigen, Viral Load (PCR) and Antibody Tests (BRAVA): An Interim Analysis

B. Javed¹, S. Blosser¹, A. Kuchta¹, A. Groh², S. Ciesek², C. Dodoo¹, J. Canchola¹, R. Kammari¹, P. Moonsamy¹, M. Eckl¹, F. Baumkoetter¹, M. Vehreschild², A. Berger²; ¹Roche Diagnostics, Indianapolis, IN, ²Frankfurt University Hospital, Frankfurt, Germany

Presenter: Babar Javed, Roche Diagnostics, Indianapolis, IN, babar.javed@roche.com

Poster 20T

Unveiling the Causes of False Positive Non-Variola Orthopoxvirus PCR Results

L. Liu, B. Pope, M. Glazier and C. Grimes, Indiana Department of Health, Indianapolis, IN

Presenter: Lixia Liu, Indiana State Department of Health, Indianapolis, IN, lliu@isdh.in.gov

Poster 21T

Wastewater Surveillance of 180+ Bacteria, 50+ Fungi, 40+ Viruses and ~1,200 Antimicrobial Resistance Markers in Northern Nevada

L. Massic, B. Elam, A. Gorzalski and M. Pandori, Nevada State Public Health Laboratory, Reno, NV

Presenter: Lauryn Massic, Nevada State Public Health Laboratory, Reno, NV, lmassic@unr.edu

Poster 22T

Using Unique Molecular Identifiers to Increase the Accuracy of Oxford Nanopore Technologies' MinION Sequencing for Foodborne Enteric Surveillance

R.G. Paradis^{1,3}, M. Vasquez^{1,3}, K. Thakor^{1,3}, Y. Gao^{1,2}, K.C. Dillon^{1,3}, E. Trees¹, B. Tolar¹, M. Schroeder¹, R.L. Lindsey¹, A.D. Huang¹, H.A. Carleton¹, A.J. Williams-Newkirk¹; ¹Enteric Diseases Laboratory Branch, Centers for Disease Control and Prevention, Atlanta, GA, ²ASRT, Inc., Atlanta, GA, ³Oak Ridge Institute for Science and Education, US Department of Energy, Oak Ridge, TN

Presenter: Ryan Paradis, Centers for Disease Control and Prevention, Atlanta, GA, qxy2@cdc.gov

Poster 23T**Automated Genomic Surveillance in Wyoming with Microsoft Azure and Nextflow**

R.A. Petit, T. Fearing, C. Rowley, A. Norberg, J. Mildenerberger, R. Christensen and J.M. Reed, Wyoming Public Health Laboratory, Cheyenne, WY

Presenter: Robert Petit, Wyoming Public Health Laboratory, Cheyenne, WY, robert.petit@wyo.gov

Poster 24T**Scaling Pathogen Genomics and Automated Reporting in California with Terra.bio and Looker**

E. Smith¹, K. Libuit¹, F. Ambrosio¹, C. Kapsak¹, M. Scribner¹, S. Wright¹, J. Bell², E. Baylis², S. Messenger², J. Hacker², C. Morales², D. Wadford², J. Sevensky¹; ¹Theiagen Genomics, Highlands Ranch, CO, ²California Department of Public Health, Richmond, CA

Presenter: Emily Smith, Theiagen Genomics, Highlands Ranch, CO, emily.smith@theiagen.com

Poster 25T**Development of a Rapid, Uniform, State-wide Surveillance Program for COVID Variants in New York State Wastewater**

K. St. George¹, D. Lamson¹, J. Plitnick¹, V. Schnurr¹, L. Rickerman¹, S. Griesemer¹, Y. Ahmed², C. Durham², D. Hill², D. Lang¹, L. David²; ¹Wadsworth Center, New York State Department of Health, Albany, NY, ²Syracuse University, Syracuse, NY

Presenter: Kirsten St. George, Wadsworth Center, NYSDOH, Albany, NY, kirsten.st.george@health.ny.gov

Poster 26T**Expanding Laboratory Surveillance of Enterotoxigenic *Escherichia coli* in Minnesota**

E.R. Verbrugge, E. Cebelinski and J. Haan, Minnesota Department of Health, St. Paul, MN

Presenter: Emily Verbrugge, Minnesota Department of Health, St. Paul, MN, emily.verbrugge.contractor@state.mn.us

Poster 27T**A Simple and Robust Workflow for Detecting Monkeypox Virus from Skin Swabs and Wastewater**

S. Teter and B. Hook, Promega Corporation, Madison, WI

Presenter: Melanie Preston, Promega Corporation, Madison, WI, melanie.preston@promega.com

Poster 28T**Long-read Sequencing Enables In-depth Characterization of Plasmids Encoding KPC-2 in *Citrobacter freundii* Outbreak**

E.L. Young, J.C. Rogers, J. Hergert, R. Casey, L. Rider, J. Mongillo and K. Oakeson, Utah Department of Health and Human Services, Taylorsville, UT

Presenter: Erin Young, Utah Public Health Laboratory, Taylorsville, UT, eriny@utah.gov

Poster 29T**Genomic Surveillance Identifies SARS-CoV-2 Transmission Patterns in Local University Populations, Wisconsin, USA, 2020–2022**

A. Ramaiah, M. Khubbar, A. Bauer, K. Akinyemi, J. Weiner and S. Bhattacharyya, City of Milwaukee Health Department, Milwaukee, WI

Presenter: Arunachalam Ramaiah, City of Milwaukee Health Department, Milwaukee, WI, arama@milwaukee.gov

Poster 30T**Broad, Genomic AMR Surveillance with an Efficient, Probe-capture NGS Panel**

J. Bierstedt, N. Shah, M. Roos, S. Kuersten, K. Broadbent and R. Schlaberg, Illumina, San Diego, CA

Presenter: Robert Schlaberg, Illumina, San Diego, CA, schlaberg@gmail.com

Poster 31T**Pennsylvania Department of Health Bureau of Laboratories Mobilization of Resources to Respond to the COVID-19 Pandemics**

L. Dettinger, T. Bannon, C. Branton, J. Brooks, K. Premkumar, K. Xia, Pennsylvania Department of Health, Bureau of Laboratories, Exton, PA

Presenter: Dongxiang Xia, Pennsylvania Department of Health, Bureau of Laboratories, Exton, PA, dxia@pa.gov

Poster 32T**Broad Viral Genomic Surveillance Using a Single Hybrid-capture Enrichment Panel**

N. Soffer, J. Koble and Y. Lin, Illumina, San Diego, CA

Presenter: Nitzan Soffer, Illumina, Inc., San Diego, CA, nsoffer@illumina.com

Poster 33T**Integrating Next Generation Sequencing Results into the Laboratory Information System to Improve Reporting for Surveillance and Outbreak Investigation**

K. Musser, T. Halse, M-C. Rowlinson, K. Mitchell, E. Nazarian, P. Lapierre, W. Haas and C. Prussing, Wadsworth Center, New York State Department of Health, Albany, NY

Presenter: Kimberlee Musser, Wadsworth Center, NYSDOH, Albany, NY, kimberlee.musser@health.ny.gov



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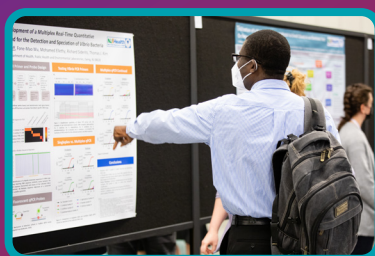
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